



**ASTANA EXPO 2017
REPUBLIC OF KAZAKHSTAN
2nd Edition
PARTICIPATION GUIDE**

**International Participants Meeting
February 2016
Astana, Kazakhstan
www.expo2017astana.com**

BRIEF OVERVIEW

DOCUMENT TITLE:

Second Edition of Astana EXPO 2017 Participation Guide

TITLE AND TYPE OF EXPO:

EXPO 2017 International Recognised Exhibition in Astana
Abbreviated title: Astana EXPO 2017

DURATION:

from 10 June to 10 September 2017

LOCATION:

Astana, the capital of the Republic of Kazakhstan

SITE AREA:

174 hectares - Exhibition Complex

(25 hectares - Exhibition site
149 hectares - Exhibition precinct: services, facilities and other developments)

THEME AND SUB-THEMES

Theme: Future Energy

Sub-themes: - 1. Reducing CO2 emissions
2. Living Energy Efficiency
3. Energy for All

VISITORS:

More than five million visits estimated



INFORMATION FOR PARTICIPANTS:

This Participation Guide are a working document. Additional information as well as an updated version of these Guidelines will be presented in the course of preparation for Astana EXPO 2017. This edition is an intermediate version of the final Guide.

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OPENING STATEMENT

Ladies and Gentlemen,

I am glad to welcome you on behalf of National Company Astana EXPO 2017.

The International Recognised Exhibition EXPO 2017 held in Astana is one of Kazakhstan's key national projects. The initiative for organising such a grand event in our capital city was launched by the President of the Republic of Kazakhstan, Nursultan Nazarbayev.

Over the past year, our company has made significant progress in preparing for the exhibition. Construction of the Astana EXPO 2017 venues is proceeding according to the plan. A growing number of states have confirmed their participation. These include Germany, France, Russia, Turkey, India, China, Japan and many others.



In addition, we have set the most ambitious objectives for ourselves, and we have every reason to be confident in their successful implementation.

Moreover, holding exhibitions also has a positive impact on both the city and the country where they take place. They promote investments and facilitate the development of construction and industry. New unique facilities are built that attract tourists from different countries. Therefore, our main task now is the adequate preparation of Kazakhstan for a large-scale international event: Astana EXPO 2017.

The second edition of the Participation Guide that you have in your hands is the continuation of effective work carried out by the National Company "Astana EXPO 2017", as the Organiser of the exhibition.

I would like to express my deep gratitude to our partners from the Bureau of International Exhibitions and personally the Secretary General, Vicente Loscertales, for their constant support and advice. Close cooperation lies ahead, therefore I think that this document will facilitate our fruitful partnership.

I would like to take this opportunity to invite you to take part in Astana EXPO 2017. I am confident that Kazakhstan will be an active platform to showcase the world's leading inventions in the field of energy efficiency and green technologies.

*Yours sincerely,
Chairman of the Management Board
JSC "National Company "Astana EXPO 2017"
Akhmetzhan Yessimov*

GENERAL INFORMATION





1. INTRODUCTION

1.1. CHRONOLOGY

- On 22 November 2012, the capital of Kazakhstan, Astana, was chosen to host the International Recognised Exhibition EXPO 2017. 103 countries voted for Astana.
- On 22-23 May 2013 at the VI Astana Economic Forum, the Organiser held two panel sessions on alternative energy supported by Kazakhstan Oil and Gas and Energy Complex Association, "KAZENERGY"
- On 1 June 2013, the official website of Astana EXPO 2017 was launched
- On 15 June 2013 in the town of Savoie (France), the first bike ride on vehicles powered by solar panels commenced. The event was called "The Sun Trip: on the road to EXPO 2017 Astana"
- On 22 July 2013, the logo of EXPO 2017 Astana was chosen by popular vote: "Wind energy"
- On 23 July 2013, Astana welcomed Belgian Raf Van Hulle as the first finisher of the international project "The Sun Trip: on the road to Astana EXPO 2017".
- On 30 September 2013, Astana hosted the International Conference on the Green Bridge Partnership Program and the International Recognised Exhibition EXPO 2017, organised by the Ministry of Environmental Protection of the Republic of Kazakhstan in partnership with the United Nations Development Programme
- On 8 October 2013, Astana hosted debates "Future Energy: Challenges and New Opportunities" arranged by the Organisers and the Educational Program "KAZENERGY"
- On 22 October 2013, the winner of the International chartered architectural competition for the best sketch idea of the Exhibition Complex of Astana EXPO 2017, including the facilities that will be the symbol of the exhibition, was announced. It was Adrian Smith + Gordon Gill Architecture
- On 3 December 2013, the Law "On amendments and additions to some legislative acts of Kazakhstan regarding the issues of organising and holding the International Recognised Exhibition EXPO 2017 in Astana" was adopted
- On 20-22 January 2014, the Organiser presented the International Recognised Exhibition EXPO 2017 Astana and participated in panel sessions at the World Summit "Future Energy" in Abu Dhabi (United Arab Emirates)

- On 5-9 March 2014, the Organiser presented the International Recognised Exhibition EXPO 2017 Astana in Berlin (Germany) at the International Travel Trade Show ITB Berlin 2014
- On 24 April 2014, the Registration Dossier for recognition of the International Recognised Exhibition EXPO 2017 Astana was approved at the meeting of the Executive Committee of the Bureau of International Exhibitions in Paris (France)
- On 24 April 2014, the President of the Republic of Kazakhstan N.A. Nazarbayev laid a capsule in Astana on the Site of Astana EXPO 2017, officially starting the construction works
- On 21-23 May 2014, the Organiser held a number of activities on “Future Energy” within the framework of the VII Astana Economic Forum
- On 11 June 2014, the International Recognised Exhibition EXPO 2017 Astana was officially recognized and received the flag of the Bureau of International Exhibitions at the 155th General Assembly of the Bureau of International Exhibitions in Paris (France)
- On 15-19 June 2014, the Organisers together with the Association “KAZENERGY” and oil companies of Kazakhstan took part in the 21st World Petroleum Congress in Moscow (Russia), which is held every three years under the aegis of the World Petroleum Council
- On 31 July 2014, the Organiser started issuing invitations to states and international organisations to participate in the International Recognised Exhibition EXPO 2017 Astana
- On 22-23 October 2014, Astana hosted the first Meeting of the International Participants of the Recognised Exhibition EXPO 2017 Astana
- On 23-24 October 2014, the Organiser held the International Forum “Future Energy: Reducing CO₂ Emissions” in Astana
- On 21-24 January 2015, the Organiser took part in the World Economic Forum in Davos (Switzerland) and presented the International Recognised Exhibition Astana EXPO 2017
- On 14-17 March 2015, the Organiser presented the International Recognised Exhibition EXPO 2017 Astana at the 10th International Travel Fair “Intourmarket” in Moscow (Russia)
- On 14-16 April 2015, Beijing (China) hosted the 11th China Outbound Travel & Tourism Market (COTTM), where the International Recognised Exhibition EXPO 2017 Astana was presented
- On 22 May 2015, the Organiser took part in a panel session on “EXPO 2017 - Energy for Sustainable Development” at the VIII Astana Economic Forum
- On 11-14 June 2015, the Organiser presented Astana EXPO 2017 at the 29th International Travel Expo (ITE) in Hong Kong (China)
- On 27 June 2015, the World Exhibition EXPO 2015 Milano hosted the National Day of the Republic of Kazakhstan, which saw participation of the Head of State and presentation of the International Recognised Exhibition Astana EXPO 2017

1.2. Name

The official name of the exhibition presented in the General Regulations: International Recognised Exhibition EXPO 2017 Astana.

Approved abbreviations of the event name: Exhibition or Astana EXPO 2017.

Astana EXPO 2017 is a global-scale event regulated by the Bureau of International Exhibitions and held in compliance with the Convention Relating to International Exhibitions (22 November 1928, Paris).

1.3. Goal and objectives

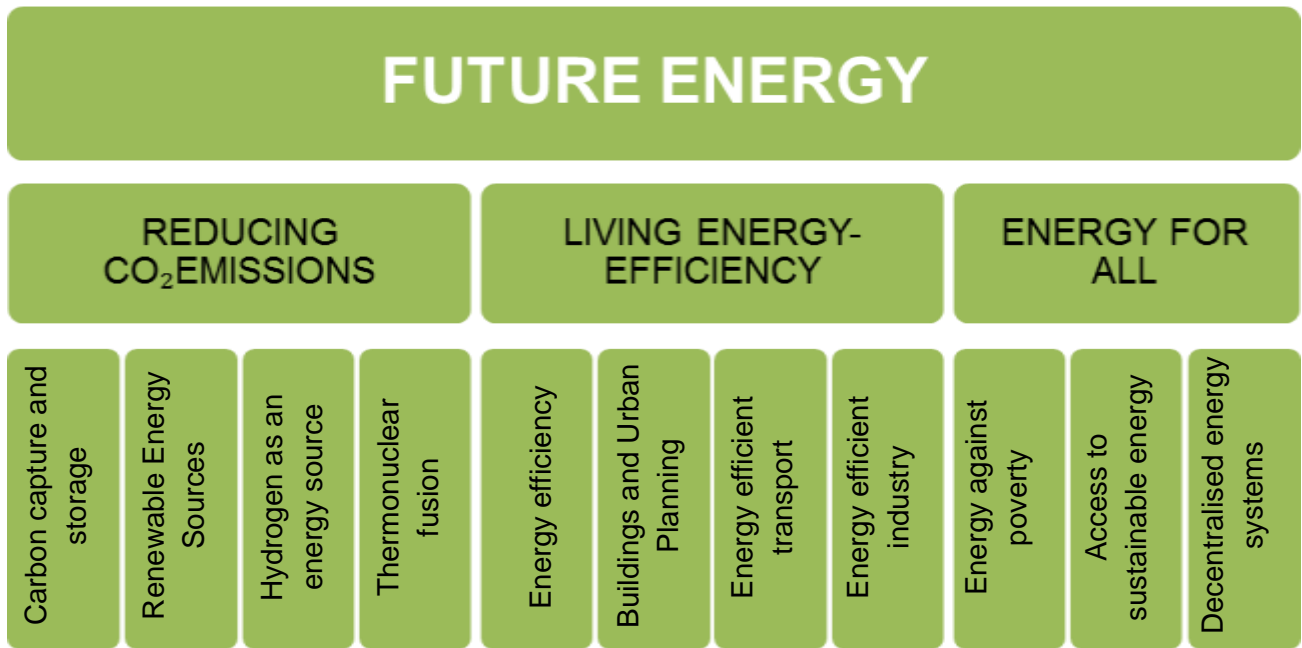
By choosing Future Energy as the relevant theme of our time and holding Astana EXPO 2017, the Organiser is planning to inform the international community at national, corporate and individual levels about the need for policies and decisions aimed at promotion of sustainable energy. Only joint efforts can provide the best model of the future energy for our planet for many centuries to come.

Therefore, Future Energy as the Exhibition theme has been assigned the following key objectives:

- Promoting the best international practices in the field of sustainable energy development
- Promoting scientific and technological development in the field of clean energy
- Exchanging knowledge about the future energy with all stakeholders: Exhibition participants, academic institutions and the scientific community, industrial enterprises of civil society and other institutions
- Raising awareness of the opportunities, challenges and demand for the future energy

- Promoting education, training, furthering knowledge through art, culture and entertainment
- Establishing an innovative platform for distribution of modern technology and knowledge aimed at creating green, healthy and sustainable future
- Positioning Kazakhstan as a country with a rapidly developing economy, committed to a sustainable development model

1.4. Theme



1.5. LOGO

The logo of Astana EXPO 2017, "Wind Energy", symbolizes interaction of natural elements and is framed by the most recognizable symbol of alternative energy - the wind generator. The exhibition logo was chosen by the people of Kazakhstan in July 2013.



To use the logo, it is necessary to leave space as big as two petals on each side.



The logo can be used on a black or white background



1.6. MASCOT

The Mascots of Astana EXPO 2017 are in line with the theme of the logo which embodies the energy of the sun, water and land, which all together represent Future Energy. The Mascot of Astana EXPO 2017 will not be just a symbol of the exhibition, but also a symbol of the host country.

Saule

Kuat

Moldir



Saule embodies the energy of the sun that warms and casts light on our planet.
Kuat symbolises green energy: the Earth's vigour, the nature's power and beauty.
Moldir embodies the energy of water as the main source of life.

All mascots reflect the features of the Kazakh national culture.

1.7. VISITORS

The number of visits is expected to exceed 5 million.

The number of visitors is expected to exceed 2 million:

- On an average day, the number will reach 55,301 visitors
- on a peak day - 110,602 visitors

Visitors are expected to come from:

- 85% from Astana and other regions of Kazakhstan
- 15% from abroad

This indicator is higher than for similar exhibitions owing to Kazakhstan's increasing influence as a centre for business and tourism in Central Asia. A significant number of foreign tourists are expected from neighboring countries and participating states.

According to the most recent poll findings, there is a positive growth trend in the expected number of visitors.

Awareness Level:

- rose from 63% to 78% for local respondents
- reached 53% for foreign respondents

Astana EXPO 2017 is set to be visited:

- by 51% of local respondents, a rise of 16% on the previous indicator
- by 18% of foreign respondents, a rise of 6% on the previous indicator

Of those, more than half are planning to visit the Exhibition together with their families and relatives. On the whole, respondents are planning to spend more than 2 days in the city.

1.8. DATES AND OPENING HOURS

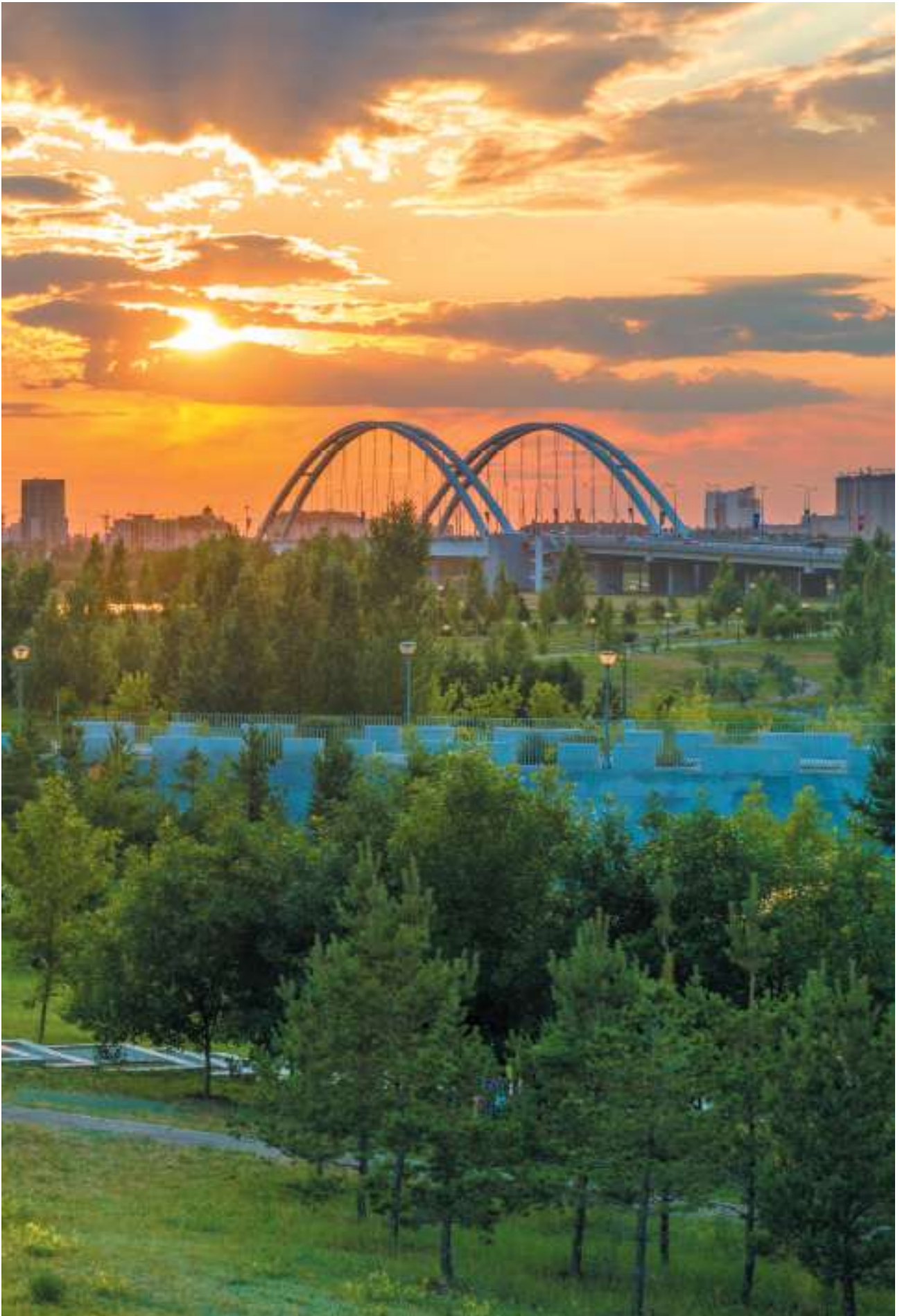
The Exhibition will run for 3 months: from 10 June (Saturday) 2017 until 10 September (Sunday) 2017. Duration: 93 days.

Timetable of the Exhibition:

- The Exhibition is open for visitors from 9:00 until 01:00, the last entrance for visitors is at 23:00
- Evening events: 18:00 – 24:00

Pavilions Working Hours:

- from 09:30 until 21:30





2. ORGANISER

2.1. STATE SUPPORT

The Government of the Republic of Kazakhstan has taken on the responsibility for successful organising and holding the International Recognised Exhibition EXPO 2017 in Astana.

To ensure this, the President of the Republic of Kazakhstan issued Decree of 26 November 2012 to form a special **State Commission for preparation and holding of the International Recognised Exhibition EXPO 2017 Astana**.

Members of the State Commission are responsible for timely implementation of measures necessary for organisation of the exhibition.

The State Commission includes ministers and other officials. The Chairman of the State Commission is the Prime Minister of the Republic of Kazakhstan; he coordinates the activities of the Commission and informs the President of the Republic of Kazakhstan on the work completed.

The Prime Minister of the Republic of Kazakhstan has reiterated to the Bureau of International Exhibitions the guarantee given by the Government of Kazakhstan to ensure the success of the Exhibition.

In all matters relating to organisation and holding of the Exhibition, the Government of the Republic of Kazakhstan is presented by the Commissioner of the Exhibition. He is responsible for fulfilment of the commitments undertaken in relation to the BIE and exhibition participants.

First Deputy Minister of Foreign Affairs of the Republic of Kazakhstan, R.S. Zhoshybayev, was appointed the Exhibition Commissioner by the decree issued by the President of the Republic of Kazakhstan.

Prime Minister of the
Republic of
Kazakhstan



Prime Minister of the
Republic of
Kazakhstan

**Application letter for Recognition
of the International Specialized Exhibition Expo 2017 Astana**

Astana
December 7, 2013

Dear Mr. Vincente Loscertales

On behalf of the Government of the Republic of Kazakhstan I present my compliments to the Bureau of International Exhibitions and have the honor to request the recognition of the International Exhibition Expo 2017 Astana in accordance with the Article 6 of the Paris International Convention relating to International Exhibitions.

Herewith we enclose the documentation stated in Part II of the Regulations relating to the Procedures and Deadlines for Recognition of an Exhibition, as well as the drafts of General regulations and Special Regulations No 1 on the definition of the Exhibition theme and the means of its implementation by the Organiser and the participants, Special Regulations No 2 on the conditions for the participation of States, international organizations and private exhibitors, the Participation contract, Indemnities.

The Government of the Republic of Kazakhstan will assume the required measures for the successful hosting of the Expo 2017 Astana selected by the General Assembly of the BIE in its 152nd session on November 22nd, 2012. The Government of Kazakhstan grants the full guarantee and will abide by the provisions of Paris Convention relating to International Exhibitions, in accordance with Article 10, paragraph 2 of the above mentioned Convention.

The Government of the Republic of Kazakhstan avails itself of this opportunity to renew to the Bureau of International Exhibitions the assurances of its highest consideration.

Sincerely yours,

A handwritten signature in black ink, appearing to be 'S. Akhmetov', written in a cursive style.

Serik Akhmetov

**Mr. Vicente Loscertales
Secretary General
Bureau of International Exhibitions**

Paris

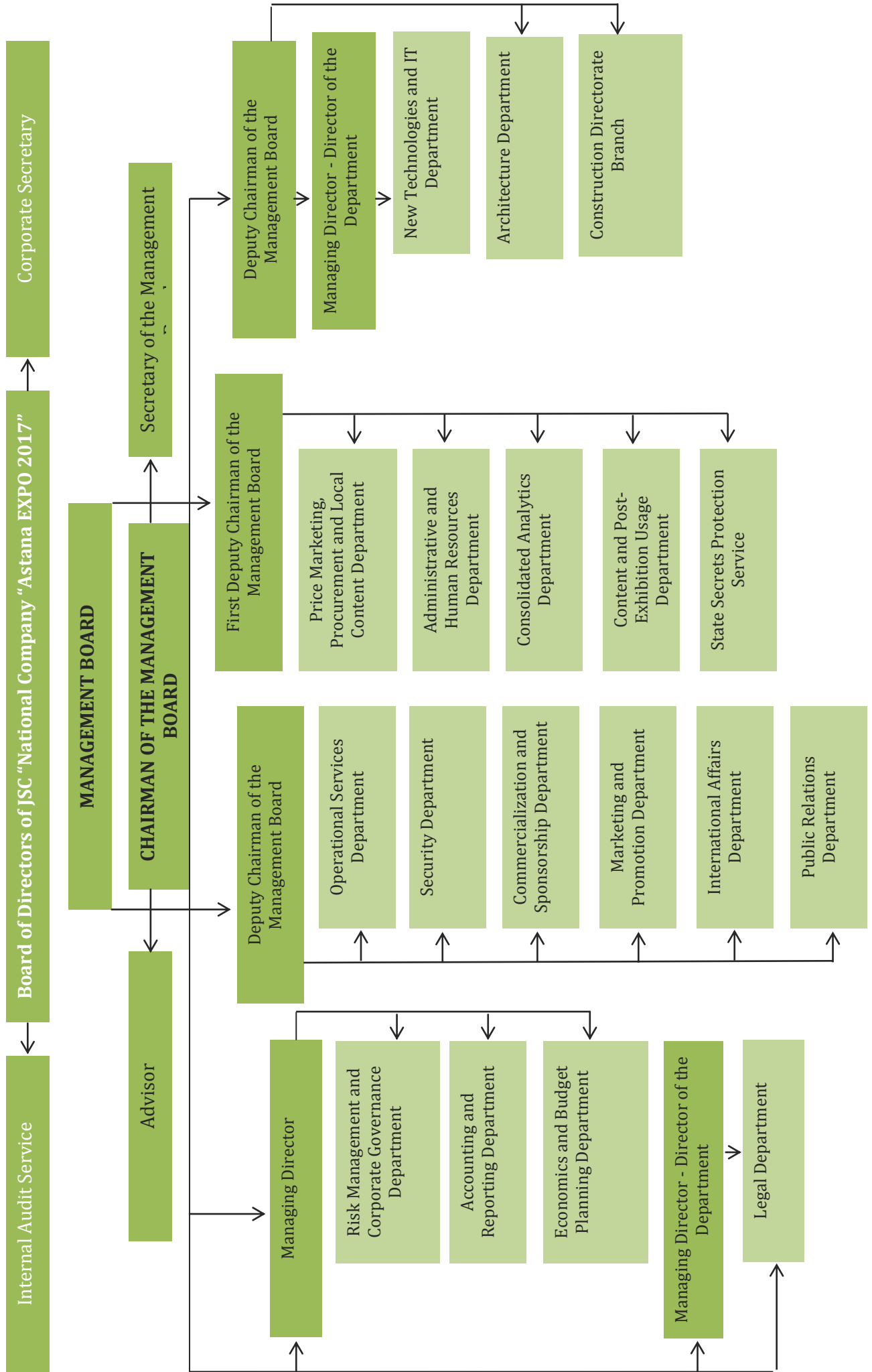
2.2. NATIONAL COMPANY

Joint-Stock Company “National Company “Astana EXPO 2017” (“**the Organiser**”) was established by the Resolution of the Government of the Republic of Kazakhstan No. 11 dated 15 January 2013 for organisation and holding of the Exhibition.

The sole shareholder of the Organiser is the Ministry of National Economy of the Republic of Kazakhstan. The Board of Directors is headed by the First Deputy Prime Minister of the Republic of Kazakhstan. Alongside with him, the membership of the Board of Directors comprises the Vice-Minister of National Economy, Chairman of the State Committee of State-owned Property and Privatization of the Ministry of Finance, independent directors and the Chairman of the Management Board of the Organiser.

A.S. Yessimov was appointed Chairman of the Management Board of the Organiser by decree of the President of the Republic of Kazakhstan on 9 August 2015. He previously held high-standing political positions and has a great experience in leadership roles.

2.2.1. ORGANISATIONAL STRUCTURE





3. ASTANA, THE HOST CITY

3.1. OVERVIEW

Astana has been the capital of Kazakhstan since 1997. From that time, the city has become the political, administrative, business and cultural centre of the country. The city is located on the border of the central and northern territories of Kazakhstan (Akmola Region) on the river Ishim. Total area of the city: 71.0 hectares.

Astana is a city of the future that not only accentuates a unique architectural style, but also the inherent openness and hospitality of the capital of Kazakhstan.



Figure: City plan of Astana

Legend:

■ The territory of Astana

CLIMATE

Astana has a moderate, extreme continental climate. Summer is long and dry, winter is

cold and long. The average annual temperature is 3.1°C. 300 mm of rainfall is recorded annually.

ASTANA'S CLIMATE													
Indicator	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec.	Year
Absolute maximum, °C	3.4	4.8	22.1	29.7	35.7	40.1	41.6	38.7	36.2	26.7	18.5	4.5	41.6
Average Maximum, °C	-13.6	-	-0.8	19.5	22.8	28.2	30.8	27.7	20.8	11.5	-2.0	-16.8	9.4
Average temperature, °C	-18.7	-	-5.0	11.7	15.9	21.7	24.3	20.9	14.0	6.1	-5.4	-20.8	3.675
Average minimum, °C	-22.7	-	-9.2	4.4	9.4	15.0	17.5	14.4	8.1	1.6	-8.6	-24.4	-1.6
Absolute minimum, °C	-51.6	-	-38	-	-	-1.5	2.3	-2.2	-8.2	-	-	-43.5	-51.6
Average monthly rainfall, mm.	2.4	17.4	27.1	19.6	13.8	21.3	60.0	16.1	11.8	35.1	42.7	27.0	295

During the running time of Astana EXPO 2017, from June to September, the average temperature will be 20°C with an average monthly rainfall of 27.3 mm.

3.2 GENERAL INFRASTRUCTURE

Astana has a modern urban infrastructure. It is one of Kazakhstan's main transport hubs served by an international airport, rail and bus stations. The city is the second biggest air hub in the country, as well as the biggest

rail hub in the Northern Kazakhstan. The city's public transport system comprises buses and taxis. Personal vehicles, alongside public transport, are also an important part of urban transportation.

3.2.1. RAIL ROADS

Astana Train Station handles the arrivals and departures of trains from 4 directions, all the while serving an average of 50 pairs of trains, 14 of which are connecting trains, including those going to and from international destinations. The station is able to hold up to 1,800 people, with a passenger capacity of up to 6,500 people per day.

Astana can be reached on domestic rail roads by connecting trains from any city in Kazakhstan; in addition, there is the direct connection with 4 cities: Karaganda, Petropavlovsk, Pavlodar and Kostanay. International destinations are connected

with countries such as Belarus, Russia, Kyrgyzstan, Uzbekistan, Ukraine and China.

The station is equipped with three rail lines for passenger trains and two platforms. The station building has an area of 11,000 square metres, the two platforms together are 15,500 sq.m. The station building has a VIP waiting room. The platform size is sufficient enough to handle passenger traffic three times higher than the daily rate. The average number of passengers per train (approximately 66 people per train) indicates that there is a significant reserve capacity to serve the exhibition visitors.



Figure: Domestic and international rail road service plan

In 2014, construction of a new railway station in Astana started for the convenience of exhibition participants and visitors. The new terminal is expected to be located along the axis of the Millennium Avenue, which leads to the Expo Village. The estimated passenger flow of the new station will be 35,000 passengers per day. The area of the railway station will be 27 hectares and the total area of the station building - 87,700 square metres.

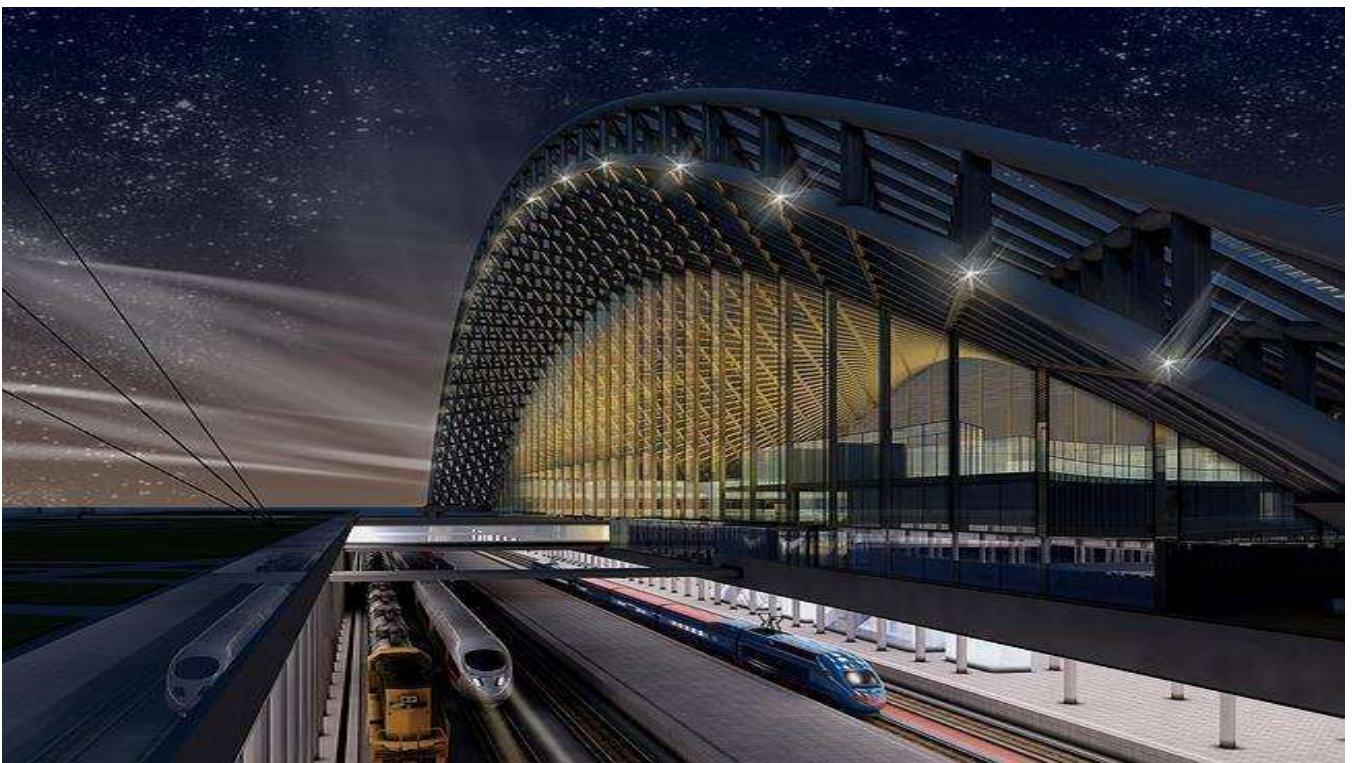
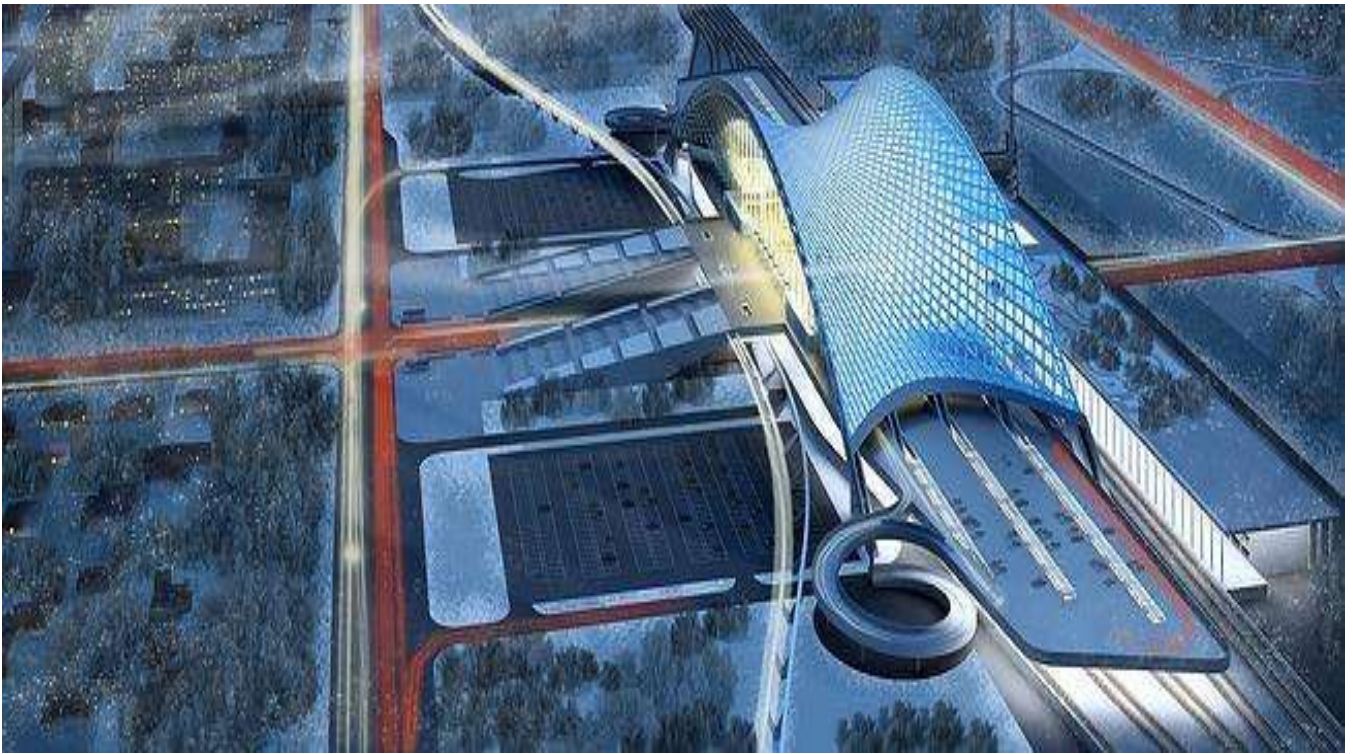


Figure: Design of the new railway station

Construction of the new railway station in Astana will enable Exhibition visitors to arrive at their destination; it will also provide a comfortable, fast and easy way to reach Astana.

3.2.2 AIR TRAVEL

Astana International Airport was constructed in 1931 as a small airport for light aircraft operation. A new passenger terminal was built in 2007 following the transfer of the capital city.

Astana Airport meets modern international standards. It has International Civil Aviation Organisation (ICAO) category III-A certification for landing and serves all types of aircraft.

Every year, the airport increases the number of airlines it serves. For example, in comparison with the previous year, the number of airlines increased to 18 regular and 50 charter companies. Companies carrying out regular long and short-haul passenger flights include: "Air Astana", "Qazaq Air", "SCAT", "Zhetysu", "Bek Air", "Transaero", "Lufthansa", "Etihad Airways", "Austrian Airlines", "Turkish Airlines", "O'zbekiston Havoyotlari", "Belavia", "Ukraine International Airlines", "China Southern Airlines", "Air Arabia", "Rossiya", "Asiana Airlines" etc. New routes open every year, making Astana more accessible to visitors.

Astana International Airport has increased its route capacity to 24 direct international and 14 domestic destinations. Direct international flights connect Astana with Moscow, St. Petersburg, Kazan, Novosibirsk, Tomsk, Omsk, Yekaterinburg, Tashkent, Kiev, Minsk, Baku, Tbilisi, Frankfurt, Vienna, Abu Dhabi, Dubai, Sharjah, Istanbul, Antalya, Beijing, Ürümqi, Ulan Bator, Bangkok, London and Paris.

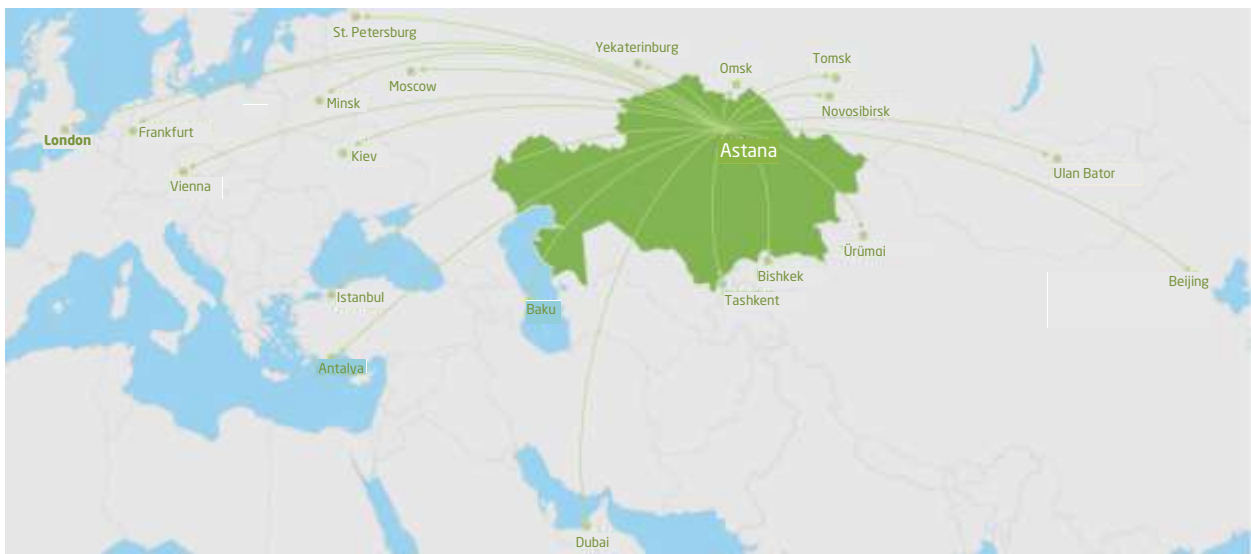


Figure: International air destinations

The capital's airport carries out regular flights to all regional centres of Kazakhstan. The launch of a new airline "Qazaq Air" has increased the number of domestic flights inside Kazakhstan.



Figure: Domestic air destinations

Passenger capacity of the terminal is 750 passengers per hour. The airport serves up to 55 flights on a daily basis, enabling the transportation of up to 11,000 passengers a day.

Construction of a new terminal especially for the Exhibition is planned. The new terminal will increase the capacity up to 1,500 passengers per hour. All scheduled repair works are due to be completed by March 2017.

It is expected that the number of flights and destinations served by Astana Airport will increase, particularly in connection with the Exhibition. Thus, it will be ready to serve a large flow of local residents, visitors and attendees during and after the Exhibition.



Figure: Design of the airport after reconstruction

3.2.3 BUS ROUTES

The bus station was put into operation in 1989. In 2009-2013, the façades were reconstructed and interior decoration of the building was carried out. The bus station serves over 60 inter-city, inter-regional and international routes on a daily basis, enabling transportation of about 1 million passengers a year. The throughput capacity of the station is 180 journeys and 6,500 passengers per day.

It also planned that two new bus stations with the capacity of 4,500 passengers per day will be built for the Exhibition.



Figure: One of the designs of the new bus station

3.2.4. ROAD ROUTES

Astana is located in the centre of Kazakhstan; it is connected to the rest of the country and major cities in the neighbouring countries with several major highways



Figure: Domestic and international road system

Astana has 8 access roads to highways, 6 of which are major ones and lead to the following destinations: Kostanay, Kokshetau, Pavlodar, Karaganda, Koschi and Korgalzhyn.

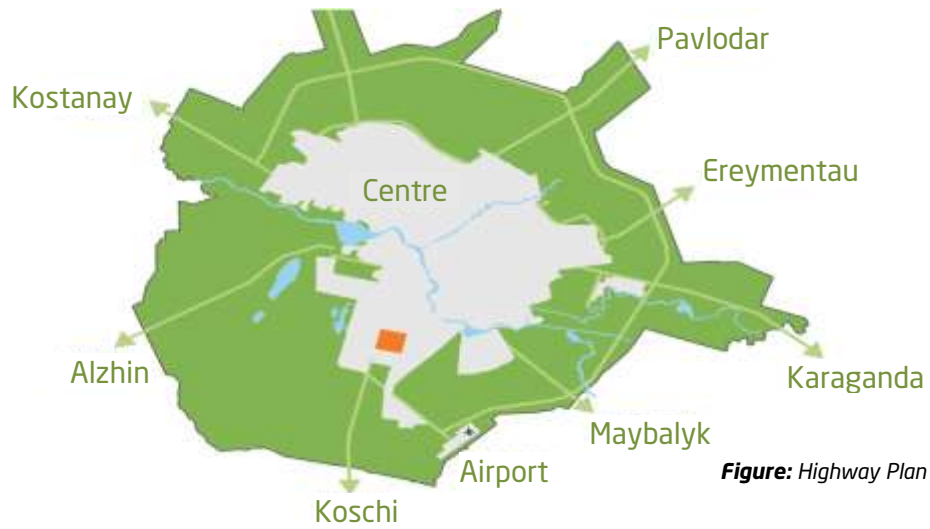


Figure: Highway Plan

Astana’s road traffic layout is a closed ring with various single roads leading from the centre: an inner ring road that circles the business centre and an outer ring road that connects city centre to the airport.

Exhibition Complex is located along R-3 road which also links the city centre to the airport.

All highways are connected to the outer ring road, K-1, which is used by through traffic to bypass the city. K-1 crosses P-3 approximately 4 km to south of the Exhibition Complex.

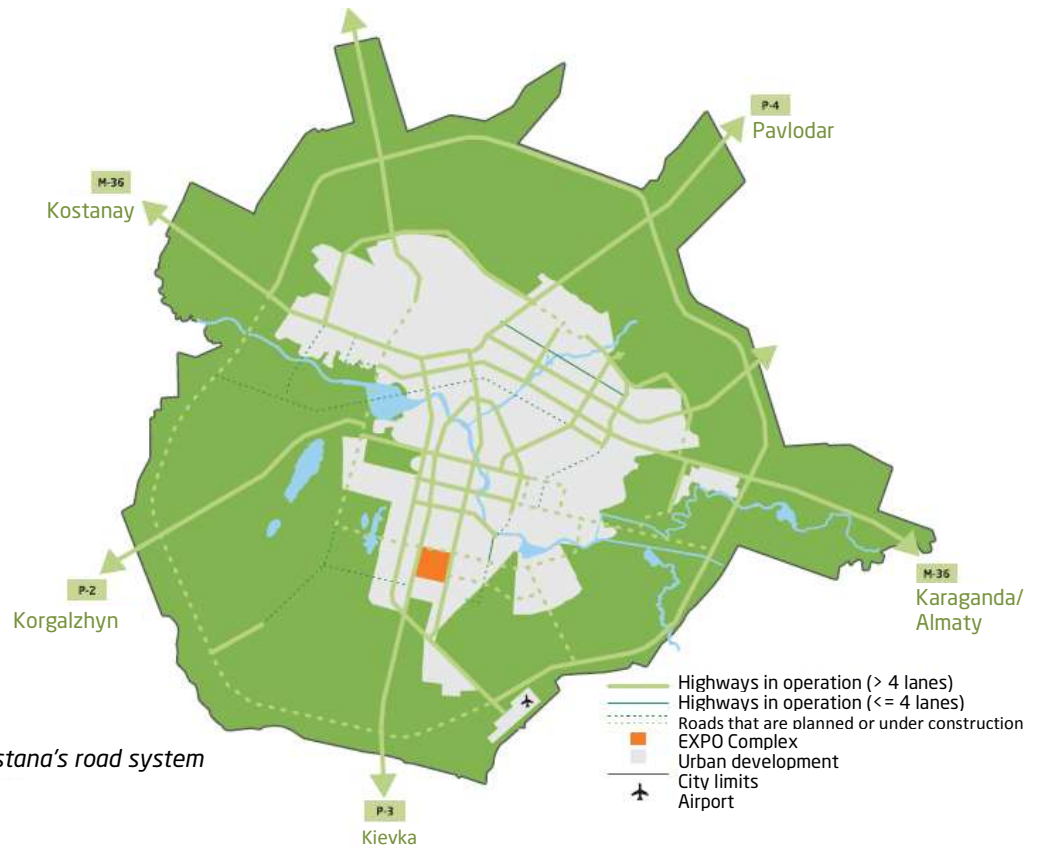


Figure: Astana's road system

Some highways and roads were reconstructed in the period between 2006 and 2011. Astana can be reached by highways linking various regions and cities of Russia, Uzbekistan, Kyrgyzstan and China. For Astana EXPO 2017, the large-scale reconstruction and expansion of highways to the main destinations: Astana-Temirtau and Astana-Pavlodar has been planned.

3.2.5 LIGHT RAIL TRANSPORT (LRT)

A Light Rail Transport system ("**LRT**") is set to commence operations in Astana by the time Exhibition starts. This type of public transport is the first state-of-the-art enhanced passenger rail system of its kind in Kazakhstan. The rolling stock has a high passenger capacity compared to other types of surface transport; it is characterised by environmental friendliness, modern design, attractive look and high level of comfort and safety. LRT will afford the required mobility and comfort for city residents and visitors and reduce travel time. The system will span 22.4 km from Astana International Airport to the new railway station. It will have 18 stations with the capacity of 580 passengers. Passenger flow will reach 83,000 people per day.



Figure: Kabanbay-batyr Avenue site



Figure: Nazarbayev University site. EXPO 2017 Station



Figure: First Line scheme

3.2.6 BICYCLE INFRASTRUCTURE

It is also planned to have bike lanes, parks and automated bike rental points called Astana Bike in the Exhibition Complex for easy and rapid transportation of visitors and participants.

Within the scope of the first phase of the Astana Bike project, 200 bicycles and 40 stations have been bought. They will be located on the left bank, in the central part of the city (the area covering 13.5 square kilometres). Future plans include expanding the fleet to 1,000 bicycles and equipping the Exhibition Complex with bike stations and the required infrastructure. The bikes are delivered by the French company Smoove, which has already implemented similar projects in various cities of the Russian Federation, France, Georgia, USA, Italy and the UK.

3.3. SOCIAL INFRASTRUCTURE

3.3.1. HOTELS

Astana embodies the best traditions of Kazakh hospitality. Exhibition visitors will be able to enjoy a wide range of services, high quality and varied service. In addition, hotels will provide opportunities not only for leisure, but also for business events and will offer a great variety of additional services.

Infographics: Available Rooms

Category	Number of hotels	Number of rooms	Number of beds
5* hotels	5		
4* hotels	21		
3* hotels	17	6,694	10,515
Other	123		
Total	166		

Astana is an operation area for the world-renowned hotel brands like Marriott, Radisson Blu, Rixos, Hilton Garden Inn, Ibis.

Ritz Carlton and Four Seasons hotels, and a hotel in the newly built Abu Dhabi Plaza skyscraper will open by 2017.

In total, it is planned that 73 hotels will open by 2017. Thirty of them are now under construction. Total simultaneous capacity during Astana EXPO 2017, taking into account the new hotels, will exceed 15,000 beds.

3.3.2. RESTAURANTS

Infographics: 177 restaurants, 770 cafés and bars, 118 canteens.

Being the capital city of a multicultural country, Astana offers national Kazakh as well as international cuisines, including Uzbek, Russian, Tatar, Korean and many others.

Modern Kazakh cuisine, while taking on international trends, has retained its national character.

There is currently a boom in restaurant franchising in Astana, and its presence on the market is on the rise.

3.3.3. TOURIST ATTRACTIONS

Astana is one of the few capitals that were built in the 21st century. It clearly represents the vision of a better future. The boulevards and avenues lend the city its grand scale alongside numerous green parks, pedestrian and bike lanes. The buildings and tourist attractions are comparable to the most modern recreation areas in the major capitals of the world in terms of design, size and appeal. The whole structure of the city, open space, avenues and pedestrian areas give a feeling of space.

The designer of Astana's master plan was the famous Japanese architect Kisho Kurokawa. The architectural ensembles developed by him combine modern design with an Asian flair.

In order to attract visitors to Astana EXPO 2017, the Organiser has outlined recommended tours in the Republic of Kazakhstan with a visit to Astana and the Exhibition.

"ASTANA - THE HEART OF KAZAKHSTAN"

A sightseeing city tour; in the course of it, the guests of the capital learn about the young city, see its major attractions, visit historic sites of the old city on the right bank of the Ishim River and, of course, the new centre on the left bank.

Duration: 1 day



MUSEUM OF THE FIRST PRESIDENT OF THE REPUBLIC OF KAZAKHSTAN, the former Presidential Residence.

The museum possesses more than 123,000 items from the personal archive of the Head of State, which include gifts, souvenirs, books, archival manuscripts, printed materials, films and photographs, works of fine and decorative arts.



INDEPENDENCE PALACE is the venue of official government meetings, forums and conferences. Large-scale events such as the KazEnergy and Astana Economic Forum take place in the Palace. OSCE summit was held there in 2010.



THE NATIONAL MUSEUM OF THE HISTORY OF KAZAKHSTAN is a new museum which opened to the public in 2014. The unique feature of the museum is the use of modern technology to portray the history of Kazakhstan.



KHAN SHATYR SHOPPING AND ENTERTAINMENT CENTRE is another striking attraction of Astana's modern architecture and, at the same time, the city's huge shopping and entertainment centre. It is the largest marquee in the world with its 150 m high spire and the total area of 127,000 square metres. Khan Shatyr was named one of the world's top 10 eco-buildings by Forbes Style Magazine, the only building from the CIS to make the list. The main attraction of Khan Shatyr is a beach resort with the tropical climate, plants and the temperature of 35 degrees all year round.



BAYTEREK is a symbol of Astana. The Bayterek Monument was opened in 2002 and became a symbol of the history of Kazakhstan, of the new stage in the life of its people. The structure of the tower symbolizes the three pillars of creation: the underground, terrestrial and celestial worlds. It stands at 97 metres tall, which symbolizes the year of 1997, when the new capital was proclaimed.



PALACE OF PEACE AND RECONCILIATION (PYRAMID) is a symbol of friendship, unity and peace on Kazakhstan's territory. The building is the venue of the Congress of Leaders of World and Traditional Religions and embodies the desire of the young independent state for peace and harmony.

"ASTANA'S NIGHT LIGHTS"

A sightseeing tour along the embankment and around the old centre of the city of Astana. The guests of the capital will see the amazing architectural structures with unique lighting design that lend the urban ensemble their individuality and fairytale quality.

Duration: 1 day



AKORDA PRESIDENTIAL PALACE OF THE REPUBLIC OF KAZAKHSTAN.

Akorda is one of the outward images of the new philosophy of Kazakhstan's development. The symbolic and functional purpose of the residence is reflected in the design of its façades and interiors, in their stylistic and colour choices. A distinctive feature of the project is a unique collection of Kazakh fine arts giving the residence artistic cohesion.



Hazrat Sultan Mosque is one of the most stunning attractions in Astana. It is the largest mosque in Central Asia.

The mosque was named after one of the Sufi sheikhs, Khoja Ahmed Yassawi, a poet, philosopher and 12th century Muslim saint known throughout Central Asia.

<http://www.shutterstock.com/ru/pic-185221985/stock-photo-osque-in-astana-on-summer-day-kazakhstan-central-asia.html?src=pp-photo-203792356-wojq9rE2Ums6As-Wxm8Mog-1>



KAZAKH ELI

One of the most beautiful sights of the city of Astana is Kazakh Eli memorial complex. The monument stands at 91 metres tall, which symbolises the year of 1991, when Kazakhstan became an independent state.



STATE OPERA AND BALLET THEATRE - ASTANA

OPERA is the third largest opera and ballet theatre in the world with a hand-picked number of performances a year. The building's architecture is a mixture of Baroque and Graeco-Roman style. The project was brought to life by architects from Kazakhstan, Switzerland, Russia and Italy.



GREEN WATER BOULEVARD The boulevard is the central axis between the western and eastern parts of the city. Round Square in Astana is home to fountains, flower beds and national sculptures. Each fountain on the boulevard has its own architectural image and employs modern and unique technology.

"THE YOUNG CAPITAL. THE LEGENDS OF BURABAY. CONNECTING THE PAST TO THE FUTURE"

A sightseeing tour of the capital of Kazakhstan and "Kazakhstan's Switzerland": the holiday destination of Burabay. Guests of the capital will learn about the surprising state national natural park Burabay and the green groves of the Kazakh expanses.

Duration: 3 days



AN EDUCATIONAL TOUR OF THE CITY



BOROVOE is called "the pearl of Kazakhstan" and "Kazakhstan's Switzerland". Borovoe national park has 14 large lakes, including Borovoe, Shchuchye, Kotyrkol, as well as numerous small lakes. The hallmark of Borovoe is the Kokshetau mountain (in Kazakh: "Blue Mountain").

The holiday resort is the main centre of recreation, tourism and the gambling industry of Kazakhstan: its own version of Las Vegas.





4. THEME

The theme of the International Recognised Exhibition EXPO 2017 Astana is Future Energy.

Modern civilisation cannot exist without energy. It is necessary for all spheres of human activity, and access to energy facilitates dynamic social development. Energy is one of the fundamental factors of the economic, cultural, and social progress of humanity equal to the future prospects ahead of all countries and peoples. Without the stable production and proper use of energy, it is impossible to build a sustainable economy. Energy is of vital importance for transport, manufacturing, communications industry, agricultural sector, health care and all other areas without exception. Energy guarantees the heat and light in our homes, and an increase in the energy sources gives the opportunity to develop societies and countries.

However, energy resources are limited and we are currently using them in such a way that is harmful to our planet. It is high time that we made a pause and fundamentally re-evaluated our attitude to energy. Astana EXPO 2017 with Future Energy as its theme will help to achieve this particular strategic objective. The overall mission of Kazakhstan's Exhibition is a global dialogue on strategic priorities of modern energy politics and the joint search for answers to core challenges of our time. The main aim is creating a new model of Future Energy, which will facilitate the ongoing development of our planet and, as a result, the well-being of future generations.

Astana will be the foundation for strategies, concepts and technologies that are of global importance and aimed at securing equal access to energy, expanding the use of renewable energy sources, shaping an energy efficient lifestyle and advancing energy security in order to create a new global energy model.

Astana EXPO 2017 promotes the idea of each person bearing responsibility and personally taking part in the development and implementation of a sustainable plan for the production, distribution and use of Future Energy.

4.1. THE MAIN ELEMENTS OF THE THEME AND SUB-THEMES

Exhibition theme: Future Energy. The Exhibition is dedicated to the challenges and problems of global energy that directly impact daily lives on our planet. Among them are global warming and climate change, development, energy security and the lack of natural resources, access to water, preserving biodiversity and promoting global equality.

The target of the theme is to facilitate the discussion of possible solutions to future energy problems by considering new methods of its production, use and management, together with searching for the best proposals for the most reliable

ways of achieving the highest levels of sustainable development.

In this regard, one of the most important objectives of the future energy sector should be:

- defining sustainable energy supply models;
- increasing energy efficiency;
- increasing the share of ecological and renewable energy;
- establishing the necessary energy distribution networks and maintaining them in order to satisfy the demand; and
- ensuring wide access to sustainable energy.

For exploration of the most important aspects of the theme, the following three sub-themes were chosen:

1. REDUCING CO2 EMISSIONS:

This sub-theme underlines the urgency of reducing carbon emissions by way of developing and introducing low-carbon technologies in the energy sector and reducing the demand for energy.

Various existing technologies and solutions for the reduction of CO2 emissions will be considered:

- Reducing CO2 emissions by employing carbon capture and storage technologies (CCS)
- Reducing CO2 emissions by employing renewable energy sources
- Reducing CO2 emissions by developing hydrogen as a energy source
- Reducing CO2 emissions by employing thermonuclear fusion

2. LIVING ENERGY EFFICIENCY:

This sub-theme focuses on energy efficiency as one of the priority solutions to the challenge of future energy. Energy efficiency implies qualitative improvement in energy use, in particular, using less energy to achieve a specific result, or create a product or service. Recent research shows that countries with high levels of energy consumption would be able to cut their energy demand twofold through the use of energy efficient systems in homes, buildings and industrial facilities, and the improvement of transport systems and their operation. Therefore, it is of critical

importance that strategies for the use of inexpensive technologies be developed in order to make cities, buildings and transport more efficient, all the while reducing emissions of greenhouse gases, and consequently use the energy at our disposal more efficiently.

In a world where the demand for energy is growing every day, we can use energy efficiently in the following areas:

- Urban Planning and Buildings
- Energy efficient transport
- Energy efficient industry

3. ENERGY FOR ALL:

This sub-theme defines access to electricity as a fundamental human right and need, in particular, in the developing countries. The transfer to new energy models should be technically feasible, fair and sustainable. The humanity now faces two challenges: providing energy to poor countries and peoples and reducing the “carbon footprint” of our energy system. These measures will enable the developing countries to achieve a higher standard of living in a shorter period as compared with the modern fossil

fuel-dependent economy. Active participation of international structures and the private sector as well as stakeholders on the regional, national and local levels will guarantee access to clean electricity sources to a greater number of people.

Energy for all includes the following:

- Energy against poverty
- Access to sustainable energy as a prerequisite for development
- Decentralised energy systems

4.2. THEMATIC PAVILIONS



General Concept of Thematic Pavilions

The key concept of thematic pavilions is that each of them will present diverse experience, demonstrate a variety of perspectives and approaches to solving problems in an engaging format, use clear spatial patterns that are easily accessible to the attendees. Therefore, visitors will have an opportunity to learn something new and gain individual impressions.

The idea of active interaction with the attendees underlies the concept of theme development in the pavilions: Future Energy will be presented to all those present, and visitors will have an opportunity to share their individual approach to problems, which will make them active participants.

The Exhibition Site will comprise two Thematic Pavilions, each of which will further be divided into 4 thematic zones:

- World of Energy
- Energy for Life
- Energy for All
- My Future Energy

4.2.1. THEMATIC ZONE “WORLD OF ENERGY”

The thematic zone “World of Energy” will cover the following sub-themes:

- The Universe and Energy;
- Earth and Energy Resources;
- Future Energy Resources.

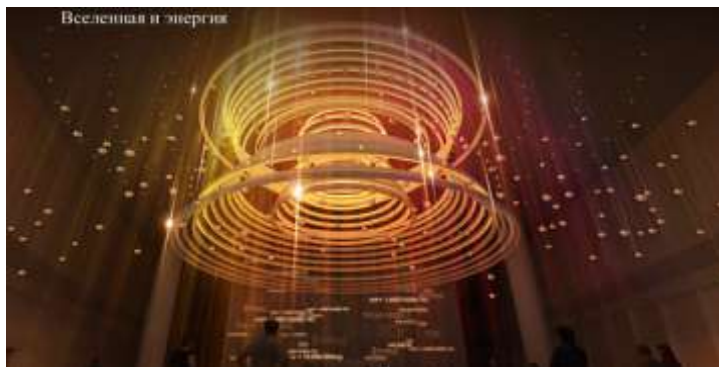


Photo 1. The Concept of the thematic zone “World of Energy”: The Universe and Energy. An Energy sphere will be in perpetual motion and will collide with the frame. This improvisation will help to explain the laws of mechanical energy transformation and energy conservation.

4.2.2. THEMATIC ZONE “ENERGY FOR LIFE”

The thematic zone “Energy for Life” will cover the following sub-themes:

- Smart Cities, smart life;
- Tech-Garden.

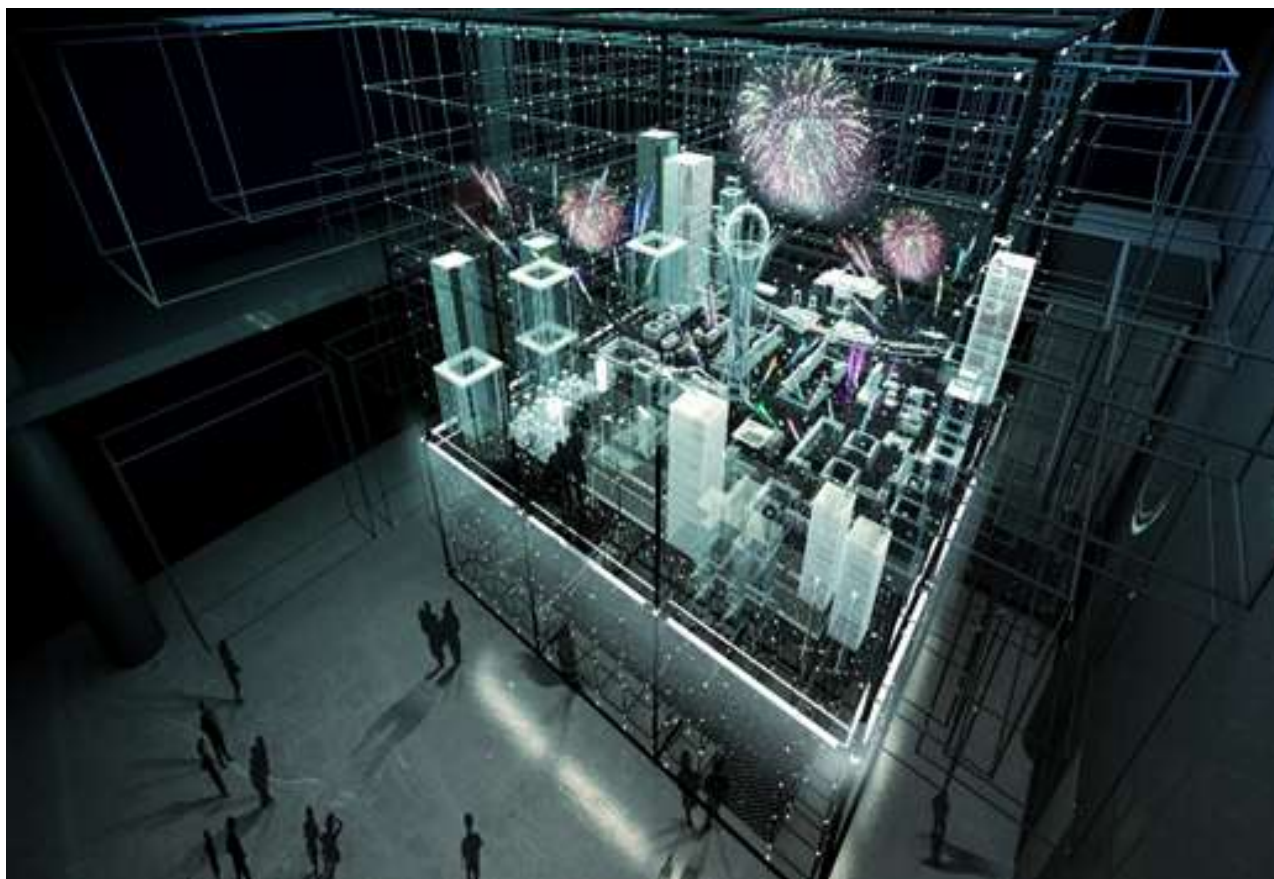


Photo 2. The Concept of the thematic zone, “Energy for Life”: Smart Cities, Smart Life

Photo 3. The Concept of the thematic zone, "Energy for Life": Tech-Garden

The Tech-Garden will be primarily powered by the environmental friendly production of solar power, produced by the building and a Solar Heat Storage and Distribution System; a symbol for sustainable development.



The thematic zone "Energy for Life" comprises the following zones:

- The Current Situation;
- Sustainable Development and Energy against Poverty.



Photo 4. The Concept of the thematic zone "Energy for All": Sustainable Development and Energy against Poverty

4.2.3. THEMATIC ZONE “MY FUTURE ENERGY”

Thematic zone “My Future Energy” is divided into three sub-themes:

- My Energy Footprint;
- Commitment and Responsibility;
- Future Energy from Us.



Photo 5. The Concept of the thematic zone “My Future Energy”: Commitment and Responsibility. This exposition will be powered by the solar power produced, without the external power supply.

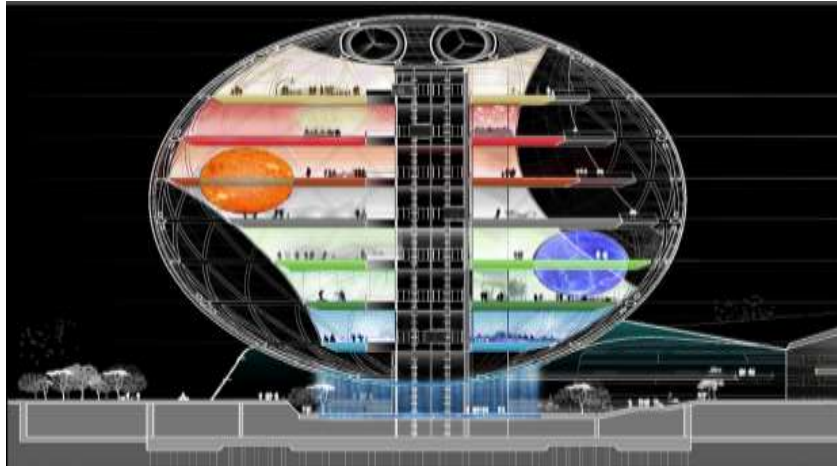


Photo 6. The Concept of the thematic zone “My Future Energy”: Future Energy from Us. All installations are planned as informative modular constructions, which will allow them to be used again in scientific institutions thus leaving a legacy for the future generation.

4.2.4. Museum of the Future (the Sphere)

Future Energy is the subject of another thematic Exhibition venue: Museum of the Future.

Museum of the Future is located inside the seven-storey spherical building - the symbol of Astana EXPO 2017 (the Sphere). Future Energy is divided up and displayed in the Sphere on each floor.



1st floor: The Kazakhstan Pavilion.

2nd floor: deep water and waves.

Deepwater tidal energy can be harnessed through static and free-floating shapes. Waves create rhythm on sea surface, and the rocking, swaying motion can be used to generate energy by means of floating structures or mountings on the surface.

3rd floor: the kinetic energy of the Earth.

We are all in constant contact with the Earth, and this energy can be converted by kinetic receivers and devices that react to all kinds of motion - from walking to car movement etc.

4th floor: the biomass of the Earth.

Planet Earth is a renewable source of organic energy. Bioengineering can be used to convert organic products from their current state into a potential energy source (i.e. toxic waste into an energy source).

5th floor: wind energy.

As a component of the atmosphere, wind has been used throughout the history as a form of free energy. These invisible air currents are converted into energy by means of wind farms, both onshore and offshore. The technology of using wind power as an energy source is applied not only to the national grid, but also for private purposes.

6th floor: solar energy.

Solar energy is one of the key elements in the concept of alternative energy sources. The greatest growth potential can be found in the arrangement of space-based mirror panels in orbit of the planet, which absorb and convert concentrated solar rays and transmit them to collectors located in the sea.

7th floor: plasma.

Plasma is the purest form of energy, which can generate increased productivity. Using plasma might turn mankind's dream about the unlimited clean energy into reality.

8th floor: viewing platform.





5. EXHIBITION SITE

5.1. GENERAL EXHIBITION LAYOUT

5.1.1. SITE ORIENTATION

The site chosen to host Astana EXPO 2017 is located 8 km to the south of the old city centre of Astana and just 4 km away from the new government quarter on the south bank of the Ishim River.

The Exhibition Complex is conveniently located on the route connecting the city centre and the airport and is surrounded by major transportation arteries: Kabanbay Batyr Avenue to the east and Orynbor

Avenue to the west, inner ring road Hussein Bin Talal Street to the north, as well as Turar Ryskulov Street to the south, which form an almost equilateral square. The exhibition takes place at the intersection of the existing and planned urban development axes: the green axis of Lineiny Park to the south of the Bayterek monument and the symbolic educational axis of the new N. Nazarbayev University.



Figure: Layout scheme

5.1.2. EXHIBITION SITE LAYOUT

The area intended for the Exhibition Site is 25 hectares surrounded by 149 hectares of territory intended for residential and mixed development, Exhibition support facilities and the transport infrastructure. The total area of the Exhibition Complex is 174 hectares.



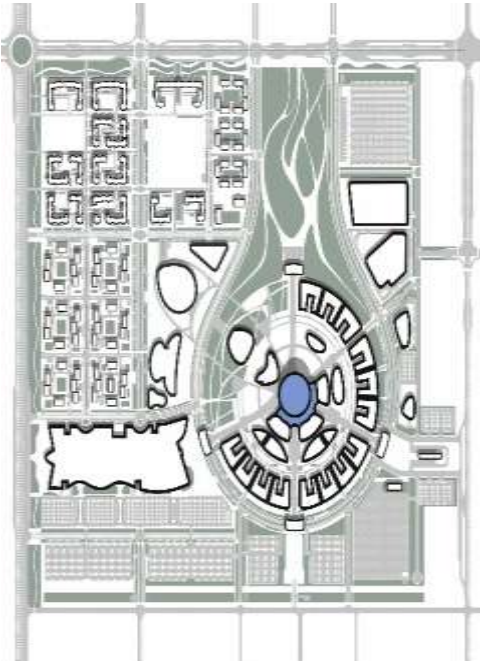
Figure: General Exhibition layout

The urban space, created with account for energy efficiency, ensures maximum integration of the buildings into the surrounding environment. A large number of the Exhibition facilities and the infrastructure have been designed with their post-use in mind.

The Exhibition Complex is split up into esplanades shaped like the blades of a wind turbine. These design elements symbolise water and wind - sources of clean future energy. Furthermore, it is possible to see the "shadow" of the Bayterek Tower on the contours - it is no coincidence that the facilities are located in the line of sight leading to the city's main tourist attraction. The Green Axis of Parks finds its home in the park area, whose varied natural landscape will include recreation and leisure areas for Exhibition visitors and city residents.

Where the pedestrian esplanades meet, the Kazakhstan Pavilion (the Sphere) takes up the central position in the composition of international and thematic pavilions. The block of pavilions will be linked by the Ring Boulevard designed for visitors to walk and relax. During the Exhibition, the boulevard will also serve as a venue for daily festival parades, street shows, performances and installations.

KAZAKHSTAN PAVILION (THE SPHERE)



The Kazakhstan Pavilion (the Sphere) is the only complete spherical building in the world. It measures 80 m in diameter. Alongside its unique construction features set out by the building's shape and its function as an exhibition venue, the pavilion also serves as a striking example of the use of renewable energy sources. A series of high-efficiency energy-saving technologies and an intelligent energy system facilitate effective energy distribution, depending on the time of day and season.

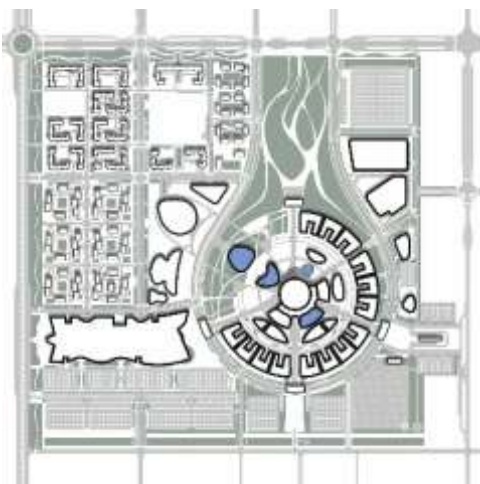
The Kazakhstan Pavilion itself is located directly inside the sphere, which is also home to the Museum of the Future and other public spaces. The building's interior and exterior will be equipped with interactive LED screens that will be able to project images on the Future Energy theme. It goes without saying that the Sphere will be the symbol of modern Astana and one of the city's main tourist attractions.

THEMATIC PAVILIONS



The Exhibition theme "Future Energy" is presented in four thematic zones: "World Energy", "Energy for Life", "Energy for All" and "My Future Energy". The General Plan suggests setting aside two large sites on the Exhibition Complex for thematic Pavilions. The Exhibition Theme "Future Energy", will be explored in two pavilions that will be the platform for demonstrations of examples of best practices, new technologies and innovations. The spaces created will house special exhibition venues, audio-visual and other installations. The "thematic tour" of the Ring Boulevard will be the logical progression of the Pavilions, where the Exhibition theme will be supplemented with art performances, open-air events, plays on small temporary stages and an entertainment program for children.

THE ART AND CULTURE COMPLEX



The Exhibition's cultural and entertainment events play a significant role. In compliance with BIE regulations, the Exhibition Site include four main entertainment areas.

The main events venues are the Auditorium and Arts Centre located inside the Ring Boulevard, next to a large woodland, where sun shades, small stages and sales outlets can be built in the open spaces. Alongside the performances of the Daily Show, the Auditorium is primarily going to hold large-scale concerts as part of the Exhibition.

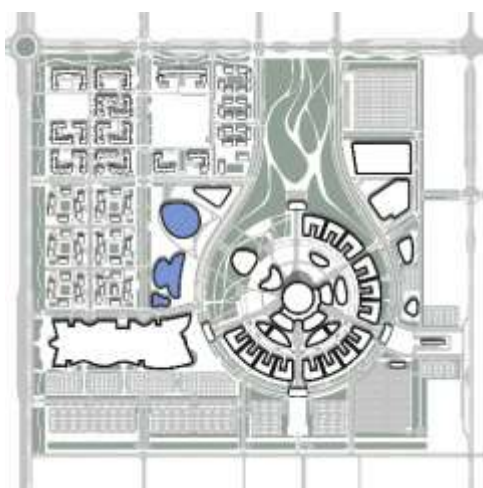
The covered area of the Auditorium's concert hall can hold up to 2,000 spectators, while the adjoining space and landscaped roof of the Art Centre will significantly increase the number of spectators.

The Arts Centre, specially designed for the Exhibitions' cultural and entertainment program, is located opposite the Kazakhstan Pavilion. The Centre will primarily be used to hold art exhibitions and installations. It is planned that it will house multifunctional exhibition halls with a capacity of 1,000 visitors per hour.

The National Day Stage (EXPO Plaza) located inside the Ring will occupy the central position on the Exhibition Site. The National Day Ceremony and the day-long entertainment program will take place here. Therefore, the area will be the central space where events are held. It can hold 1,000 spectators, and the temporary stage of 18x10 m will help to adapt the auditorium for chamber concerts. Since the National Day Stage occupies a strategic position next to the Kazakhstan Pavilion, it will also serve as a visitor meeting point and the main area of the Exhibition.

It is proposed that the state-of-the-art E-Hall building be used for staged performances such as theatre, ballet, opera, and classical music concerts. Thanks to its rotating floor and stage technology, the area can easily be transformed into the space where official events will be held: the ceremony, receptions and banquets. The E-Hall can hold 1,500 spectators.

CONGRESS COMPLEX



The Congress Complex is located to the north-east of the Exhibition territory and comprises several administrative and hotel buildings. They will host a press centre, a 3,000-seat congress centre, offices for official agents, hotels and serviced apartments for VIP participants and visitors of the Exhibition. The Congress Centre, equipped with state-of-the-art technology, is intended for congresses and meetings at the highest level.

THE EXHIBITION'S SERVICE FACILITIES

The Organiser will build all the necessary social facilities and infrastructure on the Exhibition Site for the convenience of visitors and participants.

5.2. OPERATIONAL ACTIVITIES

The Organiser is planning the operations of the Exhibition with account for the working plan of the main Exhibition facilities, the cultural and entertainment event program during the Exhibition, including the activity of the Official participants, partners and sponsors, the program of congresses, the service schedule of the official Exhibition suppliers and contractors, the procedure of service provision to participants and visitors on the Exhibition Site.

Detailed information on the operations during the Exhibition will be provided in a special document for the Official participants (Operations on the Site).

Access to the Exhibition	Opening hours
Visitors' Entrance Hall - open until 23.00	09.00 - 01.00
Parking for Participants	08.00 - 02.00
Accreditation Points	08.00 - 20.00
Ticket Offices	08.00 - 23.00
Access for accredited Organisation Staff	24/7
Access for accredited Official Participant Staff	07.00 - 02.00
Exhibition Facilities	Opening hours
The Kazakhstan Pavilion	09.30 - 21.30
Thematic Pavilions	09.30 - 21.30
Arts Centre	09.00 - 23.00
Best Practices Area	09.30 - 21.30
The E-Hall	09.00 - 21.00
International Pavilions	09.30 - 21.30
Commercial Pavilions	09.00 - 24.00
Events at the Exhibition	Opening hours
Parade (morning show)	11.00 - 12.00
Cultural entertainment events at the Exhibition	10.00 - 23.00
The National Day Ceremony of Participating Countries	10.00 - 12.00
Parade (evening show)	20.00 - 21.00
Concert in the Auditorium	19.00 - 24.00
General Services	Opening hours
Food and Sales Points (cafés, street food stalls, restaurants, vending machines, mobile kiosk, souvenir shops)	09.00 - 24.00
Medical Points	24/7
Information Points	09.00 - 01.00
Emergency Services	24/7
Emergency Service Call Terminals	24/7
Police patrolling the Exhibition territory	24/7
Operational Services	Opening hours
Cleaning	24/7
Waste disposal	01.00 - 07.00
Logistics Centre (warehouse)	24/7
Logistics on the Exhibition Territory	24/7
Customs Point on the territory of the warehouse	09.00 - 18.30

5.3. ACCESSIBILITY

It is planned that flexible transport links will provide access to the Exhibition territory. Visitors will be able to select the most convenient means of public or personal transport to reach the Exhibition.

5.3.1 LIGHT RAIL TRANSPORT (LRT)

The main access point for the rapid light rail transport system (“LRT”) will commence from Station 107 from Kabanbay-Batyr Avenue, immediately next to the main entrance of Zhibek Zholy shopping and entertainment complex which is located in the Exhibition Complex. Therefore, Exhibition visitors and participants will be able to enter the Exhibition territory via the West entrance.

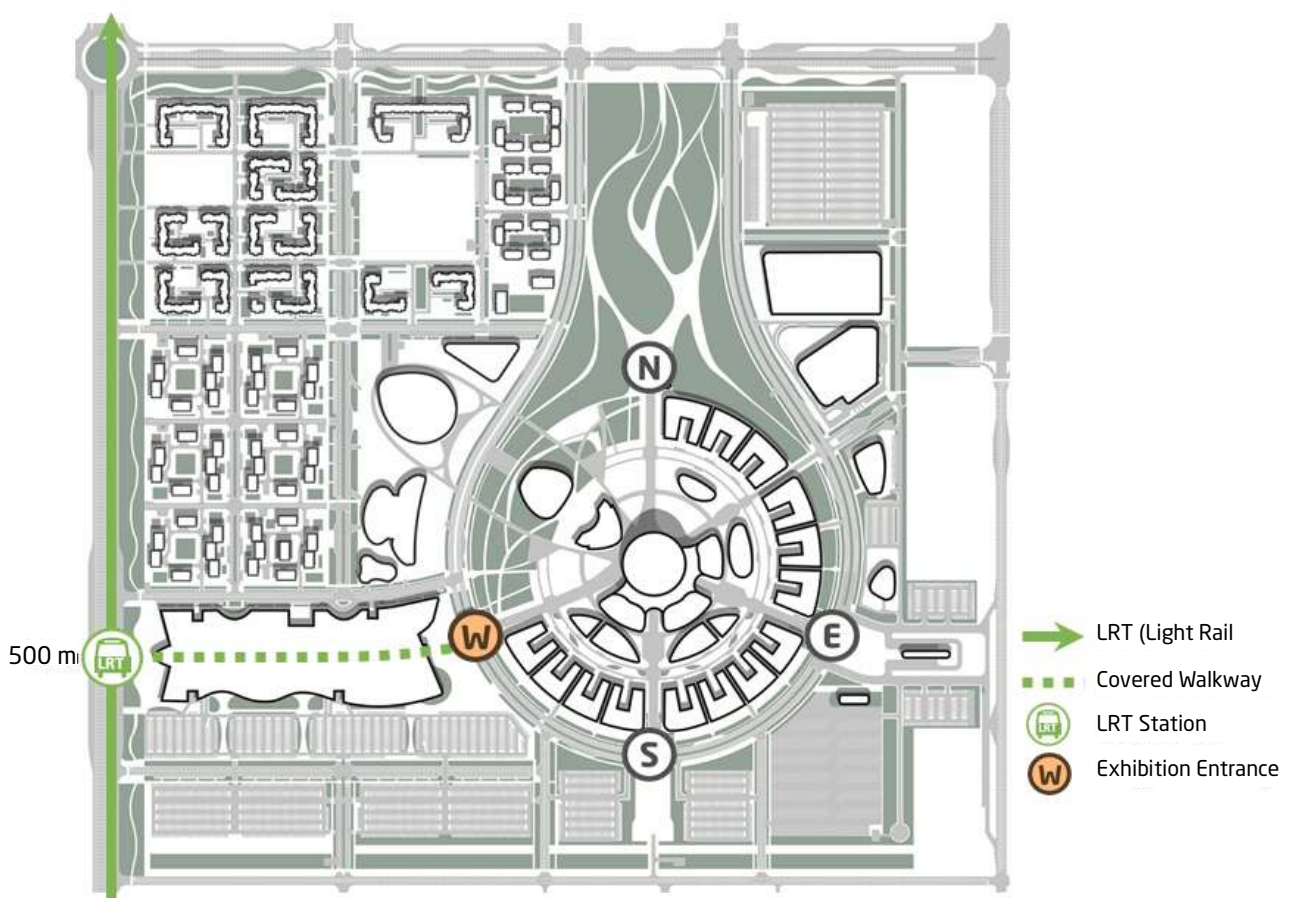


Figure: Light Rail Transport Access Plan

5.3.2 INTERNATIONAL BUS ROUTES

Bus routes to international destinations will be served by 3 bus stations: the existing Saparzhay and two new stations. The aggregate passenger capacity of the three bus stations will reach 15,500 passengers a day. Tour buses and delegations will be granted access to special bus parks in the EXPO Complex, taking into account the flows of personal vehicles:

- The approach from Kabanbay-Batyr and Orynbor streets to the southern part of the Exhibition Site to T. Ryskulov Street and the bus park located in the south-eastern part of the Exhibition Site, close to the East entrance.
- The approach to the Congress Complex from Hussein Bin Talal Street.

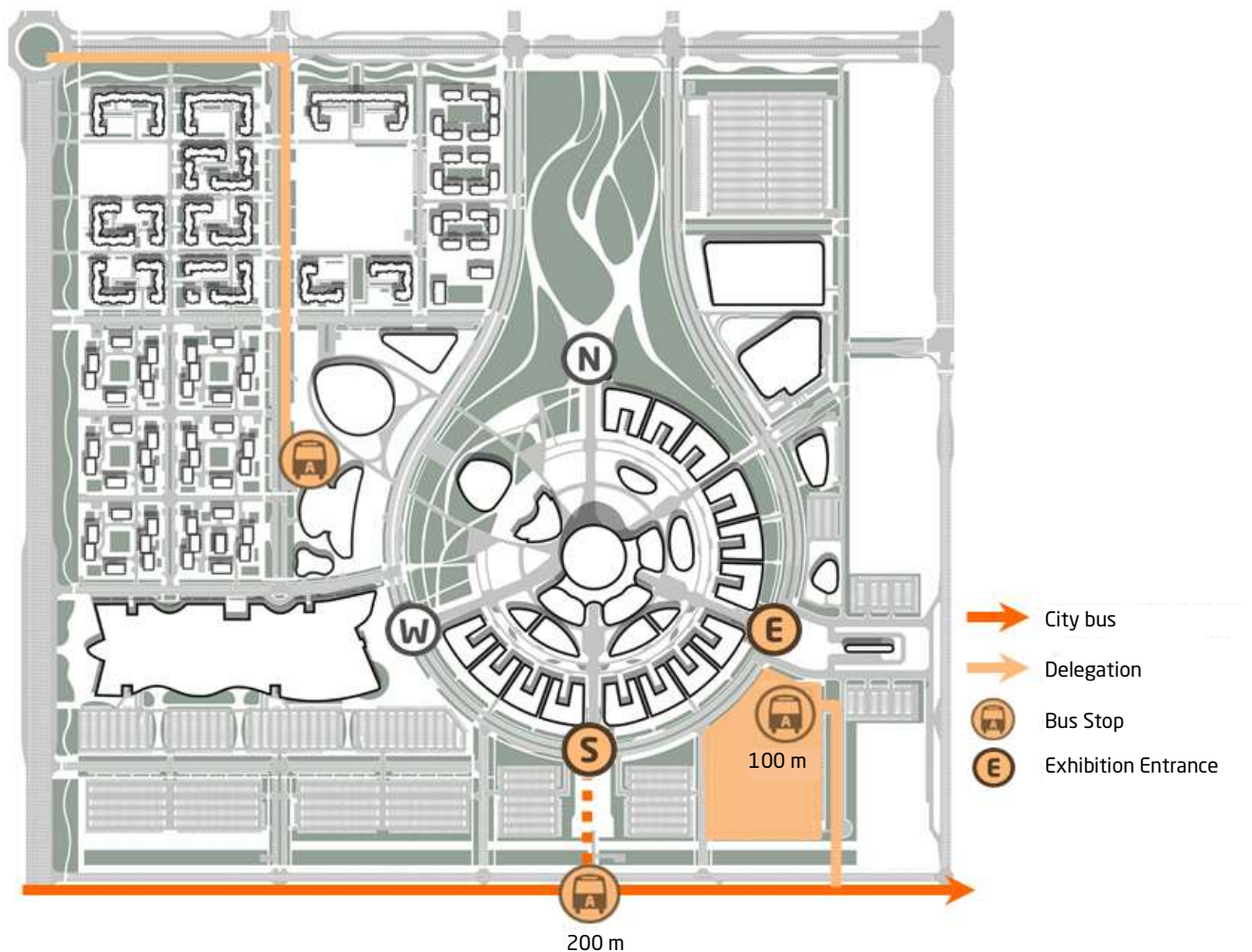


Figure: Public transport access scheme

5.3.3 PUBLIC BUSES

There are currently seven bus routes that run around the Exhibition 7. It is planned that 13 more routes be introduced by the time the Exhibition starts. Consequently, 20 fully-functioning routes with an average interval of 5 minutes will come into operation.

In order to enable maximum use of public transport by visitors, the Exhibition territory will be fitted with bus stops in the immediate proximity to the Exhibition Complex.

5.3.4 PERSONAL VEHICLES

Main approaches to the car park on the Exhibition Complex will be Kabanbay-batyr Avenue and Orynbor Street. These main arteries are connected to the final approach road to the Exhibition - T. Ryskulov Street. Access to car parks will not impede the traffic capacity of the neighbouring road network. According to the draft transport plan, personal vehicle flow will be separated from public transport routes to the maximum possible extent.

The routes are to be redesigned where necessary in order to minimise the number of left turns on single-level junctions.

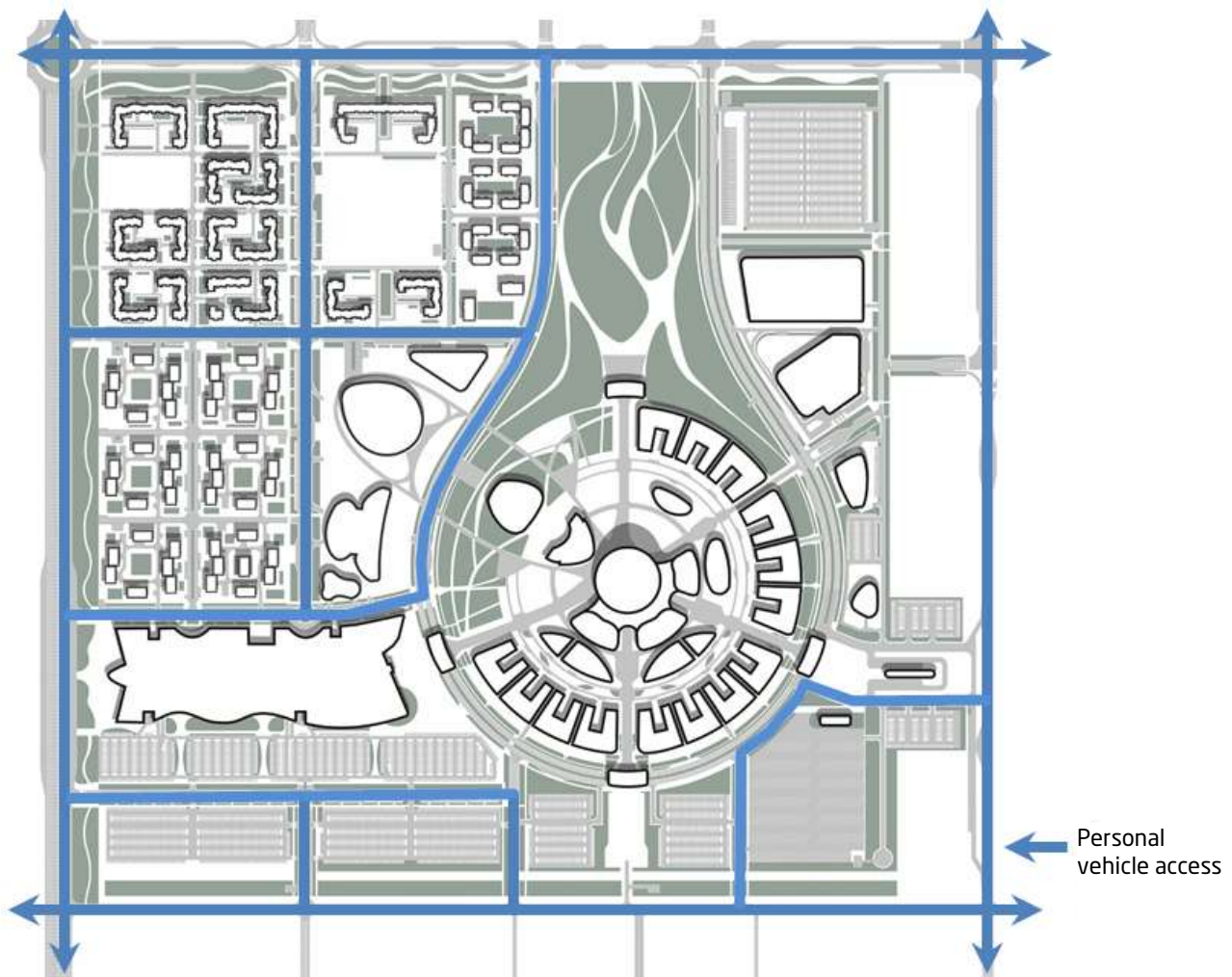


Figure: Personal vehicle access plan

5.3.5 PERSONAL VEHICLE PARKING

Large areas to the south of the Exhibition Site have been designated for personal vehicle parking. They adjoin the South, West and East entrances to the Exhibition. The average duration of stay is 7.3 hours. Consequently, the majority of parking spaces will be occupied by one vehicle for a much shorter period than the overall number of working hours (15 hours). Therefore, it can be expected that one space will be used more than once. Handicapped drivers can reserve a parking space in the immediate proximity to the entrances.

5.3.6 TAXI

Taxi is one of the most convenient means of transport. In order to make it even more convenient, a special taxi area will be located in close vicinity to the West and East entrances.

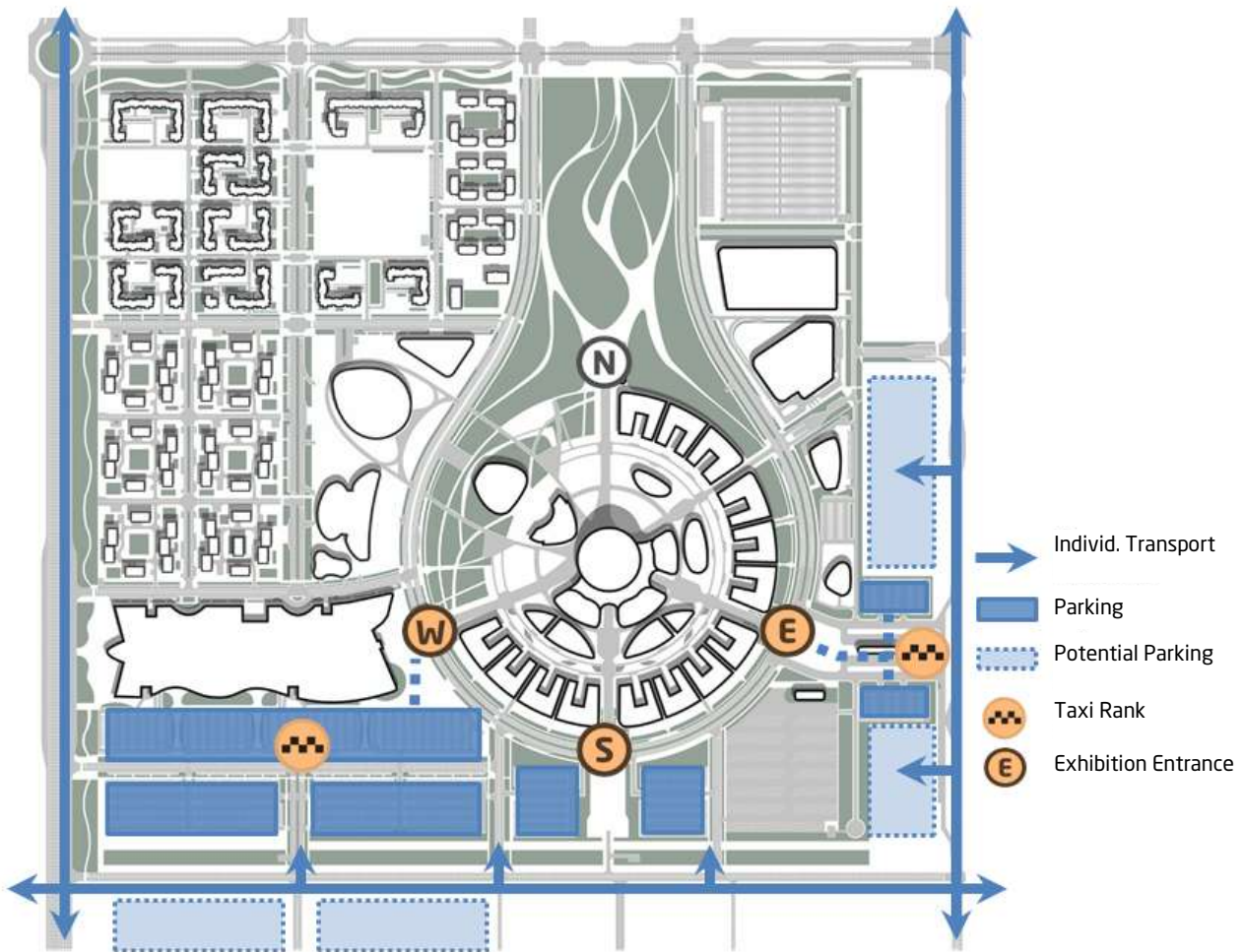


Figure: Personal vehicle parking plan

5.3.7 VIP ACCESS

It is proposed that VIP entrance be located in the north-eastern part of the Exhibition Site directly opposite the Auditorium, in order to ensure convenient access for VIP guests. The entrance faces the outer passages that VIP visitors (for example, heads of states) will be able to use to reach the facilities that are of particular interest to them, in particular, the international pavilions or the National Day Ceremony venue.

Furthermore, this entrance has convenient public transport links. VIP delegations from the city centre or airport will be able to quickly reach the Exhibition by a four-lane highway.

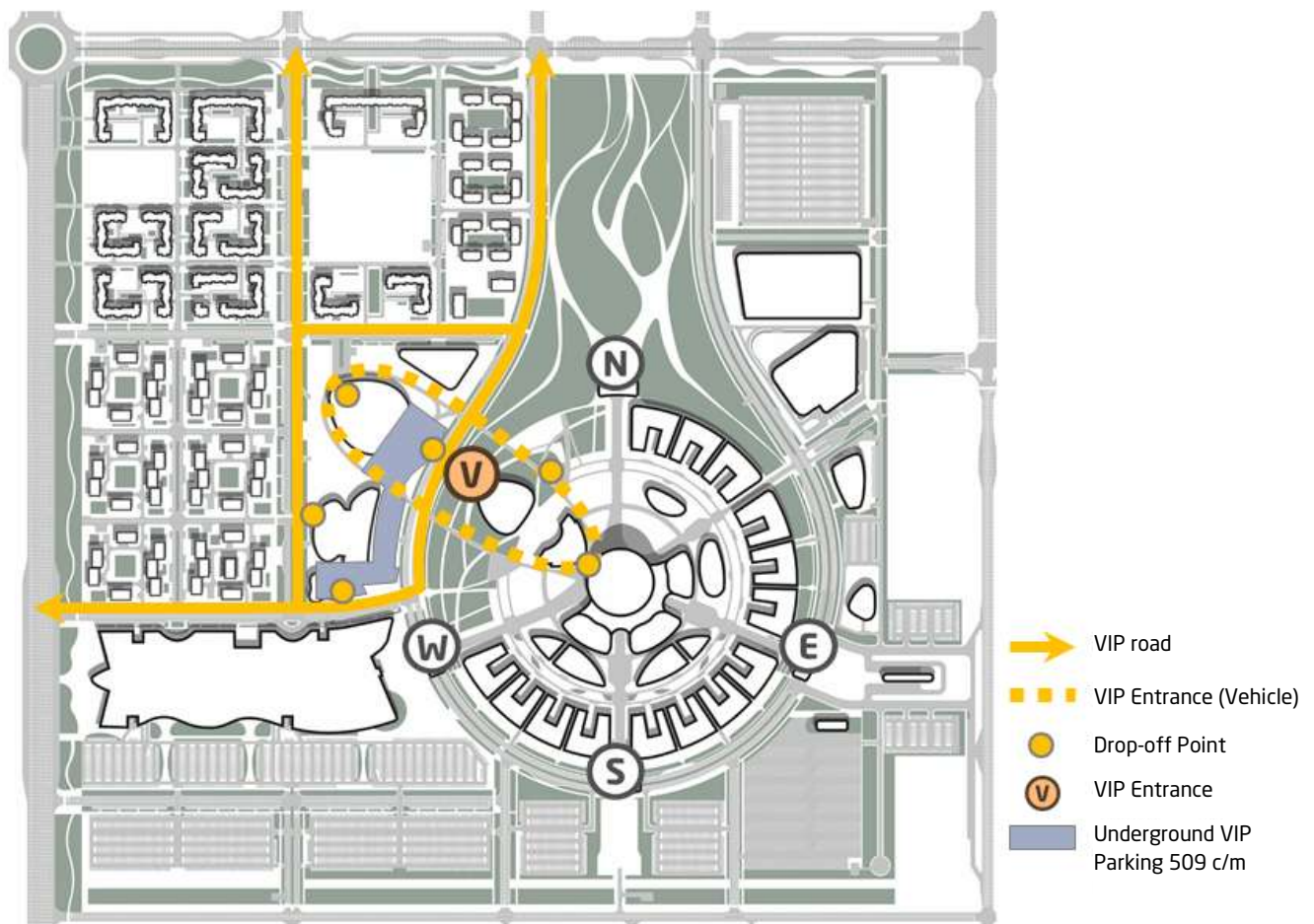


Figure: VIP access and parking plan

Parking spaces for VIP guests are to be located on the territory of the Congress Complex, to the north-west of the Auditorium and VIP guest entrance. During VIP receptions and press conferences in the Congress Complex and the working hours of EXPO Office, underground parking will be available for VIP guests, media representatives and employees of the company.

5.3.8 PEDESTRIAN ACCESS

The general outline plan envisages unencumbered and convenient pedestrian access for Exhibition visitors. The outer perimeter of the ring will have four main entrance lobbies and one VIP entrance equipped with ticket offices, turnstiles, medical points, security services and also emergency exits which can be used in cases of emergency:

- North pedestrian entrance
- South entrance for visitors arriving by public or personal transport
- East entrance for visitors arriving by personal transport or taxi
- West entrance for visitors arriving by personal transport, LRT or taxi
- VIP entrance from the Congress Complex

It is proposed that each waiting area be outfitted with special automated ticket machines and ticket offices. All visitor entrance lobbies will be furnished with sun shades in the hottest period and rain covers.

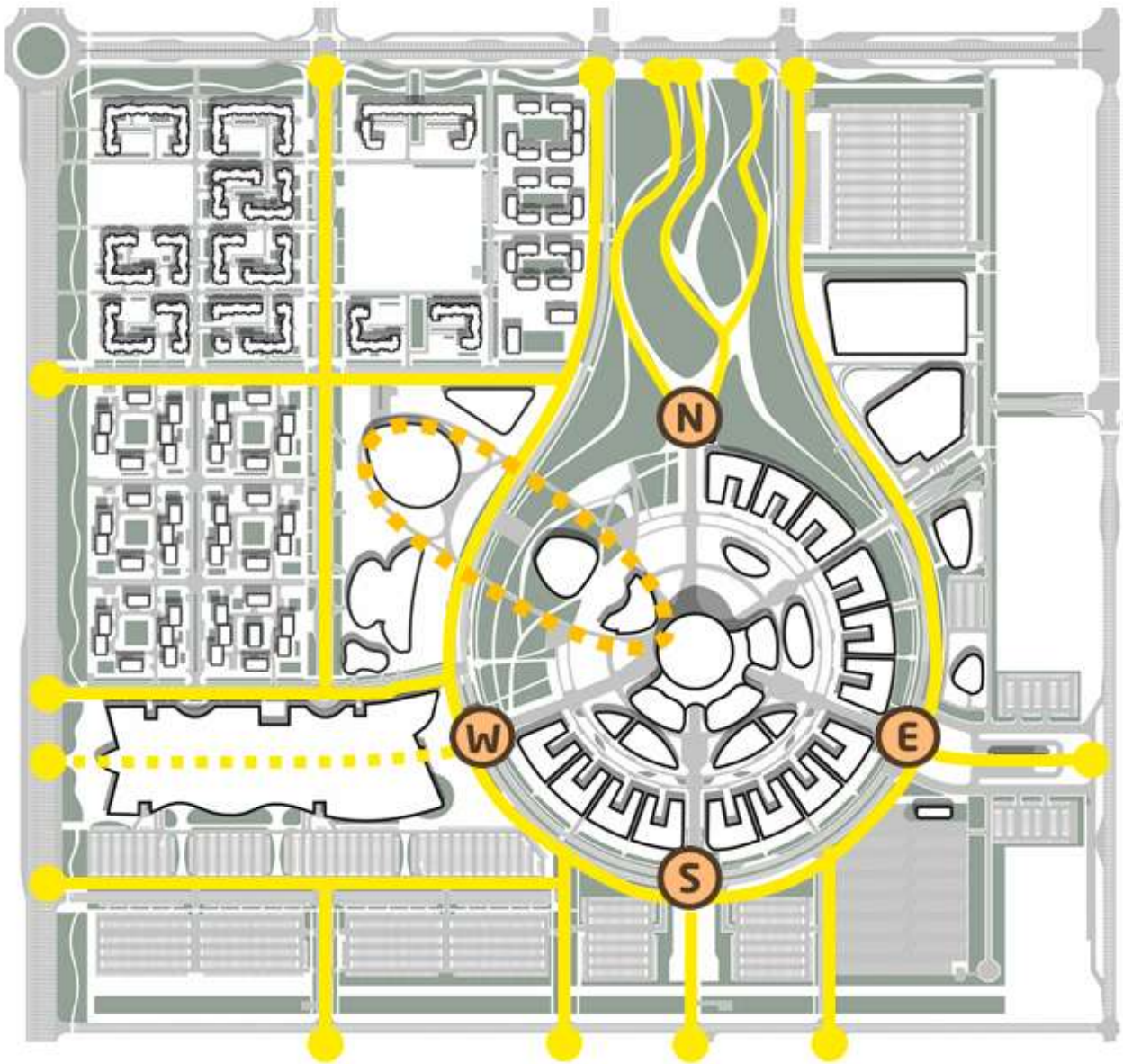


Figure: Pedestrian flow plan

5.3.9 SERVICE ACCESS

The service entrance will be located in the north-eastern part of the Exhibition Site; it will be equipped with a special security pass system and technical facilities. The location of the service entrance is convenient, because it provides vehicle exit directly to Orynbor Street. A special vehicle entrance in the northern part of the Exhibition Site from Hussein bin Talar Street provides access to both the warehouse and the service entrance of the Exhibition. The entrance to the underground parking is also located in front of the service entrance. The service entrance will require special documents for access to the Exhibition Site. This entrance will be used by security service representatives, technical support employees, suppliers, authorized personnel of the Official participants, tenants and the Organiser. Special personnel will monitor the access via the service entrance and inspect the loads delivered. During the delivery of goods and foodstuffs, the warehouse will be subject to sanitary-epidemiological, veterinary, phytosanitary control and security checks.

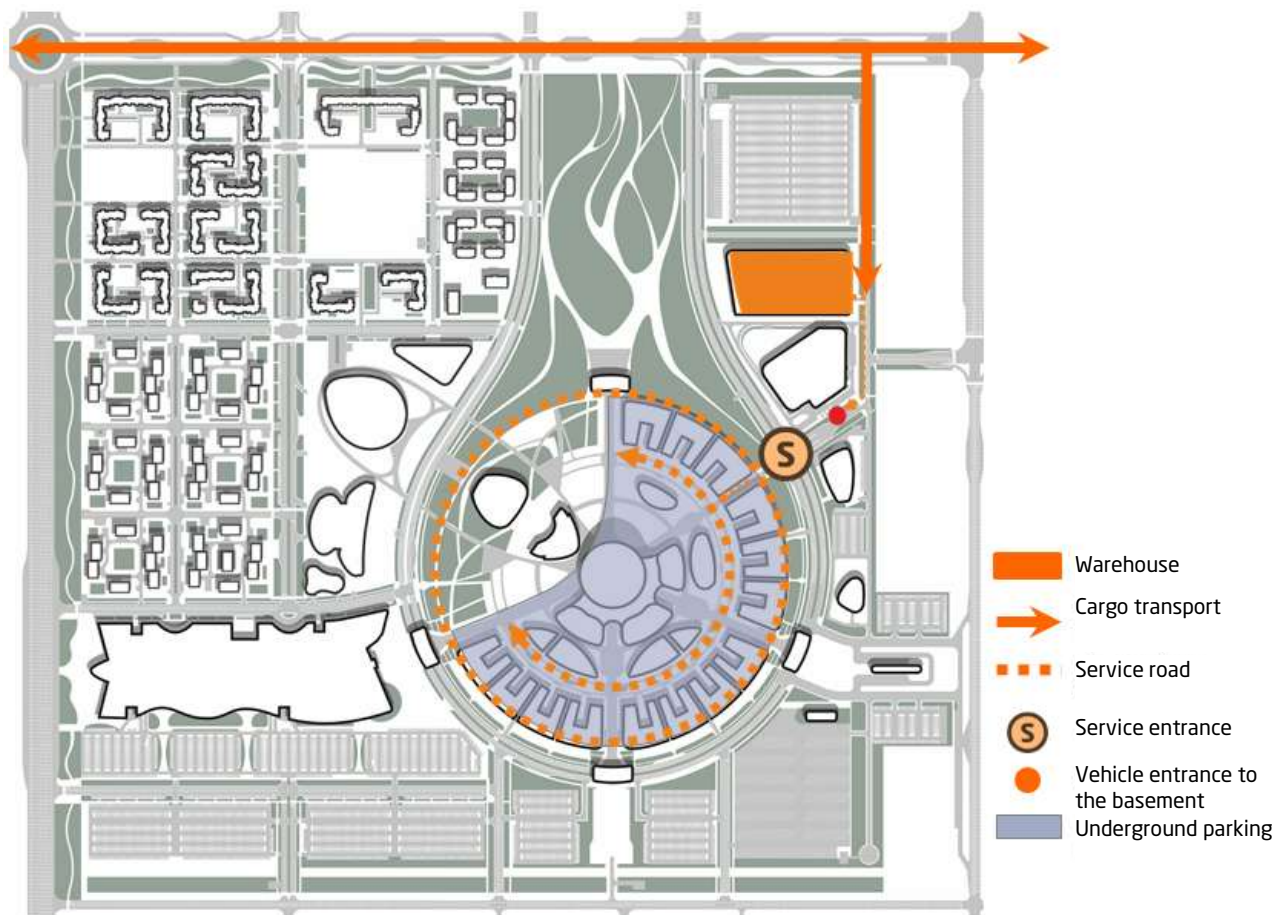


Figure: Service access plan

5.4. SECURITY

During the Exhibition, enhanced measures and a special security regime will be put into place to ensure public order and secure the Exhibition facilities, territory and accommodation of the Official participants' personnel. The Ministry of Internal Affairs of the Republic of Kazakhstan will be responsible for security and law enforcement during the Exhibition.

Security of the Exhibition facilities and the entire territory will be ensured by means of access control, monitoring equipment and materials delivered to the facilities, and also by anti-terrorist measures.

Access to the Exhibition Site will be granted at 6 entrance lobbies. 4 of them are for visitors, 1 for VIPs and 1 for service personnel. Each visitor entrance lobby will be equipped with 30 turnstiles; the VIP entrance will have 8 and the service entrance will have 10 turnstiles. Entrance lobbies will be equipped with an access control monitoring system and screening equipment.

Accredited personnel can pass screening at the visitor entrance lobbies in a special area as well as at the service entrance. Persons under the influence of alcohol or in possession of forbidden items shall not be permitted to the Exhibition.

For persons with disabilities there is a specially dedicated area.

All visitor entrance lobbies have emergency exits, where fire extinguishers and medical supplies are located.

Vehicle entrance to the Exhibition Site is limited for all types of transports, with the exception of VIPs and emergency equipment. The service entrance will be equipped with a vehicle screening system (of the underside and undercarriage). Vehicles transporting goods necessary for the Exhibition will be screened using mobile inspection and screening systems located on the territory of the logistics centre. Vehicles that service the Official Exhibition participants will be subject to a daily visual on-the-spot general inspection.

Vehicles are to be parked in the designated spaces fenced off by turnstile barriers and patrolled on a constant basis with sniffer dogs.

5.5. TECHNOLOGIES

The latest technologies will be used in construction and during the event, which is fully in line with Future Energy as a theme of the Exhibition. They will include smart technologies, renewable energy, using the latest materials in construction, as well as a sustainable and effective approach to the operation of the Exhibition facilities.

5.5.1. ENERGY-EFFICIENT AND SMART USE OF THE EXHIBITION FACILITIES

In order to optimize energy efficiency of the buildings, the Organiser will employ the latest energy metering technologies, which will include a number of innovations that ensure maximum reduction in energy use without detriment to comfort levels. For example, human presence detection sensors and lighting level sensors will reduce the amount of energy used.

Smart Grid technology will be used for reduction and levelling out of peak loads on the electrical grid and the integration of renewable energy sources into the Exhibition and city infrastructure. This technology will allow for real-time monitoring of energy use in all the large-scale facilities in order to make decisions on load distributions automatically.



Figure: The Smart City System

New technologies will be used for optimisation of vehicle parking and visitor flows around the Exhibition Complex. These systems will be directly linked to systems that ensure the security of Exhibition visitors and Official participants, which facilitates on-the-spot warning and response to emergency situations.

Alongside security systems and optimisation of energy use, augmented reality systems, the latest communications and interactive notification systems will be developed. Using mobile applications, these technologies will enable visitors to spend their time efficiently and conveniently interact with the Official and Non-official participants and the Exhibition Organiser.

5.5.2. TELECOMMUNICATIONS SERVICES

There will be an open WiFi network in operation on the entire territory of the Exhibition for convenient access to the Exhibition's mobile services. Multimedia broadcasts will also be offered via the WiFi network. This service will facilitate the use of wireless TV broadcasting.

Official participants will be provided with dedicated communication channels ("**VPN**"). VPN tunnels will be created by establishing a virtual "point-to-point" connection for the security of data transmission channels. Recognised access control monitoring servers will be in operation for authentication and access.

A mobile operator will be selected by the Organiser through a tender for the provision of telecommunication services. Furthermore, the Exhibition Complex will be covered by a national mobile operator network.

5.5.3. Data Processing Centre

A modern data processing centre ("**DPC**") will be built using the latest technologies in the Exhibition Complex. The DPC's operating capacity is designed for both the Organiser's services and those of the Official participants. Furthermore, Official participants will be provided with cloud services.

Protection of data from hacker attacks, penetration of the security perimeter and virus threats will be provided using the latest software and hardware.

5.5.4. Green Heating

The territory of EXPO 2017 in Astana will make use of innovative technology that recycles the heat generated by the data processing centre. The reliability of the data processing centre will be facilitated by the use of backup power.

The heat recovery system, based on heat generated by the servers, will use heat pumps to reduce the load on the heating system in the building of the Energy Research Centre. At 100% load, the data processing centre is able to generate up to 2.5 MW of heat.

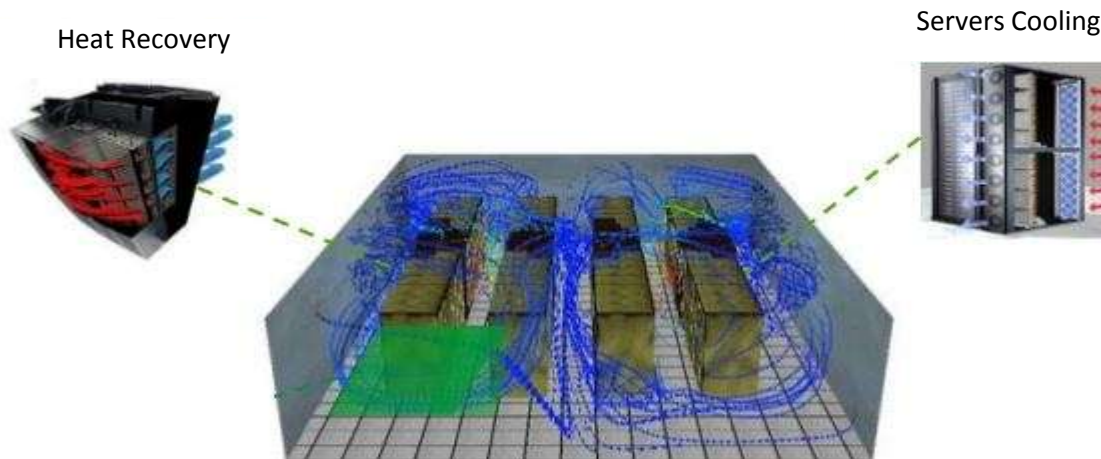


Figure: DPC Green Heating System

5.5.5. RENEWABLE ENERGY SOURCES

Solar Energy. Solar energy is the main source of life on Earth. The Exhibition Site will use solar energy both actively (for the generation of electricity and heat) and passively, taking into account the natural behaviour of the Sun in the course of design and construction stages, in order to ensure maximum inflow of natural light and thus reduce the load on heating and air conditioning.

In addition, solar panels produced in Kazakhstan will be installed for demonstration purposes. It is planned that this technology will be integrated into the south façade of the Art Centre. In line with the overall architectural concept, technologies will be used that produce electricity without breaching the Exhibition's conceived futuristic design.

Wind Energy. The Exhibition Facilities will be supplied with wind energy by means of silent wind turbines that can be installed within the city limits and do not depend on wind direction or fluctuations.

Two wind turbines will be installed at the top of the sphere. This will reduce power consumption from the grid. Further wind turbines will be located on the roof of the Organiser's Office on the territory of the EXPO Park.

Geothermal Energy. Geothermal energy is planned as a substitute energy source for heating of the Exhibition facilities. Since there are no hot groundwater sources in Astana on the territory of the Exhibition Complex, the technology that extracts heat from the earth using geothermal heat pumps will be employed. This is currently the most effective energy-saving, environmentally friendly heating and air conditioning system. In compliance with green building certification, refrigerants that meet modern international standards and do not harm the ozone layer of the planet will be used.

5.5.6. SMART PARKING SYSTEM

All parking spaces in the Exhibition Complex will be automated using the latest technologies. Various methods of vehicle authentication will be in use on vehicles that enter the territory of the Exhibition Complex. They will reduce the time taken on entering the territory and simplify the payment procedure. There will also be the possibility of booking a parking space using a WEB application.



6. OPTIONS AVAILABLE TO BUSINESSMEN

Not only “envoys” of different countries, but also representatives of different businesses and companies will have an opportunity to participate in the Exhibition. The following cooperation patterns are available to the companies considering their participation in the Exhibition:

1. CORPORATE PARTNER/SPONSOR OF THE EXHIBITION

A company can become a corporate partner of the Exhibition by joining the Exhibition sponsor program. Depending on the category of sponsorship, each partner is eligible for certain privileges. They include company pavilions on the Exhibition Site, advertising promotion in Kazakhstan and abroad and exclusive rights to sell company products on the Exhibition Site. There are four categories of sponsorship:

- Global sponsor (8 million Euros)
- Official partner/carrier (3.5 million Euros)
- Exhibition partner (1.75 million Euros)
- Exhibition companion (175 thousand Euros)

2. ORGANISER’S CONTRACTOR OR GENERAL CONTRACTOR

A company can participate in the Exhibition as a contractor delivering services, procuring and supplying goods or implementing works. To do that, a prospective contractor or general contractor should take part in the bidding process to win a contract with the Organiser (the list of announced bids will be available on the Organiser’s official website).

3. PARTNER/SPONSOR OF AN OFFICIAL PARTICIPANT

A company can participate in the Exhibition by establishing business relations with an Official participant. In this case, the company needs to contact the representative office of the country or the Official participant directly. The Organiser is not held responsible for any miscommunication problems arising between the company and the Official participant in the course of their interactions.

4. CONCESSIONARY

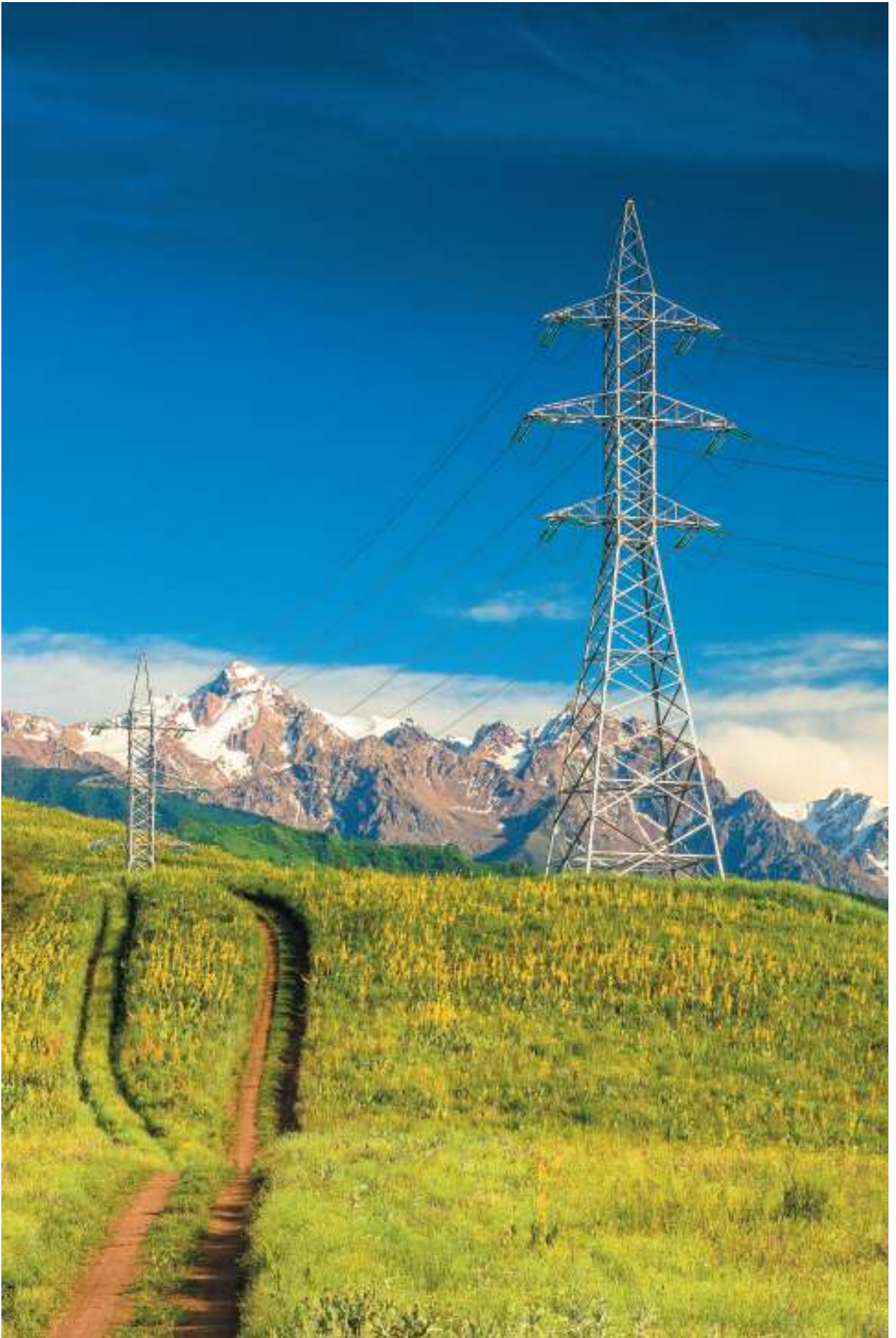
A company can take part in the Exhibition by establishing and operating a food service outlet (restaurant, cafe, bar, etc.) or a commercial shop (a pharmacy, a footwear store, airline representative office, etc.). The company has to pay royalties on sales of goods/services during the Exhibition period. It is expected that the Organiser will select concessionaires based on the competition results and the approved criteria.

5. PROTEGE COMPANY

A company can participate in the Exhibition by being put on the list of recommended companies, provided that it meets the Organisers’s requirements and is willing to pay fees. Protege companies are included in the unified catalogue for participants. Exhibition partners, sponsors and concessionaires are included in the unified catalogue at no charge.

The background is a solid light blue color with several large, overlapping, curved shapes in a darker shade of blue. These shapes create a sense of depth and movement, resembling stylized waves or abstract architectural forms. The text is centered horizontally and vertically within the lighter blue area.

FORMATION FOR THE PARTICIPANTS





7. PARTICIPATION IN THE EXHIBITION

The Organiser provides the Official participants with an exhibition space at no charge. The Organiser streamlines organisation and planning procedures described in detail in the present section. Some Official participants will have an opportunity to get financial aid in accordance with the special Financial Assistance Program developed by the Government of the Republic of Kazakhstan and described in paragraph 7.5 of the present section.

7.1. PARTICIPATION PROCEDURE

The Organiser has developed the following participation procedure for the Official Exhibition participants.

1. RECEIPT OF INVITATIONS BY THE OFFICIAL PARTICIPANTS

On 11 June 2014, at the 155th session of the General Assembly of the Bureau of International Exhibitions, ASTANA EXPO 2017 received an official recognition and the IEB's flag was brought to Kazakhstan. On the same day the Organiser of the Exhibition was granted the official right to hold a campaign promoting the Exhibition among states and organisations as the Official participants.

In August 2014, the Republic of Kazakhstan used diplomatic channels to send formal letters to different states and international organisations, inviting them to participate in the Exhibition.

2. OFFICIAL CONFIRMATION OF PARTICIPATION

States and international organisations that are willing to participate in the Exhibition must officially notify the Organiser and/or the Ministry of Foreign Affairs of the Republic of Kazakhstan of their decision.

Notifications can be forwarded through the diplomatic channels and/or sent in any other formal way.

3. APPOINTMENT OF THE NATIONAL SECTION COMMISSIONER

Official participants that have confirmed their decision to participate in the Exhibition must appoint a Commissioner of their National Section.

A confirmation of the appointment of a National Section Commissioner should be forwarded by diplomatic channels and/or in any other formal way to the Exhibition Organiser and/or to the Ministry of Foreign Affairs of the Republic of Kazakhstan.

4. PARTICIPATION REQUEST

Each Official participant should develop and present a “Theme Statement” reflecting the idea of its pavilion. In the course of activities, each participant needs to get across its vision of Future Energy as the Exhibition theme.

Participants fill out the Participation Request, showing the dimensions and shape of the required pavilion, and submit it to the Organiser.

5. ORGANISER ADVISORY SERVICES

Once the Participation Request has been received, the Organiser and the Official participant hold negotiations to discuss the compliance of the national pavilion concept with the participation terms.

To ensure the success of the Exhibition, the Organiser may alter the Exhibition Site layout at any time prior to signing of the Participation Contract. This does not give rise to any responsibility with respect to the Organiser.

6. ENTERING INTO A PARTICIPATION CONTRACT

The National Section Commissioner, the Organiser and the Exhibition Commissioner sign the Participation Contract.

All Official participants have equal rights and responsibilities, except for cases specified below.

The Organiser may offer more favourable financial terms to the Official participants falling under one of the following categories: the least developed countries, countries affected to the highest degree, landlocked developing countries and small island developing states (in accordance with UN’s list).

Financial aid may also be extended to international organisations taking part in the Exhibition as the Official participants.

ASTANA EXPO 2017 PARTICIPATION REQUEST

PARTICIPATION DETAILS			
Name of the officially participating country or international organisation			
Type of premises (individual/group) and area (square meters)			
Theme			
Additional information on the Theme and exhibition space		Specify your target audience, space layout plan and content (participants are encouraged to use extra pages to provide a detailed description)	
Special requirements			
Full name of the Commissioner		Address	
Phone number:		Email:	
Fax:		Cell phone number:	
Date		Commissioner's signature	

7.2. THEME STATEMENT

Being the theme of the Exhibition, Future Energy covers three sub-themes devoted to highly prioritized topics:

- Reducing CO₂ Emission
- Living Energy-Efficiency
- Energy for All

The Organiser develops the theme of the Exhibition in its facilities and spaces: in the Thematic Pavilions, Kazakhstan Pavilion public areas and Energy Best Practices Area (EBPA). In addition, the theme will be further elaborated in the course of forums, conferences, seminars, masterclasses and cultural events. The Official participants also develop the Exhibition theme in their pavilions. To do so, the Official participants should prepare a Theme Statement and present it for harmonization with the Organiser.

The Organiser shall provide comprehensive support and consultations to the Official participants to make sure that their display conforms to the Exhibition theme. To achieve this goal, the Organiser shall supply all necessary resources and support the harmonization process.

In line with the established participation procedure, the Official participants need to submit the following to the Organiser:

- A request for allocation of the Exhibition space in pavilions
- Theme Statement

The Theme Statement should contain the following information:

- pavilion name
- selected sub-themes, background information about the theme under development
- description of the pavilion and each area; content of the display, approach and key characteristics; exhibition space design and content technology. Please note that the exhibition contents need to be developed in the chronological order and support the storyline or scenario written for each area
- background materials providing explanation as to how the theme and sub-themes will be developed in the respective displays
- a general outline plan of the exhibition pavilion, exhibits and stands
- a draft description of operability (the pavilion's capacity, visit duration and overall organisational structure of the pavilion)

To develop the selected sub-theme and the exhibition content, the following exhibition areas are provided to the Official participants:

- The facade facing the Exhibition boulevard
- The back of the U-shaped pavilion
- The Exhibition square allocated for the Official participant

7.2.1. APPROACHES TO SUB-THEME DEVELOPMENT

The Official participants should develop each sub-theme by applying at least two out of five approaches listed below (in accordance with the general matrix of sub-themes and approaches):

1. Scientific research

Scientific data and studies related to Future Energy (concept development, electric power systems, new sources, types, trends, efficiency etc.);

2. Advanced technologies

Innovative engineering solutions: products and services (generation of electric power, its storage, transfer, distribution and consumption; power systems; safety; energy efficiency; convenience etc.)

3. Management

Public and private management decisions and their outcomes; national governments; regional and local governments; supranational and multilateral agencies and institutions; corporations; NGOs and non-profit organisations; other participants (management, productivity, strategies, policies, milestones, processes and projects)

4. Innovative business models

- Business plans for new energy markets
- New types of business
- Technology markets, business opportunities, connections
- Entrepreneurship etc.

5. Shift in values

The theme of the Exhibition can be developed in the context of social innovations, in particular—social media and other platforms.

Detailed guidelines on the Theme Statement development are presented in the annexes to the present Guide.

GENERAL MATRIX OF SUB-THEMES AND APPROACHES

FUTURE ENERGY	SUB-THEME	CORE CONCEPT	SOLUTIONS	PARTICIPANT INVOLVEMENT Theme development contexts
ENERGY AND SOCIETY LIMITED RESOURCES CLIMATE CHANGE POLLUTION CONSUMPTION SUSTAINABLE DEVELOPMENT	REDUCING CO2 EMISSIONS	Climate change is one of the most serious challenges that humanity is facing today and effective energy policy is closely connected to this process. Current consumption trends are unsustainable from the stand point of social life, economy and ecology Importance of reducing CO2 emissions through the development of clean and low-carbon energy technologies as well as through the decreased energy consumption Solution to the problems of climate change and sustainable development	<ul style="list-style-type: none"> • CARBON-BASED FUELS Technologies enhancing efficiency and reducing pollution Carbon Capture and Storage (CCS) Clean coal technology Other technologies • CARBON-FREE ENERGY RESOURCES RENEWABLE ENERGY Solar thermal energy Solar PV energy Tidal power Hydroelectricity conversion Wind energy Biomass Wave energy • HYDROGEN • THERMONUCLEAR ENERGY • ENERGY EFFICIENCY • SMART GRID • ENERGY STORAGE SOLUTIONS <p>Geothermal energy Ocean thermal energy</p>	<p>I. SCIENTIFIC RESEARCH Scientific knowledge and research related to the future of energy Concept development Energy systems New energy resources Different forms of energy use Trends Energy efficiency Other</p>
ENERGY SECURITY ACCESS TO ENERGY SOURCES	LIVING ENERGY EFFICIENCY	Energy efficiency implies energy preservation, cost and pollution reduction. Energy efficiency often means opting out for efficient implementation Priority should be given to the development of strategies aiming at reduction of greenhouse gas emissions and greater energy efficiency of cities, buildings and transport. Enhanced energy efficiency will play the key role in cutting down CO2 emissions. Achievement of this goal is vitally important in the short-term perspective. Application of the energy efficiency concept results in the decreased energy consumption, which affects all aspects of everyday life. This concept should be used as a guidance by everyone. Access to energy is a basic right of the developing world. This principle requires active promotion "Energy is vital for sustainable development and eradication of poverty. It affects all aspects of further development—social, economic and ecological, including availability of foodstuff, access to water, production of agricultural produce, public health, the size of population, education and gender issues." UN Development Program (UNDP)	<ul style="list-style-type: none"> • ENERGY EFFICIENCY • SMART CITIES AND COMMUNITIES Urban planning and construction. Design, orientation, materials, technological equipment—trigeneration, heating, ventilation and air conditioning control etc. Renewable technologies Overhauling of existing buildings Transport (Electric vehicles—EVs, hydrogen fueled cars, hybrid cars, biofuel, renewable source of power, smart grid) Waste recycling Reducing consumption Recycling • INDUSTRY Lighting Co-generation Trigeneration Cooling tower systems Heat pumps • SMART GRID • STORAGE OPTIONS Pumped-Storage Hydroelectric Power Plants Gravity Energy Storage Power-to-Gas (P2G) energy storage • STORAGE AS PART OF THE SYSTEM Isolated and island solutions Electric vehicles fleet Autonomous buildings Large-scale connection to Grid <p>Waste heat in cooling Waste heat storage Infrared thermography Monitoring equipment Other</p> <p>Compressed Air Energy Storage (CAES) Accumulators Condensers</p>	<p>II. ADVANCED TECHNOLOGIES Advanced engineering solutions Products and services Power generation Storage Transfer and distribution Consumption Energy systems Energy security Energy efficiency Convenience Other</p> <p>III. STRATEGIC MANAGEMENT Public and private management decisions and their outcomes; states; regional and local governments; supranational and other agencies; corporations; NGOs and non-profit organisations; other participants. Management Outcomes Strategies Policies Milestones Processes Projects</p>
ENERGY FOR ALL		To ensure availability of water supply and maintain sanitation standards in health care institutions, it is crucial to have access to advanced energy technologies. Efficient and reliable electric power supply is necessary for basic cooking, lighting and heating of houses; it provides electric power to mechanical, transport and telecommunication equipment and educational facilities. Availability of electric power is a key element of further advancement.	<ul style="list-style-type: none"> • ACCESS TO ENERGY SOURCES Autonomous power generation Advanced technologies Access to reliable electric power supply • SUSTAINABLE DEVELOPMENT Environment Economy growth Social justice Creation of new jobs • ROLE OF ENERGY IN THE FIGHT AGAINST POVERTY Expansion of electric power supply Energy reliability and security Quality of life Modern agriculture • DECENTRALIZED ENERGY SYSTEMS Bottom-up Decisions Intelligently clean cooking Intelligent Micro Grid Micro- and small hydroelectric engineering Solar houses <p>Access to the sources of clean energy Access to electric power and modern energy</p> <p>UN Objectives of Sustainable Development</p> <p>Health, education, transport Creation of new jobs Energy markets Financing Waste-to-Energy Biogas technologies Biogas technologies engineering</p>	<p>IV. GROUND-BREAKING BUSINESS MODELS Business plans for new energy markets New types of business plans Technology markets Business opportunities Other</p> <p>V. SHIFT IN VALUES Shift in values driven by social innovations distributed through social networking websites and other platforms (cloud computing, etc.). Behavior Cooperation</p>

7.3. DESIGN, CONSTRUCTION AND ASSEMBLY WORKS

The Organiser provides the Official participants with exhibition spaces in the International pavilions (free of charge), where they can set up their displays in accordance with the presented Theme Statement.

Prior to the beginning of construction and assembly works in the pavilions, the Official participants should do the following:

- develop a Display Design: a schematic design of pavilions and the respective design documentation which should also include information about planned displays etc.
- agree upon the developed Display Design with the Organiser pursuant to the established order
- obtain licenses and/or permits required for the respective activities in the Republic of Kazakhstan

Prior to the beginning of design works, the Official participants must apply to the Organiser for source design data, licenses and/or permits necessary to implement the design of pavilions. To address this issue, the Organiser will establish a Technical Office to maintain cooperation with the Official participants in the real time mode.

In the course of design, construction and assembly works, the Official participants coordinate their activities with the Design and Construction Coordinator appointed by the Organiser.

The Official participants, except for those participating in the Financial Assistance Program, bear all the expenses arising out of or in connection with the design, construction and assembly works in their pavilions both before and during the Exhibition, as well for the dismantling works after the Exhibition.

The Official participants should provide the Organiser with the Pavilion Design for preliminary consideration and approval in the period from 1 February 2016 to 1 August 2016. Review and coordination of the Pavilion Designs must be completed before 1 October 2016.

Pavilions shall be provided to the Official participants to begin the construction and assembly works in the pavilions and set up displays on 2 January 2017 at the latest. Starting from 3 April 2017, the Official participants are allowed to start delivering their exhibits. Installation of the equipment and interior design works are scheduled to be completed by 8 May 2017. Installation of display exhibits, the completion of construction, installation works and commissioning works should be completed by 26 May 2017. Dismantling works and works undertaken to return Pavilions to their initial state must be completed in the period from 20 September 2017 to 15 December 2017.

The pavilions are deemed brought to initial state only when the Organiser provides an Official participant with a written confirmation drawn up after the joint inspection of the respective pavilion by the Official participant and the Organiser.

Detailed information about the unified rules, the Organiser's directives and Official participant's responsibilities related to design, construction and assembly works in the respective pavilion is provided in Special Regulations No. 4 and Design and Construction Guidelines for Official Participant's of the International Recognised Exhibition EXPO 2017, which are included in these Participation Guide.

7.4. BUSINESS OPPORTUNITIES

Business license

To carry out commercial and other activities in the national sections, a permission must be obtained in accordance with the General Regulations, Participation Contract or a decision issued by the Exhibition Commissioner. The aforementioned activities are the sole responsibility of the respective National Section Commissioner.

For the national sections to comply with provisions of Article 1 of the Convention, the space allocated for commercial activities and opened to visitors must not exceed 20% of the total area of a national section.

The Organiser provides premises for a restaurant based on the Official participant's request.

I. Restaurants

- Restaurants are necessary to provide the visitors of the Exhibition with catering services
- Restaurants must contribute to the promotion of the thematic content and/or increase the overall attractiveness of the Exhibition to visitors

Restaurants in the national sections

In accordance with the conditions set forth in Special Regulations No. 9, the Official participants are allowed to open restaurants offering predominantly their national cuisines.

The Official participants intending to open restaurants should agree with the Organiser upon the category of a restaurant, menu type, price list, location, area, size, style, the number of employees and style of management.

Licensed Restaurants

Different types of restaurants will be located in commercial areas of the Exhibition. Local and international brands need to participate in an open bidding, in order to set up and operate the restaurants.

II. Shops

- Commercial activities facilitate dissemination of culture and diversity of the Official participants, while contributing to the promotion of their countries and national landmarks
- Commercial activities appeal to visitors who wish to buy original items and souvenirs available only in a limited number of places

Souvenir shops in national sections

In accordance with the conditions set forth in Special Regulations No. 9, the Official participants may sell photographs, including slides and postcards, audio and video recordings (on tape, CD or DVD discs), books and stamps delivered from their countries.

In addition to items specified in Special Regulations No. 9, the Official participants may also sell a limited number of ethnic items typical of their countries or corporate souvenirs of an international organisation after obtaining a permission from the Organiser.

Retail outlets

Retail outlets will be located in the commercial areas of the Exhibition. Local and international brands need to participate in an open bidding in order to set up and operate the respective retail outlets.

III. Royalty

In accordance with terms and conditions of the Participation Contract, the Official participants should pay royalty, if they generate revenue from any commercial activity.

The Official participants must pay royalty on total revenue received from the commercial activities (net of sales taxes or other taxes). Royalty is paid to the Organiser in accordance with the procedure agreed upon by both parties. The Organiser may request a security deposit (10% of a 93-day forecasted revenue).

The following royalties apply to the Official participants and holders of business licenses, based on categories:

- Sit-down (family) restaurants—3%
- Fast food restaurants, cafes/bars—6%
- Confectionaries, delicacies and beverages—8%
- Shops—8%

In addition, the Participants are entitled to open a restaurant or a lunchroom solely for the needs of their staff. In this case, they do not have to pay any fees to the Organiser.

Special Regulations No. 9 and Commercial Activities Guide contain detailed information concerning commercial activities.

7.5. FINANCIAL ASSISTANCE PROGRAM

7.5.1. PROGRAM DETAILS

In order to grant comprehensive support and assure that certain countries and international organisations have sufficient means to participate in the Exhibition and to successfully develop the theme of the Exhibition in compliance with the rules and procedures elaborated by the Bureau of International Exhibitions, the Government of the Republic of Kazakhstan has developed a Financial Assistance Program (“the Program”), which is to be implemented by the Organiser in partnership with the Ministry of Foreign Affairs of the Republic of Kazakhstan.

The Ministry of Foreign Affairs of the Republic of Kazakhstan identifies the participants of the Program based on Kazakhstan’s foreign policy and UN classification:

- a) LDC (The least developed states)
- b) SIDS (Small island developing states)
- c) LDC (Landlocked developing countries)
- d) International organisations

7.5.2. PROGRAM PRINCIPLES

The Program does not provide for any cash funds issued to the participants. Financial aid implies covering service costs that are agreed upon with each participant of the Program in advance.

7.5.3. LIST OF SERVICES RENDERED UNDER THE PROGRAM

The scope of services to be rendered to each participant is determined through bilateral and multilateral negotiations between the participants and the Organiser. The following services may be rendered:

Provision of general elements

- Design development and provision of the required equipment in the pavilions
- Common areas design
- Content development
- Content production
- Fit out and dismantling works
- Common areas insurance

- Per diem expenses
- Uniform (suits).

Other services

- Office furniture, equipment etc.

Provision of local staff

- Pavilion Director
- Deputies
- VIP visitors and Protocol Manager
- Communications Manager
- Administrative support
- Stand assistants (guides) for common areas of the pavilion.

Cultural and entertainment program

- Actors (fee payment)
- Travel expenses (air travel, accommodations, per diem expenses)

Operations support

- Utility services (water supply, electricity etc.);
- Cleaning services
- Security services
- Local trips
- Insurance

Travel expenses of the participant's staff

- Air travel
- Accommodation in the EXPO City

Organisation of the National Day

- Business trip expenses (air travel, accommodation, per diem expenses, visa and insurance expenses, ground transportation expenses)
- Formal reception

7.6. SEE AGREEMENT

Based on the experience of the past exhibitions, in particular EXPO-2008 Zaragoza and EXPO-2015 Milan, and in order to create favourable conditions for the Official participants, it was decided to develop an agreement between the Government of the Republic of Kazakhstan and the Bureau of International Exhibitions. The agreement provides for privileges and preferences for the Official participants with regard to participation in ASTANA EXPO 2017 ("**See Agreement**").

The See Agreement project, which is being developed now, establishes privileges and preferences in terms of visa support, fiscal payments and customs duties, educational services, recognition of driving license etc.

To assure unimpeded entry for the Official participants, the government has approved free multiple entry visas for the Commissioner of a section, staff members and their families, as well as mass media.

To provide fiscal relief, the Official participants are exempt from corporate taxes, personal income tax and social taxes. There also will be a procedure for VAT recovery.

Foreign goods intended for official use at the Exhibition are exempt from customs duties.

The Official participants can use their driving licenses, provided they were issued by the member states of UN Convention on Road Traffic dated 8 November 1968.

Family members of the Section Commissioner and Deputy Commissioner as well as of the Pavilion Directors have an opportunity to study at Astana educational institutions of any type and level during the school year in the official or Russian language, except for educational institutions of special state agencies or law enforcement bodies.

In order to provide services to the Official participants, the Organiser will establish a Unified Service Centre operating as a one-stop shop. The Centre will render public and other services.



8. VISAS, MIGRATION REGISTRATION AND WORK PERMITS

The Organiser takes all necessary measures to provide support to the Official participants in terms of entry into and exit out of the country, as well as their stay in the Republic of Kazakhstan.

VISAS

The Official participants and mass media representatives get free multiple 12-months entry visas to the Republic of Kazakhstan. If necessary, the visa term may be extended until 31 December 2017.

Visas are issued within 2 weeks from the application date. The Official participants can receive visas at foreign establishments of the Republic of Kazakhstan or at the consulate stations of the Ministry of Foreign Affairs of the Republic of Kazakhstan located in Astana, Almaty or Atyrau international airports. Citizens of the countries, which do not have consular institutions of the Republic of Kazakhstan, get visas in airports as part of visa assistance program or at the instruction of the Ministry of Foreign Affairs of the Republic of Kazakhstan.

There will be two types of visas available: non-immigrant and immigrant visas. The non-immigrant category includes business visa (D1-8), investor visa (C1, C2), service visa (B1-3) and tourist visa (F1). Work visa (M1-5) falls within the immigrant category.

More detailed information on visa matters will be available after signing and ratification of the See Agreement.

MIGRATION REGISTRATION

Foreigners temporary residing in the Republic of Kazakhstan have to register with the competent bodies within 5 calendar days from the date of entry. The term established for migration registration is from 1 to 3 days.

Citizens of the Russian Federation, whose stay does not exceed 30 calendar days, are exempt from mandatory registration. In case they stay in the Republic of Kazakhstan for over 30 calendar days, they have to apply for migration registration in accordance with the established order.

The Official participants can apply for migration registration at the Unified Service Centre for the participants.

WORK PERMIT

Foreign labour quota rules do not apply to the Official participants. They do not need to receive work permits in order to carry out operations in the Republic of Kazakhstan pursuant to the Law of the Republic of Kazakhstan on introduction of amendments and changes to some legislative acts of the Republic of Kazakhstan regulating the issues of organisation and holding of the International Recognised Exhibition EXPO 2017 Astana.



9. REGISTRATION AND TAX ACCOUNTING

9.1. REGISTRATION OF A PERMANENT ESTABLISHMENT

To participate in the Exhibition, a legal entity of the Official participant should register a permanent establishment ("**PE**") in the Republic of Kazakhstan (its fixed place of business in the Republic of Kazakhstan). It can be set up based on Article 5 of the Convention (Agreement) for avoidance of double taxation and prevention of evasion of income or capital (property) tax ("**DDT**") ratified by the Republic of Kazakhstan or, in case DDT is not applicable, in accordance with Article 191 of the Tax Code of the Republic of Kazakhstan.

To incorporate a PE, the Official participant needs to file a registration application no later than 30 calendar days from the start date of its operations in the Republic of Kazakhstan. In case the Official participant fails to observe the established term, it will bear administrative responsibility in the form of a warning or fine.

In order to register a PE, the Official participant should refer to tax authorities at PE location; if a PE conducts business only on the Exhibition Site, the Official participant should refer to Yesil Complex Office of State Revenues in Astana.

Registration request together with notarized copies of the following documents translated into Kazakh or Russian language should be submitted to tax authorities:

- Constituent documents
- Documents confirming state registration of the company in the country of incorporation, containing the state registration number (or its equivalent)
- Documents confirming registration with tax authorities in the country of incorporation of the company, containing tax identification number (or its equivalent)

Tax authorities register a PE and issue a Certificate of Registration in the established standard form within 5 business days from the registration request submittal date. It is considered a taxpayer upon the completion of the mandatory registration with tax authorities.

9.2. TAX INCENTIVES

The following tax incentives are planned to be introduced for the Official participants:

- Exemption from *corporate income tax*
- Exemption from deduction and payment of *personal income tax* normally withheld from the paychecks of employees who are non-citizens and non-residents of the Republic of Kazakhstan
- Exemption from payment of *social tax* normally deducted from the company expenses related to payment of salaries to employees who are non-citizens and non-residents of the Republic of Kazakhstan

In addition, the Official participants can *refund VAT* charged on the cost of goods, works and services required for the construction, installation, setting, operation, and dismantling of its pavilions. VAT refund procedure is similar to the one established for diplomatic representative offices of foreign states and is set out in the Tax Code of the Republic of Kazakhstan.

The Official participants are not exempt from payment of personal income tax and social tax, if their employees are citizens or residents of the Republic of Kazakhstan. In addition, the Official participants deduct the mandatory *pension contributions* from the salaries of such employees and transfer them to the Accumulated Pension Fund of the Republic of Kazakhstan; *social contributions* are also deducted and transferred to the State Social Insurance Fund of the Republic of Kazakhstan.

9.2.1. PROCEDURE AND TERM FOR TAX RETURN SUBMITTAL

The Official participants should file the following tax forms with tax authorities of the Republic of Kazakhstan:

- Corporate Income Tax Return (Form 100.00)—once a year, no later than 31 March of the year following the reporting calendar year or upon the completion of business activities by PE—before the end of 2017
- Personal Income Tax and Social Tax for citizens of Kazakhstan (Form 200.00)—quarterly, no later than on the 15th day of the second month following the reporting calendar quarter.

Filing rules for the above-mentioned forms will be available for the Official participants on the web portal.

Tax forms (returns) are submitted as hard copies or electronically. The Official participant should submit hard copies of the tax forms (returns) to the Unified Service Centre for the participants located in the Exhibition Complex or send it by registered mail with the return receipt to Yesil Complex Office of State Revenues in Astana. Tax forms (returns) in electronic form are submitted by the Official participant online via the Taxpayer's Cabinet (www.cabinet.salyk.kz).

In case the Official participant fails to observe the established term, it will bear administrative responsibility in the form of a warning or fine.



10. INSURANCE

The Organiser will select an official insurance partner of the Exhibition (“**the Partner**”). To receive insurance services in Kazakhstan, the Official participants can refer to the Partner or choose an insurance company either from the list of companies recommended by the Organiser or any other insurance company licensed to render the relevant insurance services in the Republic of Kazakhstan. The list of insurance companies will be posted on the website of the National Bank of the Republic of Kazakhstan.

To better accommodate the Official participants, the Partner’s services will be available at the Unified Service Centre for the participants. The Organiser guarantees that the Partner’s service fees will not exceed the market. To sign an insurance contract (for any class of insurance), the Official partner needs to file an application with the Partner (or with another insurance company it selected), sign an insurance contract and pay the insurance premium. The application form is provided by the insurance company.

All classes of insurance are to be maintained by the Official participants on their own and at their expense.

Upon the arrival in Kazakhstan, the Official participants should conclude contracts for the following mandatory insurance services:

- Work accident insurance duties
- Third party liability insurance
- Vehicle owners’ civil liability insurance
- Employee health insurance
- Insurance of goods and assets of the Participant and the Organiser
- Legal liability insurance
- Construction and assembly insurance

The Participant may obtain voluntary insurance at its own discretion in accordance with the legislation of the Republic of Kazakhstan.

Insurance details will be provided in Special Regulations No. 8 and the Insurance Guidelines for the Official participants.



11. SHARED SERVICE CENTRE FOR THE PARTICIPANTS

A Unified Service Centre for the participants ("**the SSC**") will be established in the Exhibition Complex to assist and grant advisory, public and other services to the Official participants.

Representatives of state bodies and commercial organisations, employees of the Organiser and volunteers provide assistance, rendering advisory services and information support to the participants in the SSC in the period from 1 September 2016 to 25 December 2017. The SSC will be located close to the Exhibition Site.

The following preliminary list of services to be rendered by the SSD has been defined by now:

1. MIGRATION REGISTRATION

The SSC renders assistance in terms of migration registration to the Official participants.

2. REGISTRATION OF THE OFFICIAL PARTICIPANT'S PE

The SSC assists in registration of a permanent establishment of the Official participant and provide full scope of information regarding the procedure for PE registration in Kazakhstan.

3. OPENING A SETTLEMENT BANK ACCOUNT AND RENDERING CASH MANAGEMENT SERVICES

The Official participants are able to use services offered by a branch of the Organiser's partner-bank (account opening, management and closing, along with consultations on bank products and services).

4. FINANCIAL OFFICE

The Official participants are offered accounting and tax support, assistance in registration and closing of permanent establishments in Kazakhstan; bank account opening, closing and cash management services as well as consultations on conducting business activities; simultaneous accounting of business activities and taxation.

5. TECHNICAL OFFICE

The Technical office is the Organiser's structural division that performs the coordination of Official Participants' activity on the territory and within the holding of and preparation for the International Recognised Exhibition EXPO 2017 Astana.

The main functional areas of the Technical Office include:

- information and technical support of Official Participants;
- coordination of design, construction and installations works, monitoring of construction and installation works of the Official Participants;
- review and approval of Pavilion Designs;
- issuing source data for the Pavilion design;
- coordination of Official Participants interaction with the municipal authorities of Astana and government authorities of the Republic of Kazakhstan regarding the design, construction and installation operations of Pavilions;

The Technical office serves for the maximum simplification of going through permit procedures required for Pavilion design and construction, support of Official Participants regarding information and interaction with all the necessary authorities of Astana and the Organiser. Also, the Technical Office consults the Official Participants' representatives concerning interaction with other participants of the Exhibition, municipal authorities from a technical point of view, and issues explanations and references on regulatory construction documents in force on the territory of the Republic of Kazakhstan.

6. NOTARY SERVICES

The Official participants may apply to the SSC in order to authenticate document copies, extracts and signatures; verify the accuracy of documents translated from one language into another; notarize translations of driving licenses into Kazakh or Russian etc.

7. INSURANCE

The Official participants must insure their assets, employees and activities carried out at the Exhibition. Representatives of the official insurance partner company of ASTANA EXPO 2017 will be present at the SSC to consult the Official participants. Here the parties can also sign mandatory or voluntary insurance contracts.

8. CUSTOMS CLEARANCE

The Official participants can get advisory services on how to declare foreign goods intended for organisation and holding of the Exhibition, as well as learn about specific features of customs procedures and customs legislation of the Republic of Kazakhstan.

9. SANITARY AND EPIDEMIOLOGICAL SUPERVISION

The SSC renders advisory services, support and assistance to the Official participants and inform them about the standards applied to food service outlets, consult them on sanitary and epidemiological surveillance issues (sanitary, veterinary and phytosanitary audit procedures) and provide details about the Hygiene Certificates for facilities (buildings and premises), projects, products, works and services.

10. LINGUISTIC SERVICES

The Official participants can have documents translated into Russian, Kazakh, English and French languages by certified translators at the SSC. Linguistic companies provide these services to the Official participants.

11. REGISTRATION OF RADIO-FREQUENCY SPECTRUM

The Official participants can receive advisory services, support and assistance with regard to registration of radio-frequency spectrum at the SSC and obtain permits to use the registered radio-frequency spectrum.



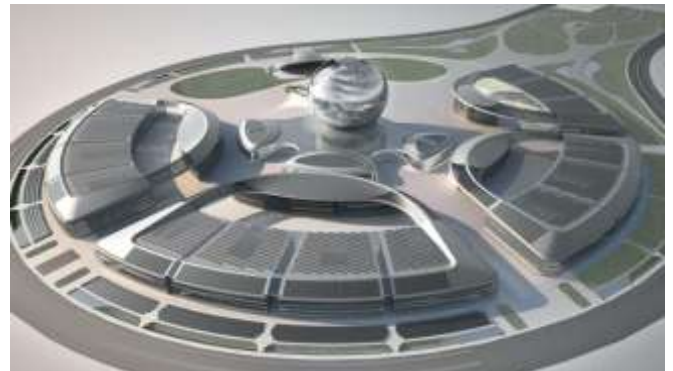
12. INTERNATIONAL PARTICIPANTS' PAVILIONS

12.1. LOCATION



The Master Plan was designed with a view to provide all visitors of the Exhibition with an equal and easy access to the International pavilions. The buildings of the International pavilions are arranged along the outer concentric circle of the ring at equidistance from the central element of the Exhibition Site—the Kazakhstan Pavilion (the Sphere). Each cluster of pavilions is nestled between the pedestrian esplanades which directly connect visitor entrances and employee vehicle entrance to the central area surrounding the Kazakhstan Pavilion.

International pavilion clusters are spatially linked with the Thematic Pavilions at the roof level, as well as with the Ring Boulevard, thus forming a Thematic Route. The 42.5 m wide boulevard can facilitate streamlining and even distribution of large groups of Exhibition visitors. To better accommodate guests and create harmonious environment, the boulevards are enhanced with recreation landscape areas, temporary fast food kiosks and other service facilities.



12.2. PAVILION STRUCTURE

International pavilions are 14 similar interconnected two-storey U-shaped buildings with covered atria facing the Ring Boulevard. Though spatial groups of pavilions are clustered together, they, nevertheless, remain separate independent buildings, each with its own access.

Total area of 14 pavilions is 161,831 square meters, while the area of the above ground space is 100,822 square meters.

Semi-basement height is 5.4 meters

1st floor height is 8.5 meters

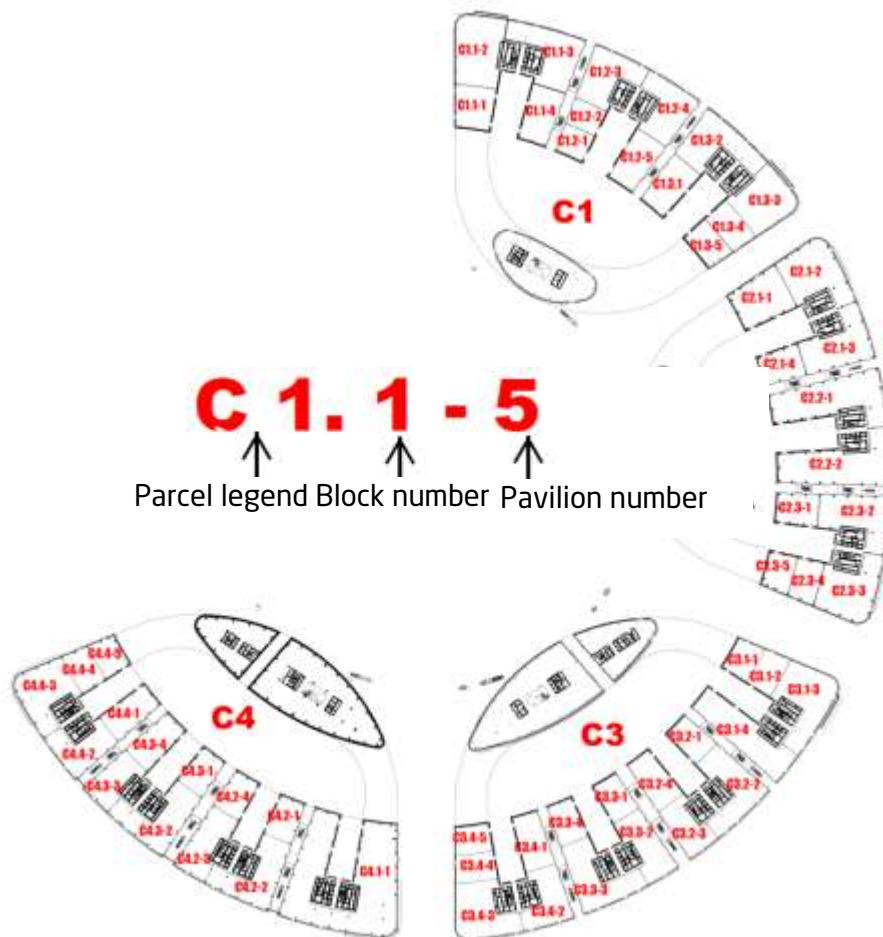
2nd floor height is 4 meters.

The inner atria houses ticket offices and comfortable queue waiting areas for visitors. They also feature moderate-sized areas for vendor machines and ATMs.

The airy and open layout of the 1st floor provides for flexible organisation of the interior space of pavilions in accordance with individual preferences of the Official partners in terms of displays arrangement and compliance with the selected interior design concept.

Since the buildings are intended for prospective post-exhibition use, an additional floor (mezzanine) can be added halfway from the finished first floor level of the building, at the height of 4.1 meters. Should it be necessary for the Official participants, parts of the mezzanine can be mounted during the Exhibition to form separate areas conforming to the overall interior design concept of the pavilion space.

The upper floors of the International pavilions house administration premises, participants' offices and auxiliary storages. For the Official participants to have an opportunity to demonstrate their national cuisine, the pavilions have areas suitable for full cycle restaurants. Each pavilion is equipped with passenger and freight elevators servicing the Underground (-1) level and upper floors.



Parcel C1 EXHIBITION AREA		Parcel C2 EXHIBITION AREA		Parcel C3 EXHIBITION AREA		Parcel C4 EXHIBITION AREA					
C1.1	C1.1-1	563 sq. m	C2.1	C2.1-1	462 sq. m	C3.1	C3.1-1	350 sq. m	C4.1	C4.1-1	3020 sq. m
	C1.1-2	1144 sq. m		C2.1-2	1143 sq. m		C3.1-2	396 sq. m		C4.2-1	407 sq. m
	C1.1-3	982 sq. m		C2.1-3	1008 sq. m		C3.1-3	1127 sq. m		C4.2-2	987 sq. m
	C1.1-4	612 sq. m		C2.1-4	862 sq. m		C3.1-4	1137 sq. m		C4.2-3	747 sq. m
C1.2	C1.2-1	293 sq. m	C2.2	C2.2-1	1461 sq. m	C3.2	C3.2-1	403 sq. m	C4.2	C4.2-4	403 sq. m
	C1.2-2	317 sq. m		C2.2-2	1461 sq. m		C3.2-2	986 sq. m		C4.3-1	407 sq. m
	C1.2-3	835 sq. m		C2.3-1	457 sq. m		C3.2-3	620 sq. m		C4.3-2	997 sq. m
	C1.2-4	834 sq. m		C2.3-2	1009 sq. m		C3.2-4	556 sq. m		C4.3-3	589 sq. m
	C1.2-5	612 sq. m		C2.3-3	1083 sq. m		C3.3-1	407 sq. m		C4.3-4	550 sq. m
C1.3	C1.3-1	611 sq. m	C2.3	C2.3-4	413 sq. m	C3.3	C3.3-2	747 sq. m	C4.3	C4.4-1	550 sq. m
	C1.3-2	985 sq. m		C2.3-5	366 sq. m		C3.3-3	986 sq. m		C4.4-2	712 sq. m
	C1.3-3	988 sq. m					C3.3-4	403 sq. m		C4.4-3	1002 sq. m
	C1.3-4	448 sq. m					C3.4-1	550 sq. m		C4.4-4	396 sq. m
	C1.3-5	408 sq. m					C3.4-2	712 sq. m		C4.4-5	350 sq. m
						C3.4	C3.4-3	1002 sq. m			
							C3.4-4	396 sq. m			
							C3.4-5	350 sq. m			

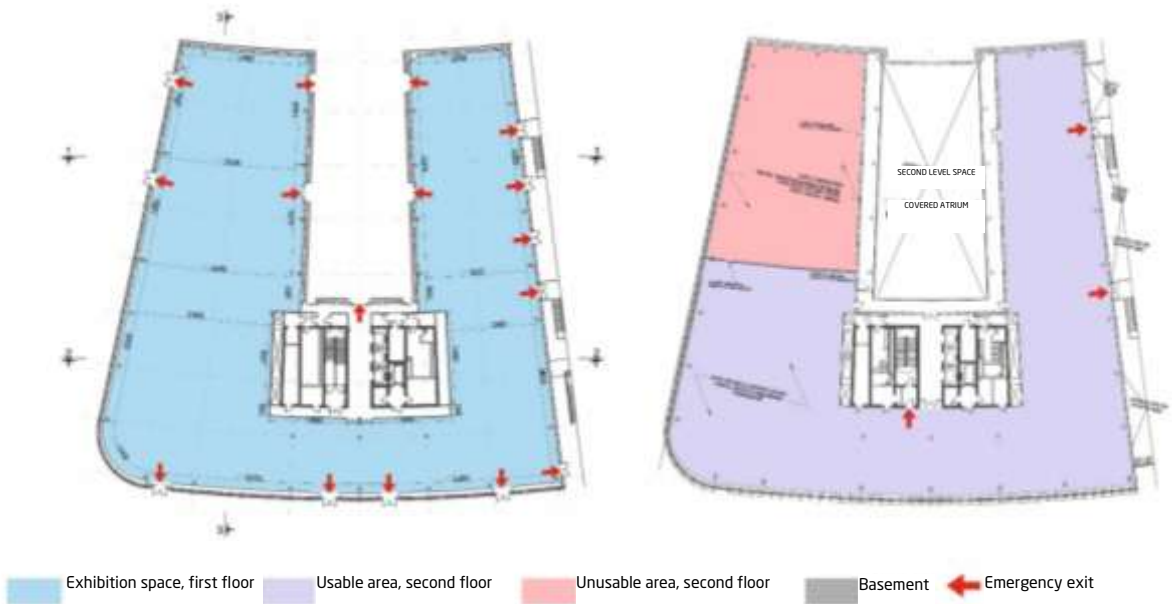
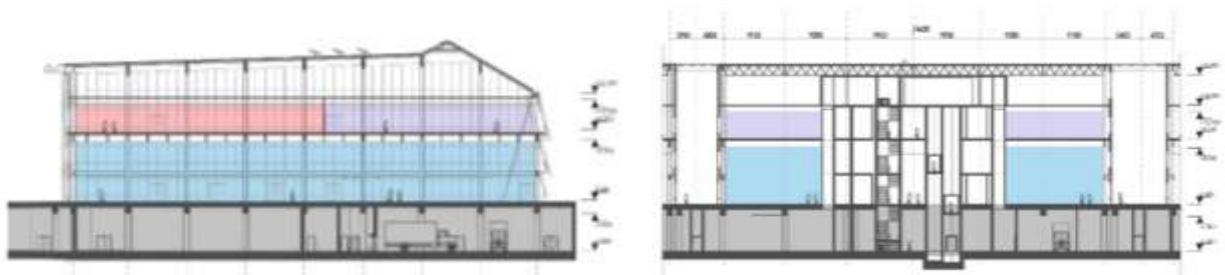


Figure: First and second floor layout



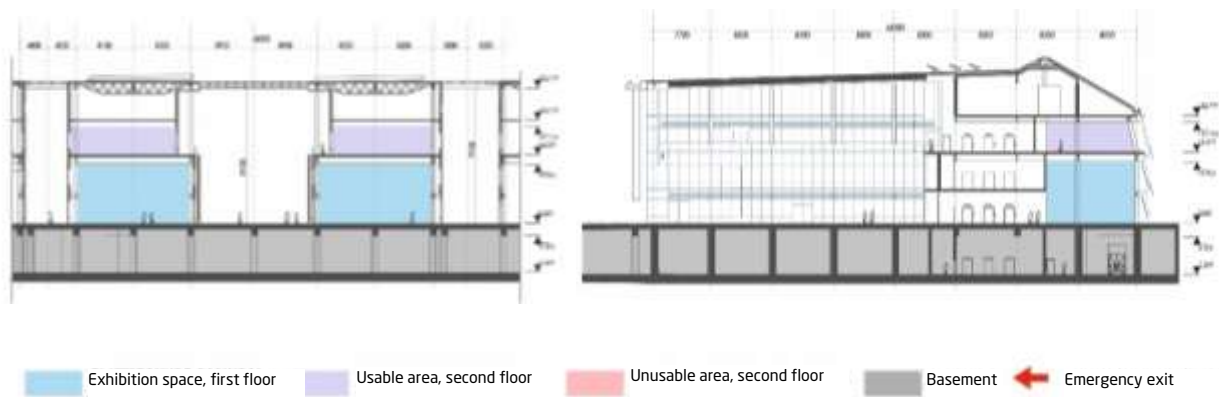


Figure: Sections

There are utility engineering service rooms and temporary storages accessible through a cargo tunnel for exhibits handling in the underground level. To ensure exhibits safety, storage premises are enclosed with a chain-wire mesh.

The pavilions are fitted with Building Automation Control Systems (BACS) allowing controlling the following engineering systems: electric power supply, lighting, ventilation and air conditioning, water supply, heating, sewerage, security, communication, monitoring, computer and telecommunication networks. Application of BACS enables enhanced safety and comfort level, efficient resource consumption and automation of processes and operations implemented in the pavilions.

12.3 PAVILION FACADES

Hinged ventilated facades with glass elements and automatically opening windows controlled by the Building Automation Control System are used as the enclosing of the International pavilions.

The facades have been designed with a view to energy efficiency and cardinal orientation: the northern wall is glazed at 90 degrees, western/eastern walls—at 80 degrees, southern walls—at 75 degrees.

For identification purposes, each of the participant countries can install additional elements on the facades of their pavilions, for example, interactive LED display, etc.

The facades have been created to accommodate additional light signs, banners and shading devices. The brackets are designed so that exhibition stands can be easily fastened and unfastened by the Official participants whenever necessary.

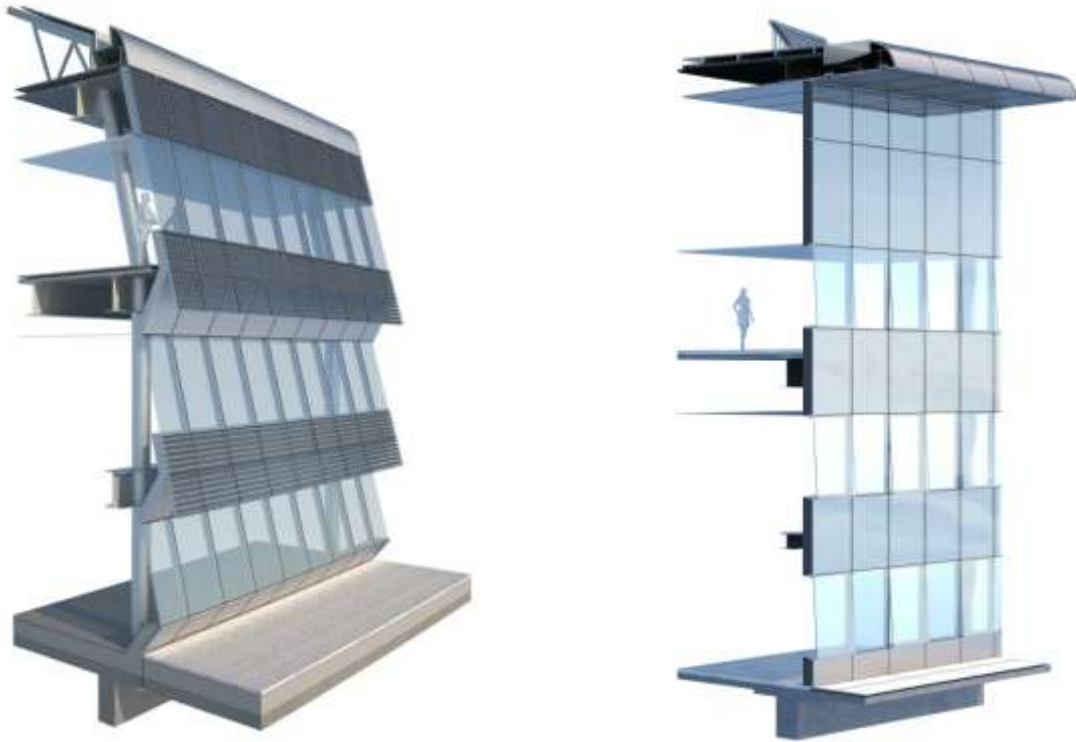


Figure: Western/eastern and northern façade elements

During the Exhibition, the inner atrium envelopes are sheathed with gypsum boards up to the lower level of the 2nd floor balcony. This solution will allow the Official Participants to finish the entrances of their pavilions according to their design concept by installing outdoor advertising and other publicity tools.

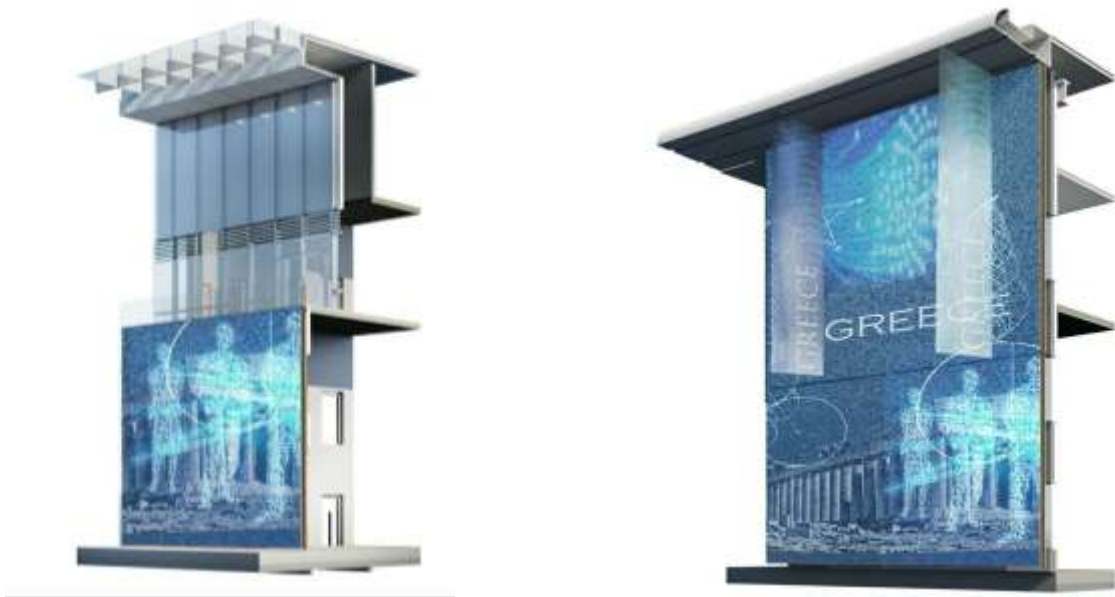


Figure: Inner atrium envelopes and elevations facing EXPO Boulevard

The flank fronts of the International pavilions overlooking the Ring Boulevard are divided into sections corresponding to the number of countries assigned to the pavilion and the area occupied by them. Several façade division options are offered.

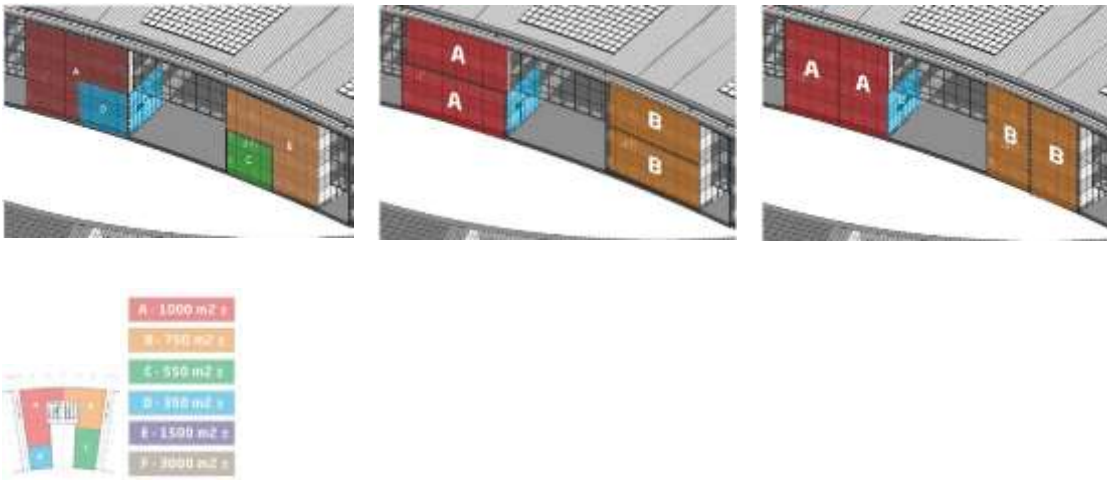


Figure: Facade division options

12.4 INTERIOR FINISHING

Exhibition facilities are provided to the Official participants in shell-and-core condition for further interior building and assembly works. Load-bearing metal structures are covered with a flame resistant coating. Finishing materials used by the Official participants should have suitable aesthetic characteristics, be environmentally friendly, safe, resistant and comply with the corresponding engineering, construction and fire safety standards and rules.

Common areas have final finishing. Hallways, stairwells, bathrooms, engineering service rooms and auxiliary premises are finished with high-quality materials and techniques in accordance with standards established for A-class exhibition buildings.

Exhibition spaces are equipped with pressurized technologies and floor hatches with the terminating equipment required to connect display stands to utility networks:

- water supply;
- sewerage;
- air supply;
- electric power grid;
- low voltage systems.

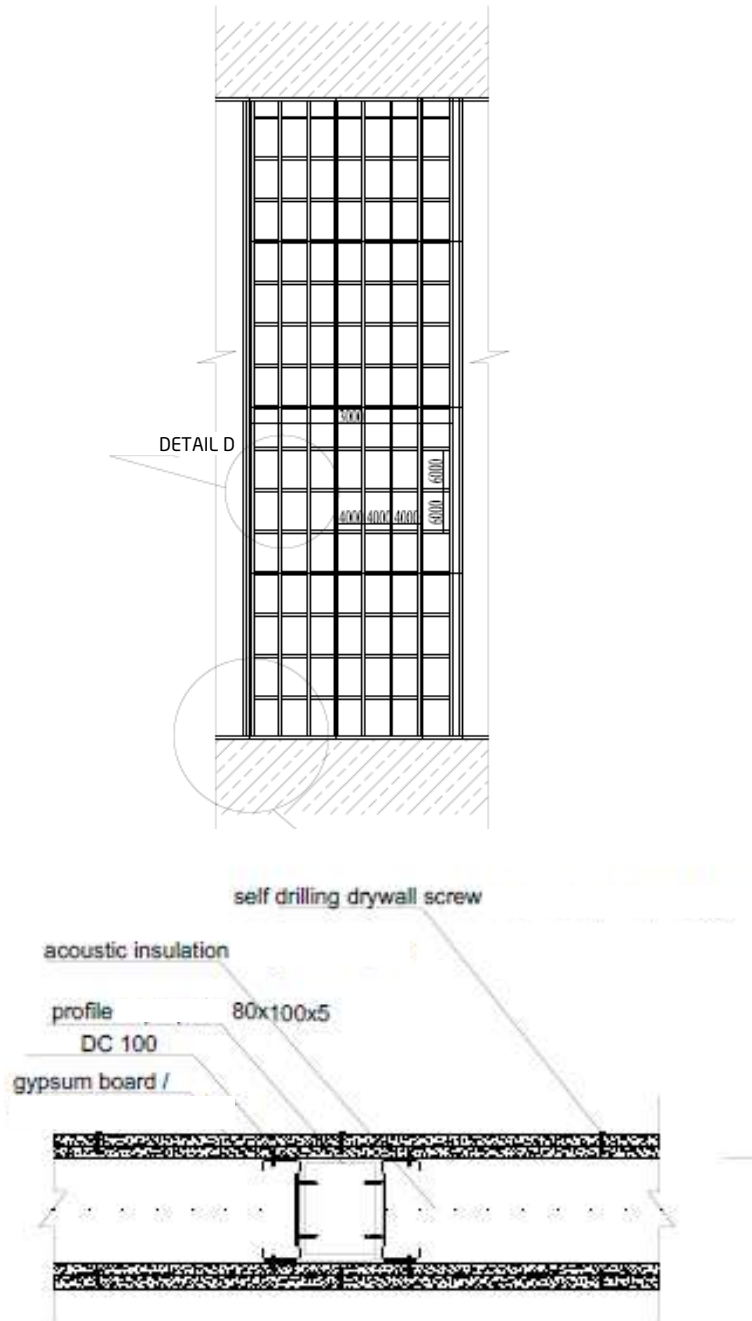
To provide adjacent outdoor areas with electric power and telecommunication services, pavilion facades are fitted with distribution cabinets and terminal equipment.

Process electric load (for hooking up display stands and exhibits) is 150 W/m².

Electric power supply of exhibition spaces has been estimated as 1 kW per 10 m² (gross consumption), only for participants' process needs.

12.5. PARTITIONS

After allocation of the exhibition area among the participating countries is completed, full height partitions will be installed inside the U-shaped pavilions to ensure acoustic quality of displays presented in each pavilion.





13. ACCREDITATION

The Official participants and their staff members must undergo accreditation to gain access to the Exhibition Site. Accreditation grants access to the Site and serves as identification for individuals participating in the Exhibition (Exhibition participants and their staff members, volunteers, concessionaries etc.).

The Organiser provides access to the online accreditation system for the Official participants in advance. The Official participants need to collect data and enter it into the system in the form of Accreditation Request. A personal accreditation badge serves as an accreditation proof.

The Exhibition Site are accessible to the holders of accreditation badges in the period from Q4/ 2016 until 15 December 2017.

Participants and their staff members are granted different types of accreditation depending on the tasks they carry out at the Exhibition. The Organiser issues the following types of accreditation:

- Permanent–accreditation badges are issued to a participant or its staff members to grant access to the Exhibition Site and Exhibition facilities
- Temporary (from one day up)–temporary badges are issued to grant temporary access (for a limited time, for at least one day) necessary to carry out official duties at the Exhibition.

In addition, a one-day pass to access the Exhibition Site is issued to the guests of the Official participants.

Participants can receive accreditation badges at the accreditation centres and stations. The main accreditation centre is located in the Organiser’s Office. To make it more convenient for the participants residing in the EXPO City, an accreditation station will be established there. The participants, who have successfully completed the accreditation procedure in advance and have received a confirmation of issue of an accreditation badge, can receive it upon arrival in the Republic of Kazakhstan, at an accreditation station located in the Astana airport.

Detailed information about the accreditation procedure for the Official participants and their staff members is provided in the Accreditation Guideline.



14. LOGISTICS

The Official participants have to choose (at their own risk and expense) forwarding companies to have their freight shipped to Kazakhstan and back. The Organiser provides a list of recommended freight forwarding and logistics companies, however, allowing the Official participant to choose any other freight forwarding company.

Main types of transport that can be used to deliver freight to the Exhibition in Astana include the following:

- Trucks
- Rail transport
- Air transport

When freight is delivered to Kazakhstan, it crosses the customs border of the Eurasian Economic Union. The Republic of Armenia, Republic of Belarus, Republic of Kazakhstan, Republic of Kyrgyzstan and the Russian Federation are the member states of the Eurasian Economic Union. The territories of member states of the Eurasian Economic Union comprise a single customs territory of the Customs Union. The freight delivered for participation in the Exhibition from the member states of the single customs territory of the Customs Union is exempt from customs clearance procedure.



Figure: Eurasian Economic Union

The Official participants should sign a customs brokerage services contract with customs brokers prior to execution of shipping documents and freight dispatching. The customs brokers provide professional assistance in drafting shipping documents, determination of the freight's code, selection of a customs procedure, declaration of goods and other services. The tariffs and list of services are determined by customs brokers.

The Official participants bringing goods of foreign origin to Kazakhstan for participation in the Exhibition may use one of the following customs procedures:

- 1) Special customs procedure ("**the SCP**")
- 2) Temporary admission
- 3) Release for home use

Each Official participant, however, may at its own discretion choose any customs procedure out of 17 established by the customs legislation.

For the purposes of the Exhibition, a Special Customs Procedure was established at the decision of the Eurasian Economic Commission (*Decision No. 329 of the Board of the Eurasian Economic Commission dated 20 May 2010*). It allows the Official participants and other parties engaged in the organisation and holding of the Exhibition to bring goods to Kazakhstan on special terms. The SCP provides for exemption from customs duties and taxes on the imported goods; in addition, there is no need to apply non-tariff or technical regulation measures. The SCP remains in force until 9 March 2018. The issues concerning goods under the SCP procedure and its termination are described in detail in Special Regulations No. 7 and the Logistics Guideline.

The logistics and freight forwarding company of the Official participant is responsible for the inbound and outbound delivery of freight to and from EXPO Warehouse located on the Exhibition Site. Total area of EXPO Warehouse is 13,146 square meters. The Official participants undergo customs procedures here, and their cargo is received, stored and transported.

EXPO Warehouse hosts the following types of premises:

- Administration building
- General purpose warehouse
- Temporary storage warehouse
- Oversized cargo warehouse
- Foodstuff storage warehouse
- Temperature controlled warehouse
- Sanitary control area
- Cargo inspection and safety area

Main services are:

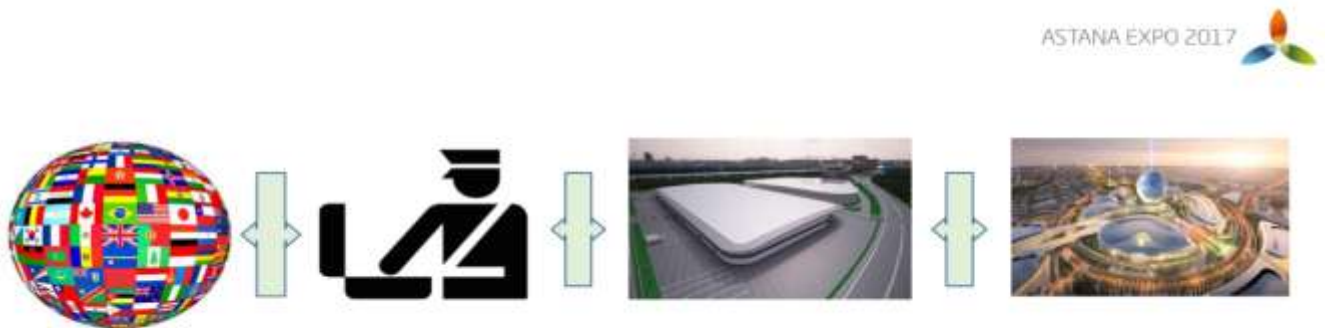
- Incoming and outgoing vehicles processing
- Customs clearance
- Phytosanitary control (quarantine)
- Cargo receipt to the temporary storage warehouse
- Cargo unpacking and repacking
- Packing material (containers) storage
- Collection of glass containers and utilization of packing material (waste management)
- Cargo marking
- Cargo relocation across the Exhibition Site

To ensure high efficiency of operations and for avoidance of mistakes during relocation of goods and/or exhibits across the Exhibition Site (the last mile), all internal deliveries are carried out by the Operator appointed by the Organiser.



Figure: EXPO Warehouse design

Each Official participant must appoint a logistics manager in charge of all operations related to cargo transportation, receipt, processing and customs clearance.



After the Exhibition and all the related activities are over, the display exhibits which have been earlier brought to Kazakhstan for temporary use will be dismantled. Exhibits will be removed from the pavilions in accordance with the established schedule upon the Exhibition Closing Ceremony.

During this period, the Special Customs Procedure must be finalized for all foreign goods placed under this customs regime.

Detailed information on issues concerning logistics and freight forwarding will be provided in Special Regulations No. 7 and the Logistics Guideline.



15. ACCOMMODATION OF THE OFFICIAL PARTICIPANTS

15.1. EXPO CITY

To accommodate the Official participants and their staff members during the construction and assembly works and during the Exhibition, EXPO City will be built.

EXPO City will be a mixture of modern energy efficient residential buildings, pedestrian promenades, landscaped public leisure and recreation areas, athletic fields and all necessary auxiliary infrastructure.

The Official participants also have an opportunity to choose an alternative accommodation option for their staff. At that, the Official participants will be offered Organiser's advisory services as to in what other Complexes of the city their staff can be accommodated.

EXPO City is designed with a view to perspective post-exhibition use. After the Exhibition is over, EXPO City buildings will be integrated into the city's residential network and will form a multifunctional Complex in Astana.

15.2. LOCATION

Residential buildings will be built on a land plot of 12 ha in the north-western part of the Exhibition Site, in the block formed by Sauran street, 28/1, and Kabanbay batyr prospect. EXPO City will consist of 6 blocks with common cycling infrastructure and a convenient sidewalk system.

The convenient location of EXPO City facilitates easy access to the Exhibition Site, Congress Complex, as well as to shopping, entertainment and service infrastructure.



Figure: EXPO City residential master plan

15.3. EXHIBITION SITE ACCESSIBILITY

EXPO City is in the walking distance from the entrances to the Exhibition Site.

Public transport stops are planned in the immediate vicinity of the EXPO City blocks. It is planned to develop a comprehensive cycling infrastructure that would include bike parking lots and rent terminals in EXPO Complex.

15.4. ACCOMMODATION IN EXPO CITY

EXPO City will consist of 42 residential buildings with the number of floors ranging from 6 to 8 and the total area of 103,746 m². On the whole, there will be 6 residential blocks with 1,374 apartments.

No.	Apartment type	Number of apartments	Apartment area
1	1 room	222	41 m ² –43 m ²
2	2 rooms	492	68 m ² –72 m ²
3	3 rooms	460	86 m ² –96 m ²
4	4 rooms	200	116 m ² –119 m ²

Table: Types of apartments in EXPO City

15.5. SERVICES FOR RESIDENTS

All leased apartments in EXPO City will be furnished and equipped with amenities to ensure a comfortable stay of the Official participants. There will be an underground parking for residents and tenants staying in EXPO City as well as a ground-level parking garage for guests.

Accommodation Centre will be open to assist the Official participants with reservations, technical services and maintenance of the residential area and apartments.

There will be retail and food service outlets on the first floor of the buildings. Among the additional infrastructure facilities, there will be bank offices, pharmacies, a first-aid station, a café with an Internet connection and others.

15.6. APARTMENT LAYOUTS

To meet the accommodation needs of the Official participants and post-exhibition goals, EXPO City will offer a wide variety of apartment layouts.

The apartments will boast a convenient architectural and spatial design and sophisticated arrangement of internal space, which can be rearranged at latter phases of project development and approval.



Figure: Standard floor layout of a residential building in EXPO City. Type 1



Figure: Standard floor layout of a residential building in EXPO City. Type 2

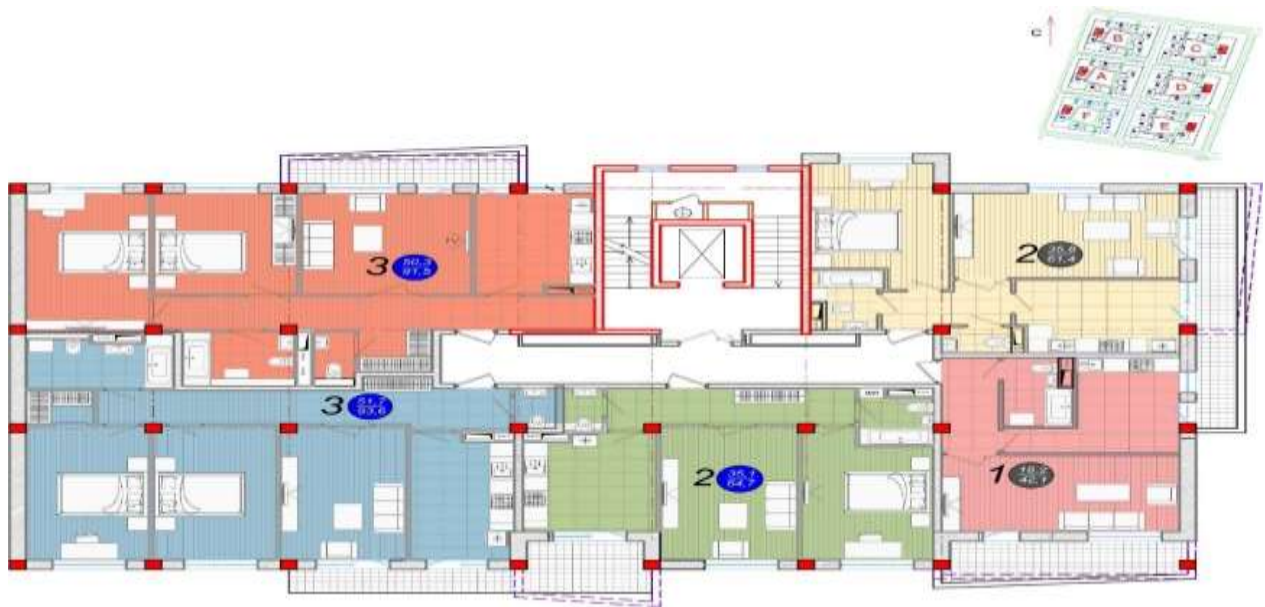


Figure: Standard floor layout of a residential building in EXPO City. Type 3

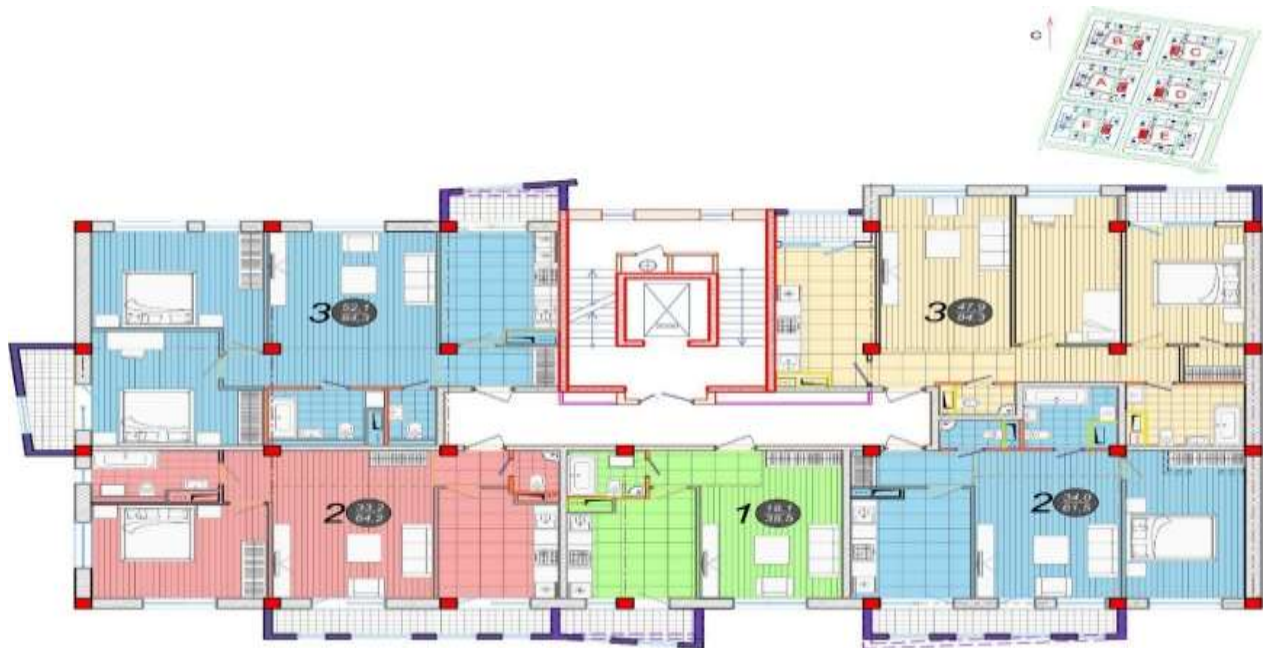


Figure: Standard floor layout of a residential building in EXPO City. Type 6

Detailed information on the apartment reservation procedure, rates and accommodation services will be provided in Special Regulations No. 6 and the Accommodation Guide. The Guide will provide an insight into the types of available accommodations in EXPO City, including the number of amenities and apartment locations.



16. SERVICES FOR THE PARTICIPANTS

FEE-BASED SERVICES

The Organiser provides utility services to the Official participants at the same rates as charged in Astana, which includes the following:

- Gas supply
- Electric power supply
- Telecommunication
- Water supply and sewerage
- Garbage collection
- Water supply for air conditioning
- Removal of waste from the pavilions
- Security services in the pavilions
- Other services at the discretion of the Organiser.

The Official participants, in their turn, undertake to maintain hygienic conditions and are responsible for technical maintenance, timely removal of garbage and other duties associated with the use of the exhibition space. Should the Official participant fail to perform its duties, the Organiser may do whatever is necessary and charge the Official participant for the expenses incurred.

In addition, the Official participants have an opportunity to rent halls and meeting room equipment for negotiations. They are also able to rent cars.

FREE SERVICES

The following services are provided by the Organiser at no charge:

- First medical aid
- Cleaning and maintenance of public areas
- Information services for visitors
- Removal of waste from public areas
- Centre for locating lost individuals
- Lost and Found office
- Symbols and information
- Security and surveillance outside the pavilions
- Fire safety
- Exterior lighting
- Bathrooms and drinking water
- Public phone services

SERVICES PROVIDED BY THIRD-PARTY ORGANISATIONS

The Organiser will display on its online portal a categorized list of recommended companies working on the local market and able to render services or carry out works for the Official participants. They include partners, sponsors, suppliers and contractors with respect to different kinds of works. The portal will provide detailed information about companies operating in the following sectors:

- Engineering and construction
- Commerce
- Transport and logistics
- Food services
- Manufactured goods and equipment
- Consumer goods
- Public health care
- Courier and mail services
- Telecommunications and the Internet

These companies will carry out works and render services to the Official participants on fair market terms. The Official participants, however, may choose not to use the services of the listed companies.

The terms of general services are set forth in Article 15 of the General Regulations and in Special Regulations No. 10. The documents will be provided to the Official participants as soon as they are finalized.



17. PARTICIPATION

The pavilions are provided to the Official participants for their activities and exploitation during the Exhibition at no charge. In turn, the Official participants have to restore the pavilions to their initial state prior to returning them to the Organiser upon the completion of the Exhibition. The Official participants bear the costs of any adaptations, fitting and use of the pavilions.

The Organiser is responsible for duly preparation for the Exhibition and resolution of any legal, financial and other issues, in order to hold the event successfully.

17.1. PARTICIPATION BUDGETING

To assist the Official participants in calculation of preliminary participation cost, the Organiser developed a special budgeting system. This system allows the Official participants to estimate their own participation. A special budgeting system is available to the Official participants on the online portal.

It includes the typical expenses, among them operating costs, cost of service, planned events, transportation/storage, accommodations/transport expenses, commercial activities and production of advertising materials.

The system also provides information about the cost of basic goods and services which may be necessary for the Official participants.

17.2. STANDARD PAVILION MODEL

For the Official participants to have all the initial information to generate a preliminary participation budget, the Organiser has developed a standard 550 square meter pavilion, whose characteristics can be used to calculate the preliminary participation cost.

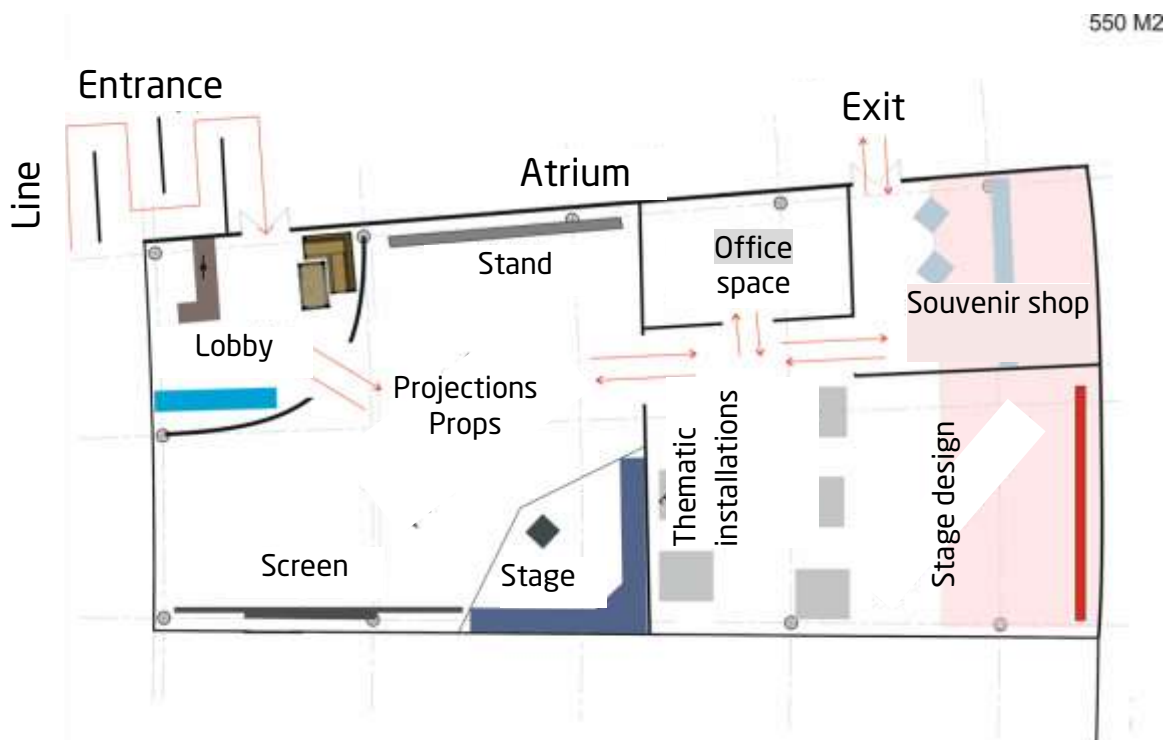
The pavilion model is made of standard elements; calculations are based on current cost of goods and services in Astana. The standard model features the key elements that the Official participants might need.

All included elements are suggestive in nature and are required for preliminary calculations. The Official participants can use the data as a sample for developing their preliminary budgets. Ultimately, each participant should develop the budget reflecting its specific needs.

The standard pavilion model consists of two levels and 5 areas:

- First level: office spaces, a lobby, multimedia installations, display installations, exit area with a souvenir shop and an information desk
- Second level: engineering service rooms and warehouse premises

1st floor area: 550 m²
Total estimated participation cost: 1,060,950 euros
Participation cost per m² of pavilion: 1,929 euros



Participation cost per m² of pavilion:

Cost	€/m ²	% of total cost
Pavilion fitting out	645	33%
Content	365	19%
Dismantling	152	8%
Furniture	78	4%
Utility services, cleaning, security ¹	249	13%
Insurance and other exhibition services	119	6%
Miscellaneous ²	322	17%
Total	1,929	100%

¹ Costs for the minimum period of 10 months.

² Auxiliary costs are estimated at 17% of total participation costs.



18. ONLINE PORTAL

The Organiser will develop a web portal for the Official participants, to provide them with the information necessary for planning and preparation for the Exhibition.

Each Official participant is granted access to its personal account upon request. The number of portal users per Official participant is scalable and unlimited. To receive a login and password, a request should be sent to the Country manager.

The web portal will be launched on 1 March 2016 at:

<https://participants.expo2017astana.com>





PARTICIPATION IN EXPO 2017 ACTIVITIES





19. FUTURE ENERGY FORUM

The Future Energy Forum—one of the core events of ASTANA EXPO 2017—will last for the entire duration of the Exhibition.

The objective of this international event is to set up a comprehensive dialogue on strategic priorities of today's energy sector, discuss prospects for the development of a new model of global energy and sustainable development.

The Forum deals with top priority goals and sophisticated technologies of Future Energy, including the strategic areas, such as reduction of greenhouse gas emissions, introduction of energy efficient technologies and universal access to sustainable energy.

Forum participants—politicians and statesmen, representatives of the government of the Republic of Kazakhstan and foreign states, international organisations, representatives of industry, business, scientific and educational institutions as well as scientific community, research institutes and non-governmental organisations will share their views and opinions on topical issues of sustainable development and access to modern energy sources, energy efficiency and energy security.

Forum's varied and extensive program will be implemented through a series of panel sessions, conferences, symposia, discussions, thematic weeks, roundtables and workshops.

19.1. FORUM PROGRAM

The Forum program consists of two main stages: pre-Exhibition and Exhibition period.

Pre-Exhibition period (Symposia, 2014-2016)

The pre-Exhibition program is introductory and educational in its nature. It implies three annual Symposia to be held prior to the Exhibition opening: in 2014, 2015 and 2016. Each of them deals with a specific sub-theme of the Exhibition:

2014—Reduction of Greenhouse Emissions. Clean and Low-Carbon Energy Technologies

2015—Energy Efficient Systems

2016—Energy for All: Universal Access to Sustainable Energy

The Symposia include presentations describing analytical, research and practical works of the participants. Subsequently, the results of the Symposia will shape the landscape of the Future Energy Forum.

Those wishing to participate in the pre-Exhibition Symposium 2016 can send participation requests to the Exhibition Organiser prior to 30 June 2016.

Exhibition period (the Future Energy Forum, 2017)

The Forum is divided into two parts:

1. Conferences and discussion—6 weeks
2. Thematic Weeks—6 weeks

1. Conferences and discussions

Conferences and discussions dealing with a specific theme are held every even week. Two milestone events—Exhibition Opening and Closing Ceremonies—feature a series of program speeches to mark the beginning and completion of the Forum.

Participants of conferences, discussions and other events within the program are shortlisted based on Symposia results.

Those wishing to take part in the Forum can send participation requests to the Organiser prior to 1 March 2017.

2. Thematic Weeks

Every odd week of the Exhibition period is considered a Thematic week and deals with a selected topic. Core events include international seminars and practical sessions. It is planned that thematic weeks will form the “backbone” of the Future Energy Forum:

- Week 1—Energy Revolution
- Week 2—Low-carbon Technologies
- Week 3—Renewable Technology-Based Engineering Solutions
- Week 4—Social Economy of the New Energy Model
- Week 5—Universal Access to Sustainable Energy
- Week 6—Energy Efficiency in Urban Setting: Planning, Construction and Transport

The messaging service available on the official ASTANA EXPO 2017 website will allow the participants and visitors to register proposals for participation in the Forum and ask questions related to the theme and sub-themes of the Forum.

19.2 PARTICIPATION IN THE FORUM

Symposia held in the pre-Exhibition period, where participants are engaged in analytical, research and practical work as well as information exchange, will culminate in the Future Energy Forum.

All the pre-Exhibition Symposia topics will be included in the Future Energy Forum program. Those wishing to take part in the Symposia and the Future Energy Forum can send their proposals and participation requests to the Organiser in line with the Thematic Weeks.

19.3. MANIFESTO OF VALUES AND PRINCIPLES OF ASTANA EXPO 2017

The Organiser develops a Manifesto of Values and Principles based on the outcomes of debates and discussions that will be held as part of the Forum in the next several years.

The Manifesto of Values and Principles of Astana EXPO 2017 is the quintessence of discussions and debates; it manifests the common stance of governments, organisations, business circles, ecologists and consumers—participants of the Forum. The significance of the document allows it to be treated as a developmental model for the world community. It will become an intellectual heritage of the Exhibition and contain programs and recommendations designed to resolve global problems in the domain of energy.

The Manifesto of Values and Principles of Astana EXPO 2017 encourages governments, corporations, scientific and ecological organisations, businesses and all interested parties to unite their efforts. They all must share global responsibility in resolution of strategic tasks, such as energy efficiency, reduction of greenhouse gas emissions, production of clean energy, investment in developing countries in order to assure a more sustainable future.

The Manifesto of Values and Principles of Astana EXPO 2017, supported by the international community, plays an important role in the global promotion of cutting-edge social and technological innovations able to resolve energy challenges.



20. ENERGY BEST PRACTICES AREA (EBPA)

The concept of the Energy Best Practices Area pavilion (hereinafter—**EBPa**), where the successful projects, technologies and methods in the energy sector are demonstrated, intertwines with the concept of the Future Energy Forum.

This pavilion serves as a symbolic centre of the Exhibition, where the top achievements in different areas of sustainable energy are displayed: production, storage and use of electric power, climate change management and energy solutions for the developing countries.

The right to display in EBPa does not only allow the participants to show their achievements in the energy sector, but also to exchange opinions and experience in promoting the displayed technologies, strategies and projects.

The projects proposed for display at EBPa should deal with one of EBPa themes and will be selected by the International Selection Committee.

20.1. THEMATIC DISPLAY PLAN

Displays in EBPa are tight to 4 thematic categories:

- Economy sector (heavy industry, agriculture, service and support);
- New technologies and innovations;
- Politics (local, regional and national);
- International cooperation projects

Each of these thematic categories can be further developed within the scope of the following 5 sub-categories:

1. *Renewable and alternative energy*
2. *Energy efficiency and traditional energy*
3. *Energy storage*
4. *Energy distribution*
5. *Use of natural energy resources*

20.2. PROJECT SHORTLISTING PROCEDURE

The Organiser will establish an International Selection Committee (“**the ISC**”) to shortlist EBP_a projects. The ISC Secretariat carries the duties of an organising committee in charge of ISC operation and shortlisting procedure that includes acceptance of projects from the prospective participants, support and shortlisting. Activities carried out by the ISC and the Secretariat are governed by the relevant Provisions.

To ensure comprehensive, complete and objective examination of the submitted projects as well as to carry out project assessment and pre-selection, the ISC forms working groups including experts and specialists from a particular industry.

The following organisations and individuals are invited to participate in EBP_a: state governments, central and local governmental bodies and their alliances; intergovernmental and international organisations; public organisations or associations (NGOs, associations, public and private funds); representatives of business community; undergraduate level educational institutions and research and scientific organisations; public-private partnerships; individuals-proprietors.

20.3. PROJECT SHORTLISTING CRITERIA

Experts (ISC members, working group members) assess the compliance of the submitted projects with a set of criteria.

Projects corresponding to thematic categories of EBP_a are presented in EBP_a. For categorization purposes, the “breakthrough projects” imply projects/programs/technologies with good potential that are either being conceptualized or developed (at the time of assessment) and are forecasted to be implemented shortly.

Projects demonstrating the best practices imply operating (implemented) projects/programs/technologies that engage advanced solutions in reduction of CO₂ emissions, energy efficiency, conservation and access to sustainable energy.

20.4. PARTICIPATION PROCEDURE

Request acceptance

Participation requests are accepted during nine (9) months, beginning from the start date announced by the Organiser. Requests for consideration of projects can be submitted in electronic form on the Organiser’s official website or hard copies can be mailed to the Organiser’s mailing address.

ISC Secretariat collects the submitted requests. It also audits the requests to the extent of their compliance with the general theme of EBP_a. Accepted requests are forwarded to the members of the working group and ISC.

Request acceptance will be officially closed upon the expiry of 9 months after the start date. This deadline may be extended based on the ISC's decision coordinated with the Organiser.

Pre-selection

Within 30 days after the request acceptance is closed, ISC generates a decision regarding the EBP_a pre-selected projects. Having reviewed the requests submitted for participation in EBP_a display, ISC members approve the final list of pre-selected projects.

The Organiser forwards a notice of Pre-selection for participation in EBP_a to the authors of the pre-selected projects as well as to the Official participants no later than 10 calendar days after the approval.

Final shortlisting

Having considered the list of pre-selected requests for participation in EBP_a, ISC members determine and approve the shortlist of projects within 20 calendar days.

The shortlisted projects are presented to the Organiser and published on the Organiser's website. The Organiser also forwards formal invitations to the authors of the shortlisted projects-participants of the display in EBP_a.

Detailed information about EBP_a is provided in the Criteria and Shortlisting Procedure for the Energy Best Practice Area (EBP_a), which will be made available to the Participants after coordination with the ISC.



21. ENTERTAINMENT EVENT PROGRAM

21.1. MAIN AREAS

The year of 2017 will see Astana become the epicentre of Kazakhstan's cultural life and one of the largest global venues that will be home to a unique and varied program that reflects national and world cultural trends. It is Astana EXPO 2017 that will be the initiator and driving force.

The Exhibition Cultural and Entertainment Program has been compiled with account for the Future Energy theme and five main goals that are fundamental to every event:

1. Performances of the best of the cultural community, art groups, and artists of different styles and genres. The Organiser is planning to recruit Class A artists, local and international directors, painters, musicians, choreographers etc., and organise meetings between famous artists from the creative community. The program includes a vast array of premiers for Kazakhstan and the whole world.

2. Development of a Cultural Program that is of interest to the wider audience. The program has been developed with account for typical features and interests of all visitor categories: different ages, and the local, national and international nature of the audience.

3. Entertainment Events should be of an informative and educational nature. Given the versatility of modern society, social

factors put the onus squarely on the entertainment genre, which should primarily carry out a cultural and educational role.

4. A Cultural Program that combines traditions and innovations. The cornerstone of the program will be investigation of links between new technologies and traditions. The main potential of this synergy is a key theme in the creation of the program. In addition, special attention will be paid to events linked to the Exhibition's main theme and sub-themes: *Reducing CO2 Emissions, Living Energy Efficiency and Energy for All.*

5. Promotion of creative cooperation between the Kazakh and international cultural community. One of the most important aspects of the program will be the unconditional development of cooperation (exchange of ideas, and development and implementation of joint projects) between Kazakh and international members of the cultural community.

Over the course of 93 days, Exhibition visitors will be entertained by daily parades, evening show and art show featuring the best international artists, concerts of popular Kazakh and international artists, traditional and academic art festivals, contemporary culture festivals, cycles of educational programs and interactive entertainment and sports activities.

Astana EXPO 2017 Cultural and Entertainment Program can be described as a mobile cultural institute in operation at the Exhibition. Modern cultural institutes comprise now two main characteristics: education and entertainment. In order to broaden the audience and raise overall engagement, cultural institutes offer a variety of interactive content that can capture the interests of different target groups.

Every visitor to Astana EXPO 2017 will see a concert or a play, a contemporary art exhibition and a parade; moreover, they will watch a series of documentary films, attend a lecture or visit the best world museums by way of an online tour, spend time in a studio workshop with their children, relax in a comfortable cafe or visit a bookshop.

Astana EXPO 2017 cultural and entertainment program will take place in five Recognised Exhibition venues, whose exposition technical capabilities will reflect and display various topics, genres and art forms.

21.1.1. VENUES

The Auditorium is an open-air concert venue with a capacity of 15,000 guests.

The E-hall is a covered theatre venue that can hold up to 1,500 people.

The Arts Centre is a multi-purpose covered exhibition space and an entertainment and educational centre for children that can accommodate up to 1,000 guests per hour.

The National Day Stage (EXPO Plaza) is an open-air mobile stage with a capacity of up to 1,000 people, intended for the official National Day ceremonies of the participating countries.

The Congress Centre is a hall with a capacity of up to 3,000 people, intended for official events, thematic forums and meetings.

The Exhibition Site is landscaped communal areas, etc.

Auditorium

Exhibition Opening and Closing Ceremonies

Daily Evening Show

Concerts of the popular Kazakh and international artists

Constitution Day

City Day

Special events featuring the Official Participants

The Auditorium is designed to host large-scale concerts, theatrical and cultural events. Guest capacity is up to 15,000 persons, of which 2,000 can be seated. The Auditorium is fully connected to the infrastructure of the Arts Centre and other adjacent communal areas of the Exhibition Site. The Arts Centre's roof has been designed and constructed at an angle which greatly increases the audience. The space itself is a portable stage that allows for set installation and technical equipment mounting on a mobile basis.



E-hall

Classical and traditional music concerts

Modern choreography

Experimental theatre

Cinema program for the wider audience

Special events featuring the Official Participants

The E-hall is a concert venue. Constructed with the latest technology, the building has multi-purpose capabilities and can be used for various official activities, such as ceremonies, receptions and banquets. With an area of approximately 3,300 sq.m., the Hall can accommodate 1,500 spectators (1,000 in the stalls and 500 on the balcony).



Arts Centre

Modern art exhibitions
Educational courses for children and adults
Studio (creative workshop)
Lectures, film screenings
Books&Coffee
Recreation Area
Special events featuring the Official Participants

The Arts Centre will be an epicentre of modern culture showcasing events for a diverse audience. The multi-purpose exhibition halls of the Arts Centre have a flexible planning layout. A mobile, modular partition system has been designed in order to separate collections and halls. It allows for flexible installation of exhibits and their swift rearrangement, as well as the organisation of lectures and studio workshops. The design incorporates Recognised lighting and climate-control necessary for the buildings of this type. The Arts Centre's accessible roof with terraces and small architectural amenities creates a central communal area in close proximity to the Sphere.



National Day Stage (EXPO Plaza)

Official National Day Opening Ceremonies
Flag-raising Ceremony
Concert programs of the Official Participants
Traditional music concerts
Concerts of young artists and DJ sets
Special events featuring the Official Participants

The National Day Stage is designed to host the Official Participants' National Days. The seating capacity is 200-300 persons; the space near the stage can accommodate the audience of up to 1,000 persons. The stage design allows technical equipment to be installed on a mobile basis. Despite its mobility, this portable stage will meet the international acoustic standards.



Congress Centre



Future Energy Forum
Official Events with participation of the heads of states
Press conferences
Thematic forums, seminars
Educational events
Special events featuring the Official Participants

The Congress Centre is a covered complex outside the Exhibition Site. The building has been designed to hold large-scale conferences, forums, seminars, concerts and press conferences. The hall has a capacity of 3,000 persons and is fully equipped with modern devices necessary for holding conferences at a state level. During the Exhibition, the Congress Centre will be the main venue of the Future Energy Forum to host the official events.

21.1.2. EVENT TYPES

Large-scale events:

Opening Ceremony (with international broadcast)
Exhibition Closing Ceremony
Daily Parade and Evening Show
Art Show with participation of Class A international artists.
City Day
Constitution Day

Pop music, rock music:

Concerts of popular Kazakh and international artists

National art:

World Music Festival
Concerts featuring national music of the Official Participants
National Arts and Crafts Festival
Programs showcasing dance art of Kazakhstan and the Official Participants
Kazakh cinema program (archive and contemporary)
Cinema programs developed in conjunction with the Official Participants

Academic Art:

Concerts of famous Kazakh and international artists
Concerts of Kazakh and international academic groups

Modern Art:

Modern Art Exhibitions: sculpture, painting, video, installations and photography
Modern Choreography Theatre Performances
Experimental Productions
Public Art: thematic sculptures created by the leading Kazakh and international artists on the Exhibition Site
Interactive games and multimedia installations

Educational Events:

Thematic forums, TEDx sessions, video conferences on Exhibition themes with world stars
 Educational Art Events for children
 Online tours of the leading world museums
 Documentary, popular science cinema programs dedicated to the Exhibition theme

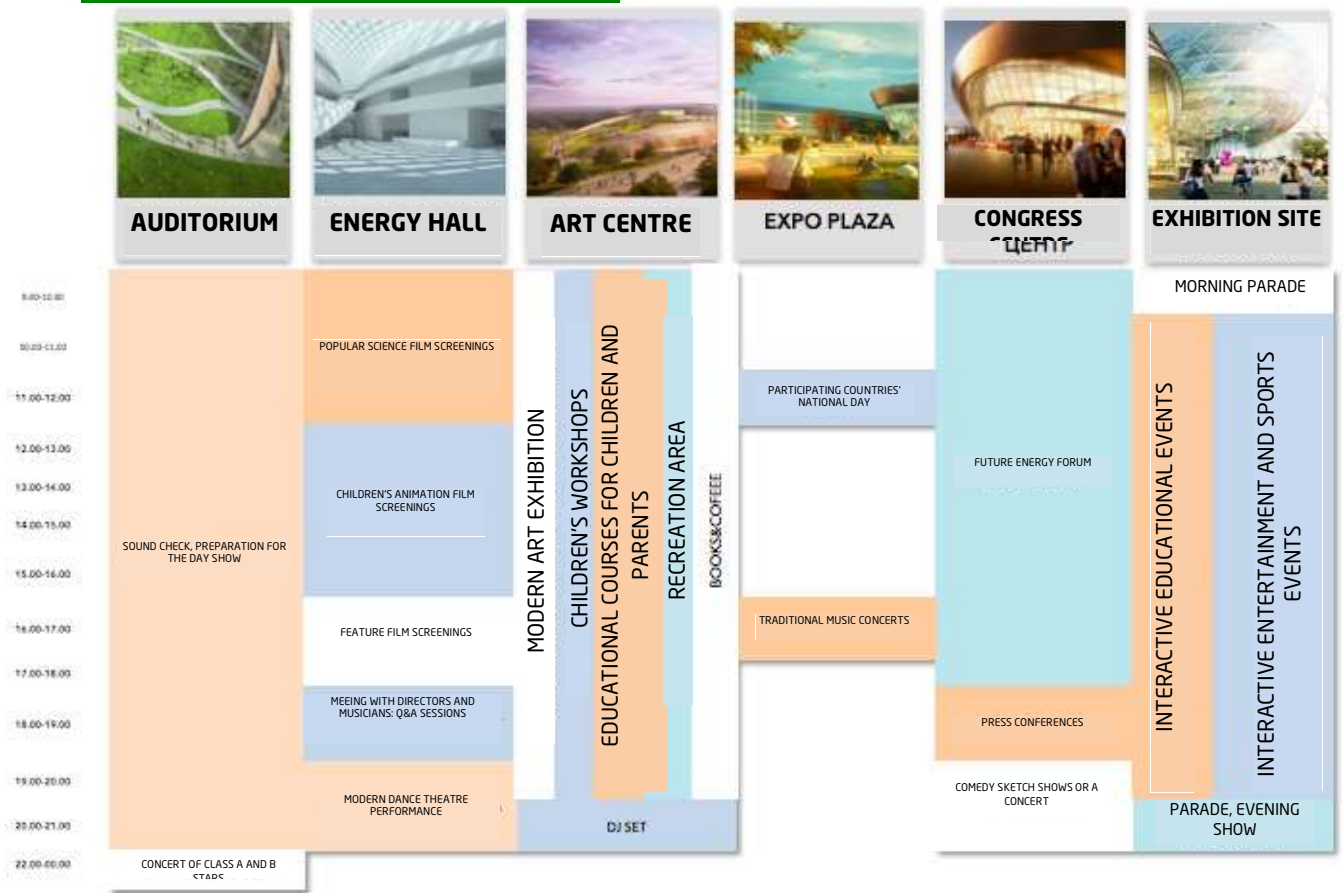
Educational, interactive, thematic events on the Exhibition Site

Entertainment and Sports Events:

Gastronomic Festivals
 Street Performances
 Interactive Sport Tournaments
 Children’s international street venue in the Auditorium

21.1.3. ONE-DAY TIMETABLE

CULTURAL AND ENTERTAINMENT EVENTS PLAN ONE DAY TIMETABLE



21.2. PARTICIPATION IN THE CULTURAL AND ENTERTAINMENT PROGRAM

Official Participants can take active part in cultural and entertainment program of the Exhibition and develop joint projects in any event category.



21.2.1. NATIONAL DAY RESERVATION PROCEDURE

As a host party, Astana EXPO 2017 is fully engaged in organising National Days of the Official Participants. It provides a venue for all event types on the day of the festival. On 1 January 2016 the Official Participants may start reserving their National Days dates by sending a request to their Country Manager or to the following address: nationalday@expo2017astana.com. Within 5 working days, the Organiser will confirm the selected dates or offer alternative dates, in case the selected ones have been already reserved.

The Official Participants must provide the Organiser with the following information:

1. Three choices of preferred dates for their National Day
2. A preliminary script of the National Day
3. Estimated number of event participants on the part of the Official Participant
4. Delegation membership for the Protocol Service (see 21.2.3.)

It is recommended that the following ceremonies be included in the National Day Program: opening remarks of the Official Participant holding the National Day, national flag rising and National Anthem performance, a speech on behalf of the Official Participant and the Republic of Kazakhstan, photo shoots, guest book entries and a variety of cultural performances.

The Official Participants will be able to round off their National Day by organising shows and events, in order to raise the profile of their country and create a unique festival atmosphere. For the purposes of the National Day cultural program, the Official Participants may use the National Day Stage (EXPO Plaza), as well as any of the cultural and entertainment venues on the Exhibition Site, including the Congress Centre.

2.1.2.2. PLANNING CULTURAL AND SPECIAL EVENTS

The Official Participants may also unite their pavilions in order to organise a group event, hold a regional day or promote a specific theme that is not related to the National Day. To plan their cultural program, the Official Participants must submit a request to the Organiser by 1 February 2017 at the following address: 3000events@expo2017astana.com. The request should contain a brief artistic and technical description of the proposed project:

1. Synopsis
2. Event format - concert, exhibition (painting, sculpture, video, street installation, photo), street performance, educational course, cinema program etc.
3. Name of the team, performer, artist and/or speaker
4. Number of topics, films, videos, photographs
5. Planned running time of the event
6. Technical specifications for event staging

2.1.2.3. PROTOCOL SERVICE

The Protocol Service regulates the procedural staging of the official events on the Exhibition Site. Main goals of the Protocol Service include the following:

- Coordination of the overall ceremonial work on the Exhibition Site;
- Holding National Days;
- Hosting official and working visits.

Delegation categories:

- **Level 1:** Delegations led by heads of state and governments, as well as international organisations;
- **Level 2:** Delegations led by vice presidents, members of the Royal Family, parliamentary presidents, former heads of state and deputy prime ministers;
- **Level 3:** Delegations led by ministers and parliamentary deputies.

A subdivision of the Protocol Service will be established by the Organiser, in order to provide special support to famous members of business, sport and arts communities.

Detailed information on the Protocol and National Days will be presented in the Protocol Guide.

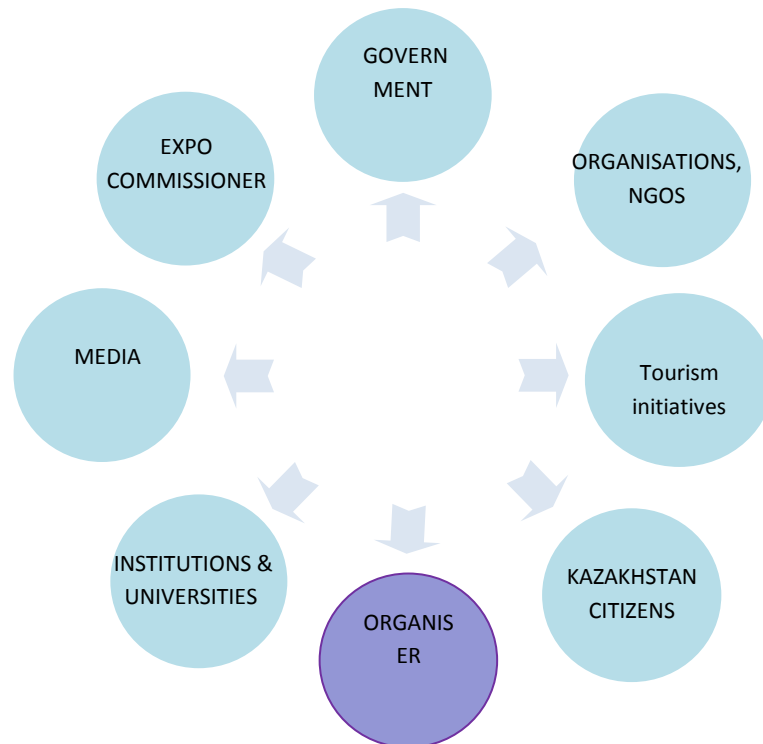


22. PROMOTION

22.1. COMMUNICATION PLAN

The main objectives of the communication plan are: to attract five million visits to Astana EXPO 2017; to promote the Future Energy theme; and to create an EXPO legacy. The basis of the communication and promotional plan is raising brand awareness of Astana EXPO 2017, along with its vision, main goals and values.

Astana EXPO 2017 is an event of national importance. In view of this, participation and active cooperation of Kazakhstan citizens are the cornerstones of its success. The Organiser expects that Kazakh citizens will make up 85% of the Exhibition visitors; thus, it is vital that local people be inspired to take part in Astana EXPO 2017. Active cooperation across governmental bodies, institutions and a variety of other organisations that will help to expand the reach of Exhibition communications is also of great significance.



TARGET GROUPS

The communication and promotion plan includes the development of strategies for attracting a maximum number of participants. The aim is to engage all target audiences, both nationally and internationally, in order to ensure the success of the Exhibition. Astana EXPO 2017 will meet a wide range of demands; the needs of different social strata and demographic segments will be carefully considered.

The demographic segments have been broken down into the following target audience groups: the involved audience (B2B: business to business, business audience) and the wider audience (B2C: business to consumer, mass audience), depending on their role and involvement in the Exhibition.

The involved audience is a category that is directly linked to Astana EXPO 2017 in terms of Exhibition organisation, construction, administration, partnership or promotion. The involved audience includes partners (also NGOs and international organisations), students, volunteers, sponsors, opinion leaders, participants and the media. The Organiser will communicate with them through public relations and marketing.

The wider audience comprises visitors who will attend the Exhibition both from within Kazakhstan and across the globe. The wider audience will include different population groups, i.e. school and university, groups, pensioners and tourists. The communication tools linked to the wider audience are advertising in the media and mass events.

The chart below delineates the sub-groups of the target audience:



EXPO 2017 INFORMATION CAMPAIGN PERIODS

To ensure uninterrupted communication in the course of preparation and in the post-Exhibition phase, the communication plan has been divided into three parts: pre-Expo, Expo and post-Expo period. Each of them has its own goals, tasks and objectives.



The periods partially overlap each other, which ensures uninterrupted communication at both the national and international level.

In phases 2-3 (2014-2015) outreach was conducted to the wider audience at both the national and international level. At the national level, an advertising campaign was run to raise awareness among the local population about Astana EXPO 2017: videos about the Exhibition were broadcast on Kazakh television and billboards were placed in the cities and regions of Kazakhstan. At the international level, advertising videos were posted in a number of international media outlets, including Euronews and BBC World.

In order to promote the brand of Astana EXPO 2017 and Future Energy theme, the Organiser is taking active part in the international events such as the World Future Energy Summit in Abu Dhabi, the World Economic Forum in Davos, etc.

Over the course of 2016-2017, active work will be carried out for the attraction of visitors and participants, in particular:

- A national advertising campaign to recruit volunteers. In 2016, Astana EXPO 2017 will be actively recruiting volunteers and engaging them in operations related to the Exhibition;
- A national advertising ticket-selling campaign will be launched on the ticket release date, together with an advertising campaign for the promotion of Exhibition ticket sales.
- An international digital campaign to attract foreign tourists to Astana. In 2014-2015, work was carried on to increase awareness of Astana at the international level. In 2016, informing and inviting tourists to the Exhibition will be the main foreign tourist attraction campaign.

COMMUNICATION TOOLS OF ASTANA EXPO 2017

All events in the Pre-Expo and Expo periods will be promoted via a comprehensive spectrum of marketing and advertising. To promote the Exhibition, integrated marketing communications will be used, which requires close interconnection between all promotional operations.

All promotional tools will be united in one form or another, to create a unified and well-thought-out communication flow. Combining all of these promotional elements is necessary to ensure that all target groups are covered.

Communication and promotional tools of Astana EXPO 2017 will include the following:



22.2. PROMOTIONAL SUPPORT

It is planned that communication (information) flow will be arranged through participants, including countries, international organisations and sponsors. The Official Participants will be involved in the promotional communications of Astana EXPO 2017 to ensure maximum coverage. Communications involving the participating organisations will focus on the Future Energy theme.

To ensure active participation of the invited countries and companies, the Organiser plans to take the following steps:

- Recruiting multilingual staff from different cultural backSite to the Communications Department;
- Ongoing communication with foreign journalists and arranging multiple media visits to Astana;
- Recruiting international media groups to help pitch Astana EXPO 2017 to the international media;
- Creating EXPO 2017 website in multiple languages;
- Converting the website to an international web portal;
- Attending major international events dealing with energy and environment;
- Holding advertising campaigns at the international level, so as to attract people and increase ticket sales.

Additionally, the Organiser will provide the Official Participants with full promotion support in the lead up and holding of the Exhibition.

During the lead up to Astana EXPO 2017, the Organiser plans to provide the following promotion support:

- An advertising campaign to promote the Official Participants of the Exhibition. For example, in 2017 the international pavilions of the participating countries will be promoted along with the National Pavilion on billboards, in TV adverts, etc.
- PR support of the events held by the Official Participants in their countries in the run-up to Astana EXPO 2017. Due to close cooperation between international and local media, the Organiser will be able to raise awareness about the events which are planned by the Official Participants.
- Promotion of the Official Participants via Astana EXPO 2017 international portal and mobile application (each Official Participant will have a personal account on the portal). Using their personal accounts, the Official Participants will be able to spread information about their events (for example, the National Day) among the potential visitors by using the data base. Potential visitors will get information updates by SMS/email/ mobile app. Moreover, this information will be sent out to partners, accredited media, volunteers, contractual organisers and tour operators, etc.
- Promotion of the Official Participants on Astana EXPO 2017 Social Networks. Information about all occasions and events held by the participating countries will be posted on Astana EXPO 2017's social media accounts including Facebook, Instagram, Twitter, V Kontakte, etc.

Detailed information on the promotion of the Official Participants will be provided in the Promotion Guide.



23. USING ASTANA EXPO 2017 SYMBOLS

23.1. ASTANA EXPO 2017 SYMBOLS

Astana EXPO 2017 symbols include the title, thematic title, logos, mascots, songs and other Astana EXPO 2017 materials.

Verbal symbols

1. Astana EXPO 2017, ЭКСПО-2017 Астана
2. Future Energy, Энергия Будущего

Graphical symbols

1. Logo of Astana EXPO 2017



2. Astana EXPO 2017 mascots



The Organiser reserves the right to update the list of Astana EXPO 2017 symbols by addition, substitution and/or deletion. In case of such changes, the Organiser notifies the Official Participant of these changes on the official website and the online portal for Participants.

23.2. USING SYMBOLS

The Organiser considers applications for the use of Astana EXPO 2017 symbols and takes action against violations of the established rules whenever necessary.

23.2.1. COMMERCIAL USE OF SYMBOLS

The Official Participant willing to use Astana EXPO 2017 symbols for commercial purposes should contact the Organiser in writing with a request for commercial use. The request should contain the purpose, timing and the use of the exhibition symbols, as well as their visual images.

Within 30 working days from the date of the request for commercial use of Astana EXPO 2017 symbols, the Organiser notifies the applicant of its decision in writing. In case of a positive decision by the Organiser, further procedures for conclusion and registration of the License Agreement are carried out.

23.2.2. NON-COMMERCIAL USE OF SYMBOLS

The Official Participant willing to use Astana EXPO 2017 symbols for commercial purposes on their official websites, posters, business cards, leaflets for free distribution, presentations, speeches and otherwise should also obtain an official permission from the Organiser. The right to non-commercial use of the exhibition symbols will be provided to the Official Participants at no charge.

The Official Participant should send a request to the Organiser for non-commercial use of Astana EXPO 2017 symbols and agree on their proper use by e-mail. Within 10 working days from the date of the request, the Organiser notifies the applicant of its decision in writing. The request form for non-commercial use of EXPO symbols is available on the online portal for the Official Participants.

The Organiser reserves the right to take all necessary measures to prevent unauthorized use of the Astana EXPO 2017 symbols (including those that will be used as Astana EXPO 2017 symbols in the future).

Unauthorized use of Astana EXPO 2017 symbols includes the following:

- violation of the conventions relating to the international exhibitions and the BIE, laws and regulations of the Republic of Kazakhstan;
- promoting certain political, religious or ideological groups;
- obtaining illegal profits;
- self-promotion of certain individuals or commercial organisations;
- threats to the reputation of Astana EXPO 2017 or creating obstacles to understanding the Exhibition;
- violation of rules and regulations on the use of the Exhibition symbols;
- specific cases when the Organiser has determined that the use of Astana EXPO 2017 symbols is unacceptable.

Detailed information will be provided in special Guide on the use of Astana EXPO 2017 symbols for the Official Participants.



24. VOLUNTEERS

24.1. VOLUNTEERING POLICY

The Organiser's policy involves volunteering activities and community engagement in the preparation and holding of the Exhibition.

The aim of the volunteering activities is to ensure that participants and visitors enjoy their time at the Exhibition.

For the duration of the Exhibition, it is planned to involve 3,000 volunteers in total, with 500 volunteers at the Exhibition Site at any one time. The Organiser has developed special selection criteria.

Volunteering activity areas will include support for the protocol service, assistance in conducting mass, cultural and marketing activities to help ensure operational services and visitor information.

The Organiser creates all the conditions to ensure comfort and motivation of the volunteers, including the following:

- Housing for non-resident volunteers in Astana, as well as meals and transportation for all volunteers
- Training for volunteers in Kazakhstan, including remotely
- Gatherings and special events for volunteers
- Developing design and providing special brand outfits for the volunteers
- Providing the volunteers with free and easy access to pavilions and cultural events held in the Exhibition area

Volunteer activities at the Exhibition will be timed as follows:

- 1) day shift - 09:00-16:00 hours (with a 1-hour lunch break);
- 2) evening shift - 16:00-22:00 hours (with a 1-hour lunch break).

24.2. Non-resident Volunteers

The volunteers might also be foreign nationals who are subject to common requirements, as well as the conditions and forms of motivation. The selection process for foreign Volunteers will be conducted online.

24.3 Volunteers of the Official Participants

Participants may involve Kazakhstani volunteers and the citizens of their own country to service their pavilions and booths. The volunteers of the Official Participants must be accredited and possess the necessary information about the Exhibition, as well as have unique outfits that are distinguishable from the outfits of the Organiser's volunteers.

CONCLUSION

We hope that the Participation Guidel have demonstrated to you the desire of our country to hold Astana EXPO 2017 at the highest level and make it a pleasant experience for visitors. We want the Exhibition to leave great legacy to future generations.

We hope that you have found all the necessary information in our document, in order to plan and arrange your participation in the Exhibition. If you have any further questions, everyone in the Organiser's team will be happy to help you.

We welcome you to the International Participants Meeting and are looking forward to continue our cooperation, in order to create a memorable International Recognised Exhibition EXPO 2017 Astana.

CONTACT INFORMATION:

Official website: <https://expo2017astana.com>

Online portal: <https://participants.expo2017astana.com>

E-mail: participants@expo2017astana.com

Phone: +7 7172 919443

Address: 010000 Republic of Kazakhstan, Astana, 8, Kunayeva Street, Block B.





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ANNEXES





GENERAL REGULATIONS Astana EXPO 2017

SECTION I.

GENERAL PROVISIONS

ARTICLE 1.

TITLE, SUBJECT AND CATEGORY OF THE EXHIBITION

On 22 November 2012, by a vote of the members of the Bureau of International Exhibitions ("**the BIE**"), Astana, Kazakhstan, was chosen as the official venue for the International Recognised Exhibition EXPO 2017.

Thus, the International Recognised Exhibition will be held in Astana, Republic of Kazakhstan ("**the Host State**").

The title of the Exhibition is the "International Recognised Exhibition EXPO 2017 Astana", abbreviated as Astana EXPO 2017 ("**the Exhibition**" or "**EXPO 2017**").

The theme of the Exhibition is **Future Energy**. It deals with global energy challenges and problems that directly affect the basic aspects of life on the planet. Among them are global warming and climate change, development, energy security and scarcity of natural resources, access to water resources, protection of biodiversity and promotion of universal equality.

The purpose of the theme is to contribute to the discussion of possible solutions to the energy of the future by considering new methods of its development, use and management, as well as offer the most appropriate and reliable ways to achieve more sustainable development.

In this regard, one of the most important challenges of the energy sector of the future must be (i) identification of models of sustainable energy supply; (ii) increase of energy efficiency; (iii) increase of the share of clean and renewable energy; (iv) establishment of the necessary energy distribution networks and providing their services to meet demand; and (v) ensuring access to sustainable energy.

ARTICLE 2. EXPO SITE

The Exhibition will be held in Astana. The total area of the Exhibition is 174 hectares, of which 25 hectares is intended for the pavilions, and the remaining area comprising 149 hectares - for other Exhibition facilities.

The Exhibition Complex is located in the eastern part of the city of Astana on the intersection of Kabanbay-batyr Prospect in the west, Hussein bin Talal Avenue in the north, Orynbor Street to the east and Turar Ryskulov Street to the south.

ARTICLE 3. DURATION OF THE EXHIBITION

The start date of the Exposition is 10 June 2017, and the completion date is 10 September 2017

Should the special visitor categories (in particular, journalists) be allowed to the Exhibition one or more days before the scheduled official opening date, these days should be agreed with the Steering Committee of the Commissioners Panel.

SECTION II.

STATE AUTHORITIES OF THE HOST STATE

ARTICLE 4. STATE COMMISSION

By Decree of the President of the Republic of Kazakhstan dated 26 November 2012, a State Commission was established for the preparation and holding of the Exhibition. The Chairman of the State Commission is the Prime Minister of the Republic of Kazakhstan. The main task of the State Commission is to develop proposals for organisation and holding of the Exhibition.

ARTICLE 5. EXHIBITION COMMISSIONER

An Exhibition Commissioner was appointed by the Decree of the President of the Republic of Kazakhstan.

The Exhibition Commissioner represents the Government of the Republic of Kazakhstan in all matters concerning organisation and holding of the Exhibition. He is responsible for the fulfilment of commitments undertaken in relation to the BIE and Exhibition participants ("**the Participants**").

The Commissioner is responsible for execution of the General and Special Regulations.

The Commissioner has the disciplinary powers within the scope of the Exhibition; in view of this, he is authorized to suspend or terminate any activity at any time and to withdraw any product of any origin, which does not correspond to the proper status of

the Exhibition and creates the risk of its failure. If the Organiser (as defined in Article 8 of this General Regulations) or the National Section Commissioner challenge the decision of the Exhibition Commissioner, then the statutory provisions set forth in Article 10 of the General Regulations shall apply. In this case, the effect of the decision is subject to suspension, except for cases when it concerns security.

The Exhibition Commissioner may on his own responsibility delegate his powers to subordinates.

He may not perform the functions or act on behalf of the Organiser, except when these functions are non-commercial according to the law and in fact, and do not pursue selfish goals.

ARTICLE 6. RELATIONSHIP BETWEEN THE EXHIBITION COMMISSIONER AND BIE

The Exhibition Commissioner must inform the BIE about the decisions taken by the invited state governments with respect to their participation in the Exhibition, immediately after receiving the information. He must also provide the documents in which such Governments notify the Exhibition Commissioner of their consent to participate, the appointment of National Section Commissioners, spaces chosen by the participating states, and the Participation Contracts signed.

The Commissioner provides the BIE with the texts of Special Regulations within the period established in Article 34 of the General Regulations. He notifies the BIE on the status of preparations for the Exhibition, mainly through the reports provided at each BIE session.

The Commissioner provides for the use of the BIE flag in accordance with the established provisions. He is responsible for the meeting of the BIE delegates within the framework of the official visit to the Exhibition.

The Exhibition Commissioner shall ensure that the Organiser uses all suitable means and, in particular, the documents, to indicate that the Exhibition has been recognized by the BIE.

The Commissioner shall timely provide to the BIE legislative and other documents adopted by the Host State, so as to facilitate the participation of foreign countries in the Exhibition and ensure its success.

The Government of the Republic of Kazakhstan ensures payment of EUR 3.5 million by the Organiser to the BIE ("**Admission Fee Charge**"). After receiving a notice from the Exhibition Commissioner, the Organiser shall agree with the BIE on methods and procedure for Admission Fee Charge payment in accordance with BIE rules.

ARTICLE 7. COMMISSIONERS PANEL / STEERING COMMITTEE

At the earliest opportunity, the Exhibition Commissioner shall convene a meeting of the National Section Commissioners, who are the representatives of participating states, in order to nominate the Chairman and determine the composition of the Steering Committee that will represent these States, as well as to consider the issues of mutual interest and exercise powers provided for in Article 10 of these General Regulations.

The Steering Committee is composed of Commissioners of BIE member states. Should the number of the official participating states double after the elections, they are considered invalid and new elections must be held.

In case the Chairman of the Steering Committee is unable to exercise their powers for any reason, he/she should delegate them to another member of the Steering Committee.

ARTICLE 8. EXHIBITION ORGANISER

In order to organise and hold the Exhibition, in accordance with the Resolution of the Government of the Republic of Kazakhstan No. 11 dated 15 January 2013, the JSC "National Company "Astana EXPO 2017" ("**the Organiser**") has been created. The Organiser is responsible for the preparation and conduct of legal, legislative, financial and other measures necessary to ensure a successful Exhibition and enhance its prestige.

The Exhibition Commissioner shall communicate to the BIE (for the information of the Participants and for the BIE accounting purposes) the organisational structure, responsibilities and authority of the Organiser, as well as basic conditions concerning guarantees, benefits and limitations established by the Republic of Kazakhstan in connection with the Exhibition.

SECTION III.

OFFICIAL participants

ARTICLE 9. RIGHTS AND RESPONSIBILITIES

a) The Government of each participating country is represented by the Commissioner of the National Section (the "**National Section**" or "**Section**") that has been accredited in Kazakhstan. International organisations participating in the Exhibition as the Official Participants may also appoint a Section Commissioner.

The Section Commissioner, the Organiser, and the Exhibition Commissioner sign the Participation Contract.

The Section Commissioner alone is responsible for organisation and operation of their National Section, including the activities of all exhibitors and managers of commercial activities referred to in Chapter III of Section IV of these General Regulations, with the exception of employers specified in Section V of the General Regulations.

The Section Commissioner ensures that the members of their National Section abide by the rules established by the Organiser and approved by the BIE.

For the execution of their duties, the Section Commissioner is entitled to benefits provided for by the Special Regulations No. 12 referred to in Article 34 of the General Regulations.

The staff of the National Section have special benefits upon accommodation; the

benefits are listed in Special Regulations No. 6, referred to in Article 34 of the General Regulations.

b) All official Participants ("**the Official Participant**") have equal rights and obligations, except as specified below.

The Organiser can offer more favourable financial conditions to the Official Participants falling under one of the following categories: the least developed countries, the most severely affected countries, the landlocked developing countries and small island developing countries as listed by UN. Also, assistance may be provided to international organisations, participating in the Exhibition as the Official Participants.

These financial conditions may include:

- payments for general services provided for in Article 15 of the General Regulations.
- fees from commercial activity provided for by Article 20 of the General Regulations.
- other necessary conditions for participation of these countries.

These conditions must be expressly provided for in the Participation Contracts, outlined in the BIE, with such countries or international organisations.

c) The Organiser ensures that the Official Participants have greater privileges than unofficial participants, in accordance with Article 3 of the Special Regulations No. 2.

ARTICLE 10.

DISPUTE SETTLEMENT

Disputes arising between the official participants or between the official participants and the Organiser are resolved as follows:

1. If a dispute concerns interpretation of the General Regulations, Special Regulations or Participation Contract considered in the framework of the Convention relating to International Exhibitions of 22 November 1928 ("**the Convention**") or mandatory BIE rules, the Steering Committee of the Commissioners Panel acts as the arbitrator, after appealing, if necessary, for the opinion of BIE President who provides recommendations with the assistance of the appropriate Vice-President(s) and the Secretary General. The Exhibition Commissioner or the Organiser can also seek the aforementioned opinion. The decision of the Steering Committee shall enter into force immediately without the appeal right. During its next session, the General BIE Assembly notifies whether it approves the interpretation of the Steering Committee of the Commissioners Panel; in this case the above interpretation will be a precedent for future similar cases; otherwise, the General BIE Assembly provides the interpretation that shall be used.
2. If the dispute concerns the origin of the exhibits, the Steering Committee makes this known to the Commissioners Panel in accordance with paragraph 3 of Article 19 of the Convention.
3. If the dispute is resolved by the Exhibition Commissioner in accordance with the General Regulations, either party to the dispute may request a preliminary recommendation from the Steering Committee.

4. In order to resolve other disputes, each of the parties to the dispute has the right to request arbitration:

- In the first instance - with the Exhibition Commissioner acting alone;
- in the second instance - with the Exhibition Commissioner issuing the decision after consultation with the Steering Committee of the Commissioners Panel;
- In the third instance - with the Steering Committee of the Commissioners Panel.

The decision will be taken in the instance required by the party to the dispute that has chosen the highest authority.

3. The above-mentioned decisions must be made within ten days. Otherwise the dispute, if it falls under the above paragraphs 1, 3 or 4, should be submitted to the Commissioners Panel which issues a decision within five days.

Otherwise, the request of the party that initiated the dispute is considered unreasonable.

SECTION IV. GENERAL PARTICIPATION CONDITIONS

CHAPTER I.

ADMISSION

ARTICLE 11.

ADMISSION OF ITEMS AND EXHIBITION MATERIALS

The Exhibition is restricted to those items and exhibition materials which contribute to the development of the Theme specified in Article 1 of the General Regulations and are included in the attached list.

The origin of these exhibits is governed by the provisions of Article 19 of the Convention.

The procedure for checking compliance with the Exhibition theme is defined in the Special Regulations No. 1 referred to in Article 34 of the General Regulations.

ARTICLE 12.

ADMISSION OF EXHIBITORS

Exhibitors of National Sections are selected by the Section Commissioner and are under his or her sole responsibility.

Exhibitors who do not belong to any section, in particular, non-governmental organisations or corporations, apply directly to the Organiser with regard to participation issues. The Organiser must inform the government of the exhibitor's state of origin about the intentions of the respective exhibitors immediately after their application to the Organiser.

ARTICLE 13.

EXHIBITION PAVILIONS

Exhibition pavilions are divided into the following categories:

- a) Pavilions devoted to studying the Exhibition's theme, as established by the Organiser;
- b) National pavilions and pavilions of international organisations;

- c) Multinational pavilions for states with a common bond, or those referred to in Article 9b) above;
- d) Corporate pavilions, which are administered by the Section Commissioner and represent the State to which they belong.

CHAPTER II.

PREMISES - INSTALLATION - PAYMENTS

ARTICLE 14.

PREMISES

The total usable floor space provided for the possession and use to the National Sections shall be at least equal to the area allocated to the Section of the Host State. However, if the area is not fully occupied six months before the Exhibition opening, the Organiser may freely dispose of the unoccupied area.

Rent is not charged for the premises allocated to the Official Participants.

The Official Participants receive confirmation of premises allocated to them, after the announced theme proposed by the National Section is approved by the Organiser, in accordance with the Special Regulations No. 1 referred to in Article 34 of the General Regulations.

ARTICLE 15.

GENERAL SERVICES

The Organiser provides gas, electricity, telecommunications, water and sanitation, garbage disposal and other services at the expense of each Participant. Fees for these services correspond to the official rates which are currently in use in the city of Astana.

Participants are responsible for cleaning, general maintenance, garbage collection and other activities that are typically required in connection with operation of the Exhibition premises. If a Participant fails to fulfil these obligations, the Organiser may carry out the relevant activities on its own and issue invoices for all related costs.

Terms of providing common services are outlined in Special Regulations Nos. 4, 5 and 10 referred to in Article 34 of the General Regulations.

ARTICLE 16.

BUILDINGS AND INSTALLATIONS

Participants may not make changes within the Exhibition area without prior approval of the relevant documentation by the Organiser. Earthworks, landscaping and, in general, any changes around the buildings must also be pre-approved by the Organiser. Similarly, the documentation compiled by the Organiser may be amended only with the consent of the relevant Participants or the permission of the Steering Committee of the Commissioners Panel.

The Special Regulations No. 4 referred to in Article 34 of the General Regulations contain reference to building standards and rules, which are in force within the Exhibition venue. The aforementioned regulations also establish special conditions applied at the Exhibition in view of the temporary nature of the constructed buildings and improvements. In addition, Participants may apply to the Exhibition Commissioner to revoke these rules. In this case, the Commissioner may decide independently or entrust the solution to the relevant competent authority of the Republic of Kazakhstan.

The Special Regulations No. 5 referred to in Article 34 of the General Regulations specify the conditions for the installation and operation of machinery, apparatus and equipment which may be used by the Participants.

ARTICLE 17.
PREMISES TRANSFER

The premises must be made available to the Participants no later than 2 January 2017, and the import of exhibition objects should be allowed by 3 April 2017.

Installation of equipment and interior furnishings must be completed by 8 May 2017, and the installation of exhibits - by 26 May 2017.

The facility space made available to Participants should be vacated and returned to its former state no later than 15 December 2017.

ARTICLE 18.
EXHIBITS REMOVAL

Exhibits or any part thereof cannot be removed from the Exhibition without the consent of the Exhibition Commissioner.

If a Participant cannot fulfil its obligations to the Organiser, then on the closing day of the Exhibition, at the expense of the Participant and at its own risk, the Exhibition Commissioner is entitled to implement the dismantling, removal, seizure and sale of the Participant's goods located within the exhibition area, except for items representing assets of a foreign state or national heritage; the amount due to the Exhibition Organiser should be deducted from the proceeds received from such sale.

CHAPTER III.

COMMERCIAL AND OTHER ACTIVITIES

ARTICLE 19.
GENERAL PROVISIONS

Commercial and other activities carried out by National Sections must be authorized in accordance with the General Regulations or the Participation Contract or the Exhibition Commissioner's decision. The Official Participants may use any of the special privileges granted to other Official Participants.

These activities, including e-commerce, are the sole responsibility of the relevant Section Commissioner. If such commercial or other activity involves payment of fees in accordance with the Participation Contract, the Section Commissioner shall receive such charges.

The premises intended for commercial activities and open to the public shall not exceed 20% of the total covered area of the Exhibition, so that the presence of National Sections meets the provisions of Article 1 of the Convention.

ARTICLE 20.
BUSINESS ACTIVITY

In accordance with the conditions stipulated by the Special Regulations No.9 referred to in Article 34 of the General Regulations, the Official Participants may open restaurants offering mainly national dishes of their respective countries.

In accordance with the conditions laid down by the same rules of the Special Regulation No. 9, referred to in Article 34 of the Basic Regulation, Official Participants shall have the right to sell to visitors: photos including slides, cards, audio and video recording (on tape, CD, DVD-ROM), books and postage stamps, brought from their countries. With the permission of the Organiser, the Official Participants may also sell a limited number of objects specific to their countries. These items can be replaced during the Exhibition. This rule also applies to e-commerce.

The objects and items exhibited in the National Sections, as well as materials used to install presentations may be sold ready for delivery after the Exhibition is over. In this case the exhibitor loses the right to temporary import benefits, and the relevant customs and taxation rules will apply. The Organiser does not receive any payments from such sales.

If the Organiser provides certain exclusive commercial rights to certain suppliers to sell goods or services, these rights shall not interfere with the commercial activities of the Official Participants, regardless of whether these activities relate to restaurants or sale of items in the National Sections.

In granting these rights, the Organiser shall respect the principle of non-discrimination between national and foreign companies and avoid any imbalance between the number and the nature of such rights, the possible number of Exhibition visitors and excessive commercialization, which leads to a retreat from the goals of the international exhibition, set by the BIE.

ARTICLE 21. STAFF CATERING

Any Participant has the right to open a restaurant and a snack bar exclusively for their staff. This activity does not require any fees to be paid to the Organiser or the Exhibition Commissioner.

ARTICLE 22. DISTRIBUTION OF FREE SAMPLES

With the permission of the Exhibition Commissioner, the Section Commissioners and exhibitors under their control may distribute free samples of their products or offer free product samples for testing within their section.

ARTICLE 23. PRESENTATIONS AND SPECIAL EVENTS

The Official Participants may arrange shows, special events, presentations or meetings related to the Exhibition theme. In each case the conditions should be

mutually agreed between the Exhibition Commissioner, the Organiser and the Section Commissioner.

ARTICLE 24. PUBLIC COVERAGE

- a) The Participants may place signboards, posters, ads, as well as printed and other similar materials on their stands and pavilions.
- b) The display of any printed material outside the stand or pavilion is subject to prior approval by the Exhibition Commissioner. The Exhibition Commissioner may demand to remove of all signs displayed without their prior approval.
- c) Brochures and flyers are distributed only within the Section.
- d) Any public coverage relating to special events, celebrations, etc. at the Exhibition shall be allowed by the Exhibition Commissioner. Any advertising with sound effects is prohibited.

CHAPTER IV.

GENERAL SERVICES

ARTICLE 25. CUSTOMS REGULATIONS

In accordance with Article 16 of the Convention and its appendices relating to customs regulations and administration to which it refers, the Special Regulations No. 7 referred to in Article 34 of the General Regulations define the relevant customs regulations to be applied, as appropriate, to goods and transportation vehicles of foreign origin intended for the Exhibition.

ARTICLE 26. PROCESSING AND CUSTOMS PROCEDURES

For the purposes of proper management of the Exhibition, a company affiliated with the Organiser will be established. It will be the customs representative in charge of goods and vehicles clearance and other Exhibition-related activities.

Alternatively, the Participants may use the services of other entities included in the Organiser's list and having the right to operate as a customs representative in accordance with the laws of the Republic of Kazakhstan. This list will consist of no more than two legal entities.

Each exhibitor shall independently arrange for the acceptance of goods and transportation vehicles on the ground, shipping containers, as well as the inspection of their contents. In the absence of exhibitors or their customs representatives upon the arrival of shipping containers to the Exhibition, the Exhibition Commissioner may place them in storage at the expense of the exhibitor and under their personal responsibility.

ARTICLE 27. INSURANCE

I. Individual insurance.

- a) *Compulsory insurance required by law*
1. Accidents at workplace

In accordance with current legislation of the Republic of Kazakhstan, namely the Civil Code (No. 409-I, dated 1 June 1999), the Labour Code (No. 251-III dated 15 May 2007), the Law on compulsory insurance of employees against accidents at workplace (No. 30-III dated 7 February 2005), each Section Commissioner is obliged to insure their employees and exhibitors against accidents in the performance of their duties under the conditions stipulated by the Special Regulations No. 8 referred to in Article 34 of these General Regulations.

2. Accidents caused by vehicles

In accordance with current legislation of the Republic of Kazakhstan, namely the Civil Code (No. 409-I, dated 1 June 1999), the Law on compulsory insurance of civil liability of vehicle owners (No. 446-II dated 1 July 2003), the National Section staff, exhibitors and other persons under the jurisdiction of the Section Commissioner owing vehicle must enter into civil liability insurance contracts with relation to harm caused to life, health and (or) property of third parties resulting from the operation of vehicles under the conditions of the Special regulations No. 8 referred to in Article 34 of the General Regulations.

3. Accidents resulting from hazardous activities

In accordance with current legislation of the Republic of Kazakhstan, namely the Civil Code (No. 409-I, dated 1 June 1999), the Law on compulsory insurance of civil liability of owners of facilities whose operations are fraught with the risk of causing damage to third parties (No. 580-II dated 7 July 2004), the National Section staff, exhibitors and other persons who are subordinate to the Section Commissioner and own objects, whose activities may cause harm to third parties, must enter into civil liability insurance contracts in order to redress the harm caused to life, health and (or) property of third parties as a result of occupational hazards in accordance with the conditions laid down in the Special Regulations No. 8 referred to in Article 34 of the General Regulations.

b) *Compulsory insurance required by these Regulations*

1. Civil liability

The Organiser enters into a group insurance contract in respect of their civil liability in accordance with the Special Regulations No. 8 referred to in Article 34 of the General Regulations. The validity of the insurance contract, which must be concluded with an insurance company offering the most favourable conditions, starts on 2 January 2017 and ends on 15 December 2017.

The Official Participants may use the insurance coverage provided by the aforementioned insurance contract or provide evidence that they have entered into an insurance contract in respect of similar risks with other insurance company approved by the Organiser.

II. Goods insurance

a) Goods belonging to the Host State or the Organiser.

Insurance against theft, damage or destruction of real or personal property is the sole responsibility of the owner of the property and cannot be transferred to the Official Participant in the form of an additional payment, even if the Official

Participant uses this property permanently or periodically.

b) Goods belonging to the Official Participants.

Insurance of movable and immovable property in the event of theft, damage or destruction is the sole responsibility of the goods owner.

c) The Exhibition Commissioner, Organiser, the Section Commissioners and their exhibitors mutually hold each other harmless in cases of significant damage caused by fire or other emergencies, except for fraud and/or intentional breach of obligations and/or gross negligence by the other party.

This hold harmless clause will automatically come into force with respect to each Section Commissioner upon ratification of the Participation Contract. All insurance contracts of movable or immovable property held by persons referred to in the preceding paragraph, also in the form of an agreement on expansion of insurance coverage under a group insurance contract or as a separate insurance contract, shall contain the hold harmless clause, which also shall be included in the participation contracts.

III. Other insurance

The Organiser can assist the Participants in processing applications for medical insurance coverage of their staff or exhibitors in case they do not have medical insurance. To this end, the Participants can use the services of insurance companies included in the Organiser's list.

ARTICLE 28. SURVEILLANCE SYSTEM

In accordance with the conditions stipulated by the Special Regulations No. 10 referred to in Article 34 of the General Regulations, the Organiser shall establish a common Surveillance System to ensure order and security, prevent violations of the law, and enforce rules.

According to the conditions laid down in the said Special Regulations No. 10, Section Commissioners may establish a separate system of surveillance in their Sections.

ARTICLE 29.

CATALOGUE

Each Participant (official and unofficial) must cooperate with the Organiser on all matters of publication, production, transfer of materials required for promotion of the Exhibition. The Commissioner of the respective Section must approve the contents of such materials.

The Commissioner of each Section is entitled, at their own expense, to print and publish the official catalogue of the objects represented in their Section.

ARTICLE 30.

ADMISSION TO THE EXHIBITION

- a) The terms of admission to the Exhibition are set forth in the Special Regulations No. 13 referred to in Article 34 of the General Regulations.
- b) With the consent of the Exhibition Commissioner, the Organiser shall determine the entrance fee.
- c) No other entrance fee may be charged at the Exhibition without the BIE's permission.
- d) Invitations with unlimited or limited duration, free passes for exhibitors and employers, as well as passes for service personnel shall be issued in accordance with the conditions stipulated in the Special Regulations No. 13.

CHAPTER V.

INTELLECTUAL PROPERTY

ARTICLE 31.

GENERAL PROVISIONS

The Special Regulations No. 11 on the protection of patent rights and copyrights, referred to in Article 34 of the General Regulations, shall contain the following:

- Information on the action in the Republic of Kazakhstan:

- Berne Convention for the Protection of Literary and Artistic Works of 9 September 1886

- Geneva Copyright Convention of 6 September 1952

ARTICLE 32.

EXHIBITION IMAGES

The Commissioner of the respective Section must approve any reproduction and sale of images of the Official Participant's pavilion. However, the Organiser reserves the right to authorize reproduction and sale of common images of the Exhibition. Participants may not oppose such reproduction or sale.

–Paris Convention for the Protection of Industrial Property of 20 March 1883

- References to the applicable laws of the Republic of Kazakhstan

- Special measures taken in connection with the Exhibition (if any).

Security Officers shall prevent sketching, copying, measuring, photographing, making casts of the Exhibition items etc. carried out for commercial purposes without the written permission of the exhibitor.

CHAPTER VI.

AWARDS

ARTICLE 33. AWARDS

In accordance with Articles 23 and 24 of the Convention, assessment and distribution of awards, depending on the merits of the exhibits, is carried out by an international jury. The rules of its operation are described in the Special Regulations No. 14 referred to in Article 34 of the General Regulations.

Organisation of competitions among National Sections is prohibited.

Members of the jury are not allowed to participate in the competition. The Section Commissioner must inform the Exhibition Commissioner, if the National Section or exhibitor chooses not to participate in the competition.

CHAPTER VII.

SPECIAL REGULATIONS

ARTICLE 34. LIST OF REGULATIONS AND TERMS OF THEIR DEVELOPMENT

The Host State provides drafts of Special Regulations for the BIE's approval. These regulations, in particular, regulate the following issues:

1. *Special Regulations No. 1.* Definition of the Exhibition Theme and the Means of its Implementation by the Organiser and the Participants;
2. *Special Regulations No. 2.* Conditions for the participation of States, international organisations and private exhibitors;
3. *Special Regulations No. 3.* Operating rules of the Steering Committee of the Commissioners Panel;
4. *Special Regulations No. 4.* Rules for construction or improvements and fire protection measures;
5. *Special Regulations No. 5.* Rules for installation and operation of machinery, devices and equipment of all kinds;
6. *Special Regulations No. 6.* Residential space for National Sections staff of the official participating countries;
7. *Special Regulations No. 7.* Rules governing the customs clearance procedure and any related fees and charges;
8. *Special Regulations No. 8.* Insurance;

9. *Special Regulations No. 9.* Conditions under which the Official Participants may operate restaurants or carry out sales;

10. *Special Regulations No. 10.* Regulations on common services:

- Health and hygiene;
- Surveillance and security;
- Water, gas, electricity, heating, air conditioning, etc.;
- Telecommunications.

11. *Special Regulations No. 11.* Patent and copyright protection. These regulations should specify that each Section Commissioner can use the title, logo and other attributes of the Exhibition free of charge;

12. *Special Regulations No. 12.* Benefits and Privileges for Section Commissioners and their staff;

13. *Special Regulations No. 13.* Rules governing the admission to the Exhibition;

14. *Special Regulations No. 14.* Rules governing prize award procedure.

The abovementioned regulations 1 through 10 shall be submitted at least two years prior to the Exhibition opening. The regulations 11 through 14 shall be submitted at least one year prior to the Exhibition opening.

The regulations shall be submitted to the Steering Committee of the Commissioners Panel immediately after its formation. The Steering Committee examines them and provides comments to the BIE.

Other rules developed by the Organiser for the purposes of the Exhibition come into force only after they are studied by the Steering Committee of the Commissioners Panel.

Despite the deadline set for the approval of these Special Regulations, the Organiser must provide the Participants with the information needed to assess the participation costs in advance.

SECTION V.

SPECIAL CONDITIONS CONCERNING EMPLOYERS

ARTICLE 35. GENERAL PROVISIONS

Within the framework of these General Regulations, employers are those to whom the Organiser has granted the right to conduct business within the territory of the Exhibition. Employers must conclude an employment contract with the Organiser. The contract sets forth the conditions for carrying out commercial activities within the territory of the Exhibition.

The above provisions of the General Regulations apply to employers, except for the following provisions which apply only to the Official Participants:

- Articles 6, 7, 9 and 10;
- Chapter I, Section IV;
- Article 14;
- Chapter III, Section IV, except for Article 24;

- Chapter IV, Section IV, with the exception of Article 27.II.C;

Chapter VI, Section IV; Special Regulations specified in Article 34 of the General Regulations under numbers 1, 3, 6, 7, 9, 10, 12 and 14. Other terms and conditions are established in the Participation Contract. They must comply with the provisions of Articles 17, 18 and 19 of the Convention.

ARTICLE 36. ADMISSION OF EMPLOYERS

Individuals and legal entities from states, which are the Official Participants of the Exhibition, may be admitted as employers only with the consent of the Section Commissioner from the State of their origin. The latter may provide special conditions for their admission.

SECTION VI.

COMPENSATION IN CASE OF CANCELLATION OF THE EXHIBITION

ARTICLE 37

In case of refusal to organise the Exhibition, the Organiser shall compensate the States, which accepted the participation offer, any costs incurred, provided they are duly justified and directly related to their participation in the Exhibition.

Despite this, the compensation is not paid if the Exhibition is cancelled due to force majeure resulting from natural disasters, recognized as such by the BIE General Assembly upon the recommendation of the Executive Committee.

The compensation size is set by the final decision of the BIE General Assembly upon the proposal of the Executive Committee which has considered the application, documents and evidence submitted by the Host State, the Organiser and all the involved parties.

ARTICLE 38

In addition, the Organiser shall compensate the BIE's expenses in the amount determined by the General Assembly upon the proposal of the Administration and Budget Committee.

The Government of the Republic of Kazakhstan guarantees the payment of the Admission Fee Charge in the amount of EUR 3.5 million to the BIE by the Organiser. After receiving a notice from the Exhibition Commissioner, the Organiser shall agree with the BIE on methods and procedure for Admission Fee Charge payment in accordance with the BIE rules.

ARTICLE 39

The Organiser undertakes to fulfil obligations under the aforementioned Articles 37 and 38 of the General Regulations, which shall be guaranteed by

the State applying for the registration of the Exhibition.

The maximum amount of the aforementioned compensation payments is to be determined before registration, as agreed between the BIE on the one side and the Organiser of the Exhibition on the other side.

These obligations are part of the documentation required for registration.

ARTICLE 40

The Government of the Republic of Kazakhstan undertakes to fulfil all commitments made during the bid campaign for the Exhibition. As it was stated during the campaign, the Organiser is going to allocate the sum of EUR 62 million to assist the developing countries willing to participate in the Exhibition. The total amount of EUR 62 million should satisfy the needs of more than 60 countries, depending on the availability of space at the Exhibition.

Funds will be allocated to provide assistance to the following countries:

- a) LDC (the Least Developed Countries);
- b) SIDS (Small Island Developing States);
- c) LDC (Landlocked Developing Countries);
- d) International organisations.

The abovementioned countries meet the UN classification.

The allocated budget covers the following costs:

Common elements:

- Pavilion design and equipment;
- Common areas design;
- Total content design;
- Content production
- Common content installation and operation;
- Shared content disassembly and removal;
- Insurance of common areas by third parties.

Local staff:

- Pavilion Director;
- Assistant Directors
- VIP and Protocol;
- Entertainment Manager;
- Administrative support;
- Stand-assistant / pavilion ushers in public areas;
- Adding stand-assistant staff / pavilion ushers;
- Service.

Participant's staff:

- Travel / Transportation;
- Accommodation in Expo City;
- Per diem allowance;
- Uniform / costumes.

Entertainment

Permanent Entertainment Group includes the following:

- Actors / fee;
- Travel / Transportation;
- Business travel expenses / per diem;
- Accommodation.

Operation / Operating activities:

- Resources (electricity, gas, water);
- Cleaning;
- Security;
- Local transportation;
- Insurance.

Other elements:

- Office furniture and materials;
- Miscellaneous.

National Day:

- Performance group;
- Cocktails / Official reception.

In order to create an effective program, the Organiser will set up the project assistance plan in 2014, after registration of the Exhibition with the BIE. This plan includes the conceptual proposals, financial plan, and a calendar.



SPECIAL REGULATIONS No. 1

DEFINITION OF THE EXHIBITION THEME AND THE MEANS OF ITS IMPLEMENTATION BY THE ORGANISER AND THE PARTICIPANTS

SPECIAL REGULATIONS NO. 1

DEFINITION OF THE INTERNATIONAL RECOGNISED EXHIBITION EXPO 2017 IN ASTANA (“**THE EXHIBITION**” OR “**EXPO 2017**”) THEME AND THE MEANS OF ITS IMPLEMENTATION BY THE ORGANISER AND PARTICIPANTS.

ARTICLE 1 PURPOSE

The purpose of these Special Regulations is to define the Theme of the International Recognised Exhibition EXPO 2017 Astana (“**the Exhibition**” or “**EXPO 2017**”) in accordance with Articles 1 and 34 of the General Regulations of the Exhibition and the decisions taken at the 115th and 118th General Assembly of the International Exhibitions Bureau concerning the importance of determining the theme of international exhibitions and the measures to be taken by the JSC “National Company” Astana EXPO 2017” (“**the Organiser**”) and the Participants to develop the Themes of the Exhibition.

ARTICLE 2. THEME. TITLE AND SUBTITLE.

The title of the Exhibition Theme is “Future Energy”; its subtitle is “The solution of the greatest challenge of humanity” (“**the Theme**”).

ARTICLE 3. GENERAL PRINCIPLES

In order to ensure understanding by the Participants of the Exhibition Theme, as well as the relevance of exhibits in the

Participants’ pavilions, the following principles must be respected:

- i. The Organiser and the Participants must abide by the rules set forth in the General and Special Regulations of the Exhibition.
- ii. The Organiser undertakes to help the Participants to comply with the relevance of the exposition to the Exhibition Theme by providing all the information that the Organiser deems necessary. The Organiser must also study the Participants’ *Theme Statement* and the accompanying documentation, provide comments on the necessary changes to the exposition of the Participants (if any) and answer questions of the Participants at any time, from the date of invitation acceptance until the approval of the *Theme Statement*.

In addition, the Organiser is obliged to provide resources and establish coordination to achieve this objective.

- iii. Tasks and objectives of the Exhibition:

- Promoting the best international practices in the field of sustainable energy development;
- Promoting scientific and technological development in the field of clean energy;
- Sharing knowledge about the Future Energy among all stakeholders: exhibitors, academic institutions and the scientific community, industry, civil society and other institutions;
- Raising awareness about the opportunities, challenges and demand for Future Energy;
- Promoting education, training and knowledge through art, culture and entertainment;
- Creating an innovative platform for dissemination of modern technology and knowledge, with a view to create sustainable and green future;
- Positioning Kazakhstan as a country with dynamic economy, committed to a sustainable development model.

All these goals are united by the single strategic objective:

To inform the international community at the national, corporate and individual levels about the need for policies and decisions aimed at promoting sustainable energy in order to ensure the optimal model of the energy future of the planet. In connection with this, the Participants should take notice of the above objectives and facilitate their implementation in their expositions.

- iv. The Participants may present any number of sub-themes at their choice. Article 5 of these Special Regulations presents the sub-themes that the Exhibition Theme is comprised of.
- v. Participants shall develop each sub-theme, using at least two out of five approaches listed below (according to the matrix specified in annex I to the present Special Regulations):
 - a. Scientific research;
 - b. Hi-tech;
 - c. Management;
 - d. Innovative business models;
 - e. Values transformation.

ARTICLE 4. THEME DEFINITION

Energy has played a key role in the development of the universe and its components: galaxies, stars, planets, species, human society, etc. **It is also clear that the development of human civilization would be impossible without energy.** For centuries, energy consumption has been opportunistic and often ignored the environmental consequences. Therefore, at the present time mankind is facing severe problems in the energy sector: the reduction of natural resources and environmental pollution.

Energy is at the basis of our modern life, starting with the main economic activities (production of consumer goods, transport, industry and telecommunications) and ending with household amenities.

Where do we get energy (including new sources of energy)? How do we produce it and how can we use the known sources of energy? How can we ensure the availability and low cost of energy and the related technologies and reduce their impact on the environment? How can we ensure energy security and access to clean energy and reliable energy supply for all? These are priority issues which confront mankind and require urgent solutions.

Consequently, one of the main objectives of the international community is to develop clean technologies providing access to a continuous and unlimited energy supply, as well as to promote their comprehensive implementation on a global scale. This will allow us to solve problems arising in connection with energy security and climate change, as well as to meet the growing demand for energy.

In this context, Future Energy theme allows solving global energy problems which have direct impact on the basic aspects of life on our planet: global warming and climate change, economic development, energy security and resource scarcity, access to drinking water, protection of biodiversity, creation of equal opportunities for countries, regardless of their level of development.

The Exhibition provides an international platform to the participating states, organisations and companies for a global debate, in which all parties can discuss their specific approaches and offer solutions to basic energy problems. The Exhibition gives reliable and practical information to visitors, which, in turn, will allow them to play a key role in these discussions.

Technology as a set of methods, processes and materials used in the energy sector is one of the key concepts that should be considered by the Participants. Technology is of fundamental importance in the framework of the Theme; it is directly linked to achievement of the Exhibition objectives. Energy and technology are closely interlinked.

Given the differences in the technological development level and access to energy in a variety of strategically important regions of the world, it is extremely important to determine the combination of policies and technologies that are the most effective in specific circumstances.

In this regard, some of the major tasks in the energy sector of the future must: (i) identify sustainable patterns of energy supply; (ii) improve energy efficiency; (iii) increase the share of clean and renewable energy; (iv) establish and maintain power distribution networks required to meet the growing demand; and (v) promote universal access to sustainable electricity.

ARTICLE 5.

THEME DEVELOPMENT: SUB-THEMES AND UNDERSTANDING

Future Energy as the theme of EXPO 2017 is divided into the following three sub-

themes: (i) Reducing CO₂ Emissions; (ii) Living Energy Efficiency; and (iii) Energy for All.

i. Reducing CO₂ Emissions

This sub-theme highlights the importance of reducing CO₂ emissions through the development of a set of low-carbon technologies. Encouraging the development of clean energy and renewable sources, carbon capture and storage (CCS) and, perhaps, hydrogen energy and nuclear fusion in the future will play a crucial role in reducing CO₂ emissions. Participants can expand on this sub-theme by using the following concepts:

a. *Renewable energy*: the Earth is rich in natural energy resources that can be used without harming the environment. Sun, wind, water, geothermal energy, as well as live plants, - all these energy sources can satisfy human needs for energy in a sustainable way.

Renewable energy sources contribute to environmental protection, preservation of our health and are particularly advantageous for the economy, because they reduce pollution, help to slow global warming and develop the industry, thereby creating new jobs. It is essential that renewable energy sources be adapted in countries with the emerging economies as well as in the developing countries.

Renewable energy sources in the broad sense can be defined as energy received from the following sources: sunlight; wind; rain; ocean; geothermal heat and biomass.

Currently, through the use of advanced technology, we note the extraordinary progress in the field of renewable energy. However, in addition to new technologies, support from governments committed to this idea is just as important.

In particular, a considerable potential to increase the production and use of renewable energy lies in the field of electricity generation. Two interesting aspects worthy of consideration should be noted:

- Energy decentralization and regional strategies: the production of electricity from renewable sources is decentralized in its nature and does not have to be part of a unified system of distribution;
- Smart grids: Smart grids optimize the entire electrical system and allow users to control the use individually, selling or buying excess energy through smart grids. These power grids completely transform the way in which electricity is produced, distributed and consumed.

b. *A future in hydrogen.* Hydrogen, one of the most widespread elements on the planet, can be an important alternative to fossil fuels in the long run. Methods of hydrogen production are many. But there are problems related to the cost of production and storage of hydrogen, as the substance is extremely flammable, especially when stored under high pressure.

c. *Carbon capture and storage (CCS):* It is expected that in the coming two decades, energy consumption will increase by 40-50%, and fossil fuels (coal, oil and gas) will remain a significant source of energy until the middle of the XXI century. Due to the use of fossil fuels in the foreseeable medium term, the share of CO₂ emissions will increase dramatically. In this context, reducing emissions is one of the most urgent problems.

One of the technological alternatives to reduce emissions is CCS technology. This process involves separation, collection and storage of CO₂ resulting from production, processing and combustion of fossil fuels. This prevents the release of large CO₂ amounts to the atmosphere.

CCS can play a vital role in reducing CO₂ emissions, provided the problems of

effectiveness and costs, which now characterize CCS projects, are solved.

d. *Fusion energy:* Thermonuclear energy is generated by thermonuclear fusion reaction. This process is not identical to nuclear fission which is widely used in the world today.

Artificial nuclear fusion is a promising opportunity in the future production of environmentally clean and safe electricity in almost unlimited quantities. However, production costs of this energy on a large industrial scale are extremely high. Also, security issues on the use of nuclear fusion have not been completely resolved. At the same time, the development of technologies which allow safe use of fusion processes in power plants is strategically important.

ii. Energy Efficiency Lifestyle

The sub-theme focuses on energy efficiency as the one of the priority options for an adequate response to the energy challenges of the future in the fight against climate change. Participants can expand on this sub-theme by using the following concepts:

a. *Energy efficiency:* Energy efficiency means improving the way we use energy in all aspects of daily life, and this is where the involvement of ordinary people is essential. This is the most important aspect in the development of strategies for more efficient use of energy in cities, buildings and transport, based on cheaper energy options with less greenhouse gas emissions.

b. *Urban planning and buildings:* There is a huge potential for energy savings by improving urban planning, as well as modernization of buildings and introduction of energy efficiency standards for new buildings.

These technologies and methods, such as bio-climatic design processes and tracking energy consumption for heating, ventilation, air conditioning systems and insulation, can reduce energy consumption. These measures, combined with efficient lighting systems, passive solar systems, behavioural change and the formation of a responsible lifestyle contribute to energy efficiency. The Exhibition can serve as a wonderful opportunity to demonstrate these techniques and technologies.

c. Efficient transport: According to the International Energy Agency (IEA), transport accounts for almost 55% of the world oil consumption. It is therefore necessary to implement the transport policy that would promote the use of public transport, as well as the alternatives such as bicycles, electric vehicles, as well as transport running on biofuels and fuel cells. Bigger number of passengers in a vehicle, along with technological innovation, will contribute to a more efficient and rational use of public transport.

d. Efficient industry: Industry accounts for about one-third of the world energy consumption and produces almost 40% of world CO₂ emissions (according to the IEA). Industrial companies are energy-intensive clusters requiring the introduction of technological and engineering solutions aimed at energy conservation. Regardless of the fact that every industry has its own power requirements, most of the processes are not possible without high temperatures and / or voltage production releasing waste heat.

The innovative technologies (e.g., thermochemical and thermo-acoustic heat pumps) for the use of waste heat in production or energy recovery network are of great interest.

There are other rational solutions to improve energy efficiency in industrial production: replacing old equipment with more technological, introduction of automation and process control systems

and power consumption regulating software.

iii. Energy for All

This sub-theme determines access to energy as a basic human right and a need, particularly in the developing countries. The poorest sections of the population suffer from a lack of affordable, clean energy, as well as environmental pollution. Free access to electricity is needed for the transition of these economies to a more sustainable development model. Participants can expand on this sub-theme by using the following concepts:

a. Energy against poverty: Access to energy is one of the basic human rights in the modern world, which is the key to poverty eradication in the developing countries. The lack of electricity has a negative impact on various aspects of social development: health, access to drinking water, agricultural productivity, etc.

It is important to highlight two energy poverty problems: lack of access to electricity and the traditional use of biomass for cooking. Lack of access to electricity means the absence of opportunities for the society development. The traditional use of biomass (in this case there is a concept of modern cultivated biomass which is considered an alternative energy source) for cooking leads to various diseases and increases mortality. The most acute problem persists in sub-Saharan Africa, where 80% of the population use biomass, because the electrification rate is only 30%.

A large social gap deprives more than one-fifth of the world's population of access to electricity. Wider access to clean electricity requires active participation of the international community, public and private sector. Energy access objectives should be linked with those of combating poverty.

b. *Access to sustainable energy development:* Access to modern and clean energy services is crucial to accelerate economic and social growth. In other words, it is essential to provide adequate water, sanitation, medical care, etc. Efficient and reliable power supply meets basic needs for cooking, lighting and heating in households. But along with that it will provide power to mechanic, transport and telecommunications devices, and facilitate education development.

There is a clear correlation between access to modern energy services and the income level of the population - as incomes increase, access to electricity grows faster than the access to fuel for cooking. This is due to the fact that governments give priority to electrification. Electricity always has a unique value: lighting and communication are the necessary basis for high-quality and large-scale education, as well as international integration.

In order to ensure access to cheap electricity, two key issues must be addressed: 1) finding ways to finance the high cost of electricity production; and 2) providing training and developing the markets.

c. *Decentralised Energy Systems:* In some cases, electricity supply to remote areas with low energy consumption and population density can be a costly solution. Decentralized solutions are essential, since the consumers' density is not important in such cases.

Electrification of poor population can be achieved in various ways, for example by installing solar panels on the roofs of buildings or construction of small hydropower plants. These small-scale and independent technologies with renewable energy sources ("from bottom-up" solution) will meet the electricity needs of rural areas at a lower cost and replace other, more expensive options for generating electricity.

A promising electrification method for rural areas is also a combination of different

sources of electricity production within the scope of mini-power systems.

ARTICLE 6.

SUPPORT BY THE ORGANISER

As concerns Theme development, the Organiser shall provide the Participants with the following support and information:

- a) A graphic illustration of the proposals and a detailed guide to Theme development.
- b) Consultation to the Participants at various stages of creating their expositions. Details regarding the consulting services will be communicated to all Official Participants.

ARTICLE 7.

MECHANISMS TO ENSURE COMPLIANCE WITH THE THEME

In accordance with the Special Regulations No. 2 regarding the conditions for the participation, the Participants shall submit applications to the Organiser for allocation of the exhibition space in the pavilions.

Together with the applications, the Participants shall provide a Theme Statement that needs to comply with the Exhibition Theme as described in Articles 4 and 5 of these Special Regulations.

The Theme Statement must meet the following minimum requirements and, in particular, include:

- (i) definition of the selected sub-themes and the concepts they represent;
- (ii) overall description of the Participant's anticipated expositions;
- (iii) indication as to which of the tasks listed in Article 3.iii of these Special Regulations is implemented by the Participant's exposition and a brief rationale;
- (iv) background material on how the theme and sub-themes will be disclosed in specific expositions;

- (v) description of the general plan of the exhibition pavilion exhibits and stand structures.

The Theme Statement shall be reviewed by the Organiser's Content Department. It is responsible for verifying that the Theme Statement correlates with EXPO 2017 Theme, general requirements of the Exhibition and provisions of the relevant Regulations.

In case of a negative decision by the Content Department due to non-compliance with the requirements specified in Article 6 of these Regulations, it is required to provide the necessary advice to the above Participant.

After analysing the Theme Statement, the above requirements are confirmed and changes (if any) are introduced to the document by the Participant. After that, the Content Department shall approve the final version of the Participant's Theme Statement and notify the Participant within five (5) calendar days after receiving the final version of the Theme Statement.

Allocation of Exhibition space cannot be considered final until the Theme Statement is approved by the Content Department.

As an integral part of the Application for allocation of the exhibition space, the Participant shall provide a document entitled "Exposition Design", which contains detailed description of the Participant's proposed project for the construction and installation of the exposition. The Exposition Design shall be submitted after the Theme Statement with a general description of the exposition. The Exposition Design shall meet the conditions

and requirements set out in the Special Regulations No. 4 dealing with construction and fire safety rules.

The Organiser must ensure that the Exhibition Project correlates with the Theme Statement and meets the provisions of Articles 4 and 5 of these Special Regulations.

Notwithstanding the Special Regulations No. 4 dealing with the construction, installation and fire safety rules, prior approval of the project for construction and installation works cannot be obtained without the approval of the Exposition Design documents by the Organiser.

If the Organiser does not approve the Exposition Design, it shall prepare a detailed description of inconsistencies and give suggestions regarding project improvement. Similarly, the Organiser may offer consulting services to the Participants in accordance with the provisions of Article 6 of these Special Regulations.

Based on the Organiser's recommendations, the Participant shall introduce changes to the substantive part of the exposition. In case of disagreement between the Organiser and the Participant, the issue will be referred to the Exhibition Commissioner for arbitration. If no agreement is reached, the provisions set forth in Article 10 of the General Regulations apply to settle the dispute.

ARTICLE 8 EXHIBITION CATALOGUE

For the preparation of the official Exhibition catalogue, the Participants shall submit the details of their exposition to the Organiser no later than 120 days before the Exhibition opening.

ARTICLE 9.

MEASURES TAKEN BY THE ORGANISER

The Organiser of the Exhibition contributes to the development of the Exhibition Theme by constructing the facilities of the thematic pavilions and open areas, the content and details of which will be outlined in separate publications for the Participants.

As the main part of the Exhibition, the Organiser plans to hold cultural and entertainment events, as well as conferences, seminars and workshops which will take place at forums related to the Exhibition Theme. The Organiser undertakes to inform the Participants about all planned events and forums.

Furthermore, the Official Participants are invited to develop the Exhibition Theme within the framework of their own activities of a similar nature. The Official Participants must submit their applications and plans on this matter to the Organiser no later than six months before the Exhibition opening. If necessary, the Organiser can provide assistance to the Participants with the event coordination and logistics.

ANNEX I. GENERAL MATRIX OF SUB-THEMES AND APPROACHES

FUTURE ENERGY				
Approaches to considering sub-themes		Sub-theme 1	Sub-theme 2	Sub-theme 3
Scientific research:	Scientific knowledge and research aimed at the future of energy. (Elaboration of concepts, new sources, use, trends, energy efficiency, etc.)	Reducing CO2 emissions	Energy Efficiency Lifestyle	Energy for All
Hi-tech:	Advanced technology solutions: products and services (electricity generation, storage, transmission, distribution and consumption; power system; security; energy efficiency, comfort etc.)	Renewable energy	Efficient use of energy	Energy against poverty
Management:	Solutions for public and corporate governance and their outcome: states, regional and local governments; supranational and multilateral agencies; corporations; NGOs and non-profit organisations; and other stakeholders (Management, performance, strategy, policy, management, technology and projects)	A future in hydrogen?	Urban planning and buildings	Access to Sustainable Energy Development
Innovative Business models:	Business plans for new energy markets. New types of business. Technology market, business opportunities, communication, entrepreneurs etc.	Carbon capture and storage (CCS)	Efficient transportation	Decentralised Energy Systems
Value transformation:	Changing the values due to social innovation through social networks and other platforms (e.g. cloud computing), social engagement and change of standard behaviour patterns.	Thermonuclear Fusion Energy	Efficient industry	



SPECIAL REGULATIONS No. 2 CONDITIONS FOR PARTICIPATION Astana EXPO 2017

Special Regulations No. 2 Conditions for Participation

Chapter I.

General Provisions

ARTICLE 1.

PURPOSE

The purpose of these Special Regulations No. 2 ("**the Special Regulations No. 2**") is to establish the conditions for participation in the International Recognised Exhibition EXPO 2017 Astana ("**the Exhibition**" or "**EXPO 2017**") in accordance with Sections III and IV of the General Regulations ("**the General Regulations**").

ARTICLE 2.

DEFINITION OF THE OFFICIAL PARTICIPANTS

1. For the purposes of these Special Regulations and other Special Regulations, the Official Participants are all foreign nations that have agreed to accept the invitation from the Government of the Republic of Kazakhstan ("**the Host State**") to participate in the Exhibition ("**the Official Participants**").
2. The international organisations aiming at promoting international cooperation in the field of science, economy, culture or Future Energy as the Exhibition Theme, can also be the Official Participants, provided that they accept the invitation from the Host State.

ARTICLE 3.

DEFINITION OF THE UNOFFICIAL PARTICIPANTS

The Unofficial Participants are individuals and legal entities who have received the permission from the Joint Stock Company "National Company" Astana EXPO 2017 ("the Organiser") to participate in the Exhibition and are not part of any National Section of the respective Official Participants ("the Unofficial Participants").

ARTICLE 4.

COMPLIANCE WITH RULES AND REGULATIONS

The Official and Unofficial Participants must observe the General Regulations and special rules of the Exhibition, as well as the legislation of the Republic of Kazakhstan.

ARTICLE 5.

EXHIBITS AND OBJECTS

1. All the expositions must comply with the provisions of the Special Regulations No. 1 to the extent of defining the Exhibition Theme and the ways for the Organiser and Participants to develop it ("**the Special Regulations No. 1**") and must be approved by the Organiser. Any disputes arising are settled in accordance with Article 10 of the General Regulations.
2. All exhibits and materials must comply with the terms of Special Regulations No. 1, Special Regulations No. 4 on construction, improvements and fire safety ("**the Special Regulations No. 4**") and Special Regulations No. 5 on installation and operation of machinery, devices and equipment of all kinds ("**the Special Regulations No. 5**").
3. Materials or objects that are dangerous or harmful to humans, animals or the environment or pose threat to public health and undermine public order, including explosives, firearms and poisons, cannot be admitted to the Exhibition Site under any circumstances, as established by the legislation of the Republic of Kazakhstan.

CHAPTER II.

THE OFFICIAL PARTICIPANTS

ARTICLE 6.

PARTICIPATION CONTRACT

1. The Official Participants wishing to participate in the Exhibition must sign a Participation Contract. The Participation Contract is signed by the National Section Commissioner, the Organiser and the Exhibition Commissioner.
2. In case of commercial activities carried out in their pavilions, the Official Participants must abide by Articles 19 and 20 of the General Regulations and the Special Regulation No. 9 on the conditions under which the Official Participants may operate restaurants or carry out sales. The data on such business is to be included in the Participation Contract as an annex signed together with the Contract.
3. The Participation Contract is attached with plans and documents regarding the pavilion, in particular, those specified in Special Regulations No. 4 and Special Regulations No. 5. These documents also need to be signed.

ARTICLE 7.

ALLOCATION OF SPACE IN THE EXHIBITION PAVILIONS

1. The Organiser provides the Official Participants with separate space for designing their national pavilions under Article 1 of the General Regulations and Special Regulations No. 1.
2. The space in the Exhibition pavilions is provided to the Official Participants free of charge.

ARTICLE 8

ALLOCATION OF PREMISES

1. The Official Participants must send an official request to the Organiser for allocation of indoor space in the existing buildings. The request is made by means of an application and documents containing the Participant's proposed Theme in accordance with Article 6 of Special Regulations No. 1 and, if necessary, all the supporting documents concerning the characteristics, the content and the surface area of the exhibit.
2. The Organiser gives written reply to the request within 30 calendar days from the date of its receipt. If the Organiser comes to conclusion that the Official Participant's application does not contain the information required for the development of the Exhibition Theme or it is inadmissible, the Organiser shall inform the Official Participant in writing about the reasons for refusal. In this case the changes to the application need to be agreed with the National Section Commissioner.
3. The Organiser considers an application for participation and the date of invitation acceptance at the same time when making the decision on whether to provide space. The Participation Contract contains information about space allocation, which is preliminary to signing of the Participation Contract.

4. In order to ensure the success of the Exhibition and harmonious design of the Exhibition Site, prior to signing the Participation Contract, the Organiser may modify the site layout and distribution of the Exhibition space, which does not entail any liability on the part of the Organiser.

ARTICLE 9.

PROVISION OF PREMISES AND WORK PERFORMANCE PERIOD

1. The premises on the Exhibition Site are transferred to the Official Participants no later than 2 January 2017. Import of the exhibits is allowed from 3 April 2017.
2. Internal or external modifications and final preparations must be completed prior to 8 May 2017.
3. Design and installation of the exhibits must be completed before 26 May 2017. The Exhibition Commissioner may request the Official Participants to submit their official exhibits during the campaign before the official opening of the Exhibition.
4. Participants must vacate the Exhibition premises and bring them to their original state no later than 15 December 2017.

ARTICLE 10.

SERVICES PROVIDED BY THE ORGANISER

1. During the Exhibition, the Organiser provides the Official Participants with the following services:
 - Gas supply;
 - Power supply;
 - Telecommunications;
 - Water supply and sewerage;
 - Garbage collection;
 - Water supply for air conditioning systems;

- Removal of waste from the pavilions;
- Security protection of the pavilions;
- Other services at the discretion of the Organiser.

Charges for these services will be borne by the Official Participants at the official rates applicable in Astana.

2. The Official Participants must comply with Special Regulations No. 4 and Special Regulation No. 10 on the provision of common services. They must also observe the legislation of the Republic of Kazakhstan which governs the services listed in the previous paragraph.

3. The Organiser must provide the Official Participants with a list of organisations offering the following services:

- Maintenance and cleaning;
- Security systems installation;
- Firefighting equipment installation;
- Security services;
- Architectural and civil engineering services;
- Exhibition stands design;
- Landscaping and gardening;
- Guides for the pavilions;

- Miscellaneous services requested by the Official Participants and agreed with the Organiser.

4. The Organiser provides the following services free of charge:

- Primary health care;
- Cleaning and maintenance of public areas;
- Information service for visitors;
- Removal of waste from public areas;
- Help centre for searching lost people;
- Lost and Found Office;
- Symbols and information;
- Security and surveillance outside the pavilions;
- Fire safety;
- Outdoor lighting;
- Sanitary and drinking water;
- Public telephones.

**ARTICLE 11.
USING EXHIBITION SYMBOLS**

National Section Commissioners may use symbols that are directly related to the Exhibition exclusively for non-commercial purposes after concluding the Participation Contract with the Organiser and after obtaining a permit from the Exhibition Commissioner. This is an inalienable right of use.

CHAPTER III.

THE UNOFFICIAL PARTICIPANTS

**ARTICLE 12
INVITATIONS AND PARTICIPATION
REQUEST FORM**

1. The Organiser can invite individuals and legal entities to participate in the Exhibition as the Unofficial Participants. If the invitation is accepted, the said persons must submit a formal participation request to the Organiser.
2. The request must contain all the necessary documents concerning the characteristics, the content and the surface area of the exhibit. The request

is made by means of an application and documents containing the Participant's proposed Theme in accordance with Special Regulations No. 1.

3. The Organiser informs the Commissioner of the state of origin of the Unofficial Participant about the intention of the said Unofficial Participant to participate and gets the approval from the Commissioner.

4. The Organiser is obliged to respond to the Unofficial Participant's request within 30 calendar days after the receipt thereof. If Organiser comes to conclusion that the Unofficial Participant's request does not contain

the aspects required for the development of the Exhibition Theme or is inadmissible, the Organiser shall inform the Unofficial Participant in writing about the reasons for refusal and propose ways to address them.

ARTICLE 13.

APPOINTMENT OF THE DIRECTOR

1. The Unofficial Participants designate the Director who represents them officially in all matters related to participation in the Exhibition.
2. The Director is responsible for the preparation and participation of the Unofficial Participant and coordinates the Unofficial Participant's staff in order to ensure compliance with regulations and legislation referred to in Article 4 of these Special Regulations No. 2.

ARTICLE 14.

PARTICIPATION CONTRACT

1. Conditions of participation for the Unofficial Participants are specified in the Participation Contract signed by the Director of the Unofficial Participants and the Organiser.
2. The Unofficial Participants cannot have more rights and privileges than those granted to the Official Participants.

ARTICLE 15.

ALLOCATION OF PREMISES

The Unofficial Participants are accommodated separately from the Official Participants.



SPECIAL REGULATION №3 THE RULES FOR THE FUNCTIONING OF THE STEERING COMMITTEE OF THE COLLEGE OF COMMISSIONERS

ARTICLE 1. PURPOSE

The purpose of this Special Regulation is, in accordance with articles 7, 10 and 34 of the General Regulations of the International Recognized Exposition EXPO - 2017 in Astana, (hereinafter referred to as "**the Exhibition**"), to specify the rules for the functioning of the Steering Committee of the College of Commissioners (hereinafter referred to as "**the Steering Committee**").

ARTICLE 2. THE FUNCTIONS OF THE STEERING COMMITTEE

1. The Steering Committee shall address issues of common interest to all Official Participants arising in the course of the Exhibition and ensure that the General Regulations and Special Regulations of the Exhibition are applied correctly.
2. The Steering Committee shall arbitrate when disputes arise between Official Participants, or between any Official Participant and the Organizer of the Exhibition (hereinafter referred to as "**the Organizer**"), in accordance with article 10 of the General Regulations.
3. If necessary the Steering Committee shall act in a consultative role to the Commissioner of the Exhibition within its competence.

ARTICLE 3. COMPOSITION OF THE STEERING COMMITTEE

1. Members of the Steering Committee shall be elected amongst the Commissioners of Section of the Member States of the Bureau International des Exposition (hereinafter referred to as "**the BIE**"), participating in the Exhibition.
2. Members of the Steering Committee shall attend the meetings of the Steering Committee, be actively involved in the Exhibition and be present regularly at the Exhibition site.

ARTICLE 4. CHAIRPERSON AND DEPUTY CHAIRPERSONS OF THE STEERING COMMITTEE

1. The President of the College of Commissioners shall also be the Chairperson of the Steering Committee.
2. The Chairperson of the Steering Committee and one or more Deputy Chairperson(s) of the Steering Committee shall be elected from among its members through a simple majority vote.
3. In the event of the Chairperson's absence, his/ her functions shall be performed by one of the Deputy Chairpersons.

**ARTICLE 5.
TECHNICAL ASSISTANCE TO THE
STEERING COMMITTEE**

1. The BIE shall appoint one Technical Adviser in agreement with the Organizer, who shall not be a citizen of the Republic of Kazakhstan.
2. The functions of the Technical Adviser shall be to advise the Steering Committee on matters relating to BIE regulations, to establish the agenda for meetings, to prepare the minutes of meetings, copies of which shall be submitted to the BIE, and to ensure follow-up of issues arising at meetings of the Steering Committee.
3. The Technical Adviser shall be present at all meetings of the Steering Committee, but shall not have the right to vote.

**ARTICLE 6.
FREQUENCY OF MEETINGS**

1. Regular meetings of the Steering Committee shall be held every six months from the date of the establishment of the Steering Committee until the official opening of the Exhibition and thereafter shall take place every month.
2. Extraordinary meetings of the Steering Committee may be called by the Chairperson, at the initiative of the Commissioner of the Exhibition or at the request of one third of the members of the Steering Committee.

**ARTICLE 7.
SUPPORT SERVICES FOR THE STEERING
COMMITTEE**

The Organizer shall provide, at its own cost, and with the supervision of the Commissioner of the Exhibition, the following services, amongst others, necessary for assisting the Steering Committee in exercising its functions:

- 1) provision of interpretation equipment and interpretation and translation services into English and French as the

- BIE official languages for the Steering Committee meetings;
- 2) assistance with office and administrative arrangements for the Steering Committee and the Technical Adviser;
 - 3) provision of a Liaison Officer by the Organizer to ensure efficient communication with the BIE.

**ARTICLE 8.
ATTENDANCE AT THE MEETINGS**

Only members of the Steering Committee and the Technical Adviser may take part in the Steering Committee meetings. The Secretary General of the BIE may also attend the meetings. Each member of the Steering Committee may be accompanied by one adviser, who shall not have any vote or voice during the meetings.

**ARTICLE 9.
TRANSFER OF A MANDATE**

In case of absence, a member of the Steering Committee may yield his/ her mandate to another member in writing, on the basis of which the latter will represent the former.

**ARTICLE 10.
QUORUM AND DECISIONS**

1. The deliberations of the Steering Committee shall only be valid if at least half of the members of the Steering Committee are present or represented.
2. Decisions shall be made by simple majority vote of the members present or represented. In case of an equal number of votes, the Chairperson shall have the casting vote.

**ARTICLE 11.
ACTIVITIES REPORT**

After the closure of the Exhibition, the Steering Committee shall prepare a report on its activities, which it shall submit to the College of Commissioners, the BIE, and the Organizer.



SPECIAL REGULATION №5 THE RULES CONCERNING THE INSTALLATION AND OPERATION OF MACHINES, APPARATUS AND EQUIPMENT OF ALL TYPES

ARTICLE 1. PURPOSE

The purpose of this Special Regulation is, in accordance with articles 16 and 34 of the General Regulations of EXPO 2017 International Recognized Exhibition (hereinafter referred to as **“the Exhibition”**) to specify requirements for the installation and operation of machines, apparatus and equipment of all types (hereinafter referred to as **“Equipment”**), that are to be used in the Exhibition with the exception of machines and construction equipment used in the construction and installation of pavilions and exhibits.

ARTICLE 2. COMPLIANCE WITH THE LAWS AND REGULATIONS

Participants shall comply with the Convention relating to International Exhibitions signed in Paris on November 22, 1928, as supplemented and amended, the General Regulations and Special Regulations of the Exhibition, the relevant legislation of the Republic of Kazakhstan, and the supplementary guidelines and instructions issued by the Organizer of the Exhibition, which shall be in accordance with the General Regulations and the Special Regulations (hereinafter referred to as **“the Laws and Regulations”**).

ARTICLE 3. RESPONSIBILITY OF THE ORGANIZER

The Organizer of the Exhibition (hereinafter referred to as **“the Organizer”**) shall assume no responsibility for any loss or damage resulting from failure to comply with the Laws and Regulations applicable to the use of Equipment and their operation by the Participants.

ARTICLE 4. INSTALLATION OF EQUIPMENT

1. Participants shall ensure that the design, manufacture and installation of Equipment shall be carried out in an appropriate and safe manner in accordance with the requirements of the Laws and Regulations.
2. Participants shall ensure that the Equipment does not transmit any vibrations or impact to the building structure and affect other Participants' welfare.

ARTICLE 5. OPERATION OF EQUIPMENT

1. Participants shall operate Equipment in a safe manner.
2. Participants who intend to operate the Equipment must submit to the Organizer beforehand a statement with the detailed description of such Equipment, as well as other documentation required by the Organizer.

3. The Organizer may request the Participant concerned to run technical inspections or tests on such Equipment, carried out as deemed necessary. The said Participant must abide by the directives given in such cases concerning the machinery and equipment to be used in the Exhibition.

ARTICLE 6. SAFETY MEASURES

1. Participants are responsible for the safety of the Equipment and its operation, notwithstanding its installation by third parties.
2. Participants shall at all times, when operating the Equipment, ensure the safety of general visitors and of the persons operating the Equipment, and shall take all necessary measures to protect and prevent damage to the exhibits, buildings and surrounding facilities.
3. All Equipment shall be installed at a sufficient distance from passages and exhibits so as not to hinder the movement of persons or threaten the safety of general visitors. Participants shall, whenever necessary, install barriers and take any other protective measures as required.
4. Participants shall, with regard to heat, flashes, sparks, dust, noise, vibrations, offensive odors, electromagnetic waves, air and water pollution, soil contamination, waste, etc., resulting from the use of Equipment, take all measures necessary to avoid possible harm to the Organizer, other Participants and general visitors.
5. Participants shall furthermore implement measures to promote environmental conservation. The Organizer may make suggestions to participants regarding measures for the protection of the environment.
6. Participants shall ensure that operators of Equipment have received technical training.
7. Participants shall, when installing and operating Equipment that requires

qualifications for such operation or installation, do so in accordance with the Laws and Regulations, and appoint duly qualified persons to carry out such duties. Participants shall submit information of the said duly qualified persons to the Organizer.

8. Official Participants may not operate in their pavilions Equipment which does not conform to the safety requirements.

ARTICLE 7. TECHNICAL INSPECTION OF EQUIPMENT

The Organizer may issue Participants with appropriate directives on matters such as the inspection of Equipment. Participants shall abide by the directives given in such cases.

ARTICLE 8. DANGEROUS SUBSTANCES

Participants shall carry out appropriate safety measures to prevent any hazards or accidents arising from the use of dangerous substances, fuel - lubricants, high-pressure gas, and other inflammable, combustible or explosive substances during Equipment installation and operation.

ARTICLE 9. FIRE PREVENTION

1. Participants shall, in order to prevent any possible explosions or fires, ensure that fire extinguishers and other specialized fire extinguishing equipment are conveniently placed.
2. Participants shall designate an officer from among their staff who shall be responsible for fire prevention and for organizing the appropriate fire safety preparation.

ARTICLE 10.
DIRECTIVES BY THE ORGANIZER

1. Participants shall comply with instructions issued by the Organizer, with regard to their Equipment, in the event of a possible threat to the safety of other Participants or visitors.
2. In case of non-compliance with the instructions of the Organizer as specified in the preceding paragraph, the Organizer may take the necessary measures to correct the situation by restricting or suspending the activity of the Participant, and instructing the Participant to remove the said Equipment.

ARTICLE 11.
EMERGENCIES

1. Participants shall prepare and provide the Organizer with an emergency plan for the operation of Equipment. In case of any accident or other emergency, Participants shall carry out the emergency plan and report the accident or emergency situation to the Organizer immediately.
2. Participants shall, in case of a major accident, fire or explosion, in addition to carrying out emergency procedures, immediately report the accident to the Organizer. Participants shall follow the directions given in such cases and assist the authorities in any way.



SPECIAL REGULATION № 6 THE ACCOMMODATION FACILITIES FOR THE PERSONNEL OF THE OFFICIAL FOREIGN NATIONAL SECTIONS

ARTICLE 1. PURPOSE

The purpose of this Special Regulation, in accordance with articles 9 and 34 of the General Regulations of the EXPO 2017 International Recognized Exhibition in Astana (hereinafter referred to as **“the Exhibition”**), is to specify the arrangements necessary for the accommodation of staff of Official Participants of the Exhibition (hereinafter referred to as **“the Official Participants”**).

ARTICLE 2. COMPLIANCE WITH LAW AND REGULATIONS

Official participants shall comply with the Convention relating to International Exhibitions signed in Paris on November 22, 1928, as supplemented and amended, the General Regulations and Special Regulations of the Exhibition, the relevant legislation of the Republic of Kazakhstan, and the supplementary directives and instructions issued by the Organizer of the Exhibition, which shall be in accordance with the General Regulations and the Special Regulations (hereinafter referred to as **“Laws and Regulations”**).

ARTICLE 3. ASSISTANCE PROVIDED TO THE OFFICIAL PARTICIPANTS REGARDING ACCOMMODATION

Astana EXPO-2017 National Company Joint Stock Company (hereinafter referred to as **“the Organizer”**) shall provide assistance and necessary information to the Official Participants in relation to accommodation for the Commissioners of Section, Deputy Commissioners of Section, Pavilion Directors and staff of Official Participants.

ARTICLE 4. ACCOMMODATION FOR OFFICIAL PARTICIPANTS

1. The Organizer shall build the EXPO-Town in the proximity of the Exhibition site to provide accommodation to Official Participants.
2. The accommodation in the EXPO-Town provided by the Organizer will be completely furnished and technologically equipped.
3. The Organizer will provide the following services: cleaning of apartments, laundry, dry-cleaning, telecommunications, security of the EXPO-Town and other facilities for the convenience of the personnel of Official Participants. The cost of these services will be determined by the Organizer at the level of the average market prices in Astana.

ARTICLE 5.
RESERVATION OF ACCOMMODATION FOR THE STAFF

1. The Organizer will prepare an accommodation guide for Official Participants setting out the booking procedure, accommodation rates, accommodation services and also the list of services specified in point 3 of Article 4 of this Special Regulation. The Official Participant's accommodation guide shall also describe the different types of accommodation in the EXPO-Town, their location, and the facilities provided depending on the type and conditions of the tenancy agreement.
2. Official Participants wishing to apply for accommodation should submit a written application to the Organizer, using the form specified by the latter, at least six months before the expected date of accommodation in the EXPO-Town, and no later than January 2, 2017.

The Organizer must confirm the accommodation booking within 30 days of receiving the written application. The Organizer has the right to request additional information within 15 days of receiving the application.

3. The tenancy agreement must be signed between the Organizer and the Official Participant within two months after the accommodation booking has been confirmed by the Organizer.

ARTICLE 6.
OTHER TYPES OF ACCOMMODATION

1. Official Participants, who will not use the accommodation services provided in the EXPO-Town by the Organizer, are entitled to receive assistance and information from the Organizer concerning accommodation and residence in other districts of the city.
2. Official Participants may make their own arrangements for accommodation without the assistance of the Organizer. In such cases, the tenancy agreement will be concluded between the two parties concerned, the Official Participant and the other party providing the accommodation. In this case, the Organizer is not responsible for the conditions of accommodation and residence of the Official Participant who has selected this type of accommodation.



SPECIAL REGULATION № 9 THE CONDITIONS UNDER WHICH OFFICIAL PARTICIPANTS MAY OPERATE RESTAURANTS OR CARRY OUT SALES

CHAPTER 1:

GENERAL PROVISIONS

ARTICLE 1.

PURPOSE

The purpose of this Special Regulation is, in accordance with articles 19, 20, 21, 22, 23, 24 and 34 of the General Regulations of the EXPO 2017 International Recognized Exhibition in Astana (hereinafter referred to as "the Exhibition") to specify the necessary requirements for the commercial activities of Official Participants in the Exhibition site.

ARTICLE 2.

COMPLIANCE WITH THE LAWS AND REGULATIONS

1. Official Participants shall comply with the Convention relating to International Exhibitions signed in Paris on November 22, 1928, as supplemented and amended, the General Regulations and the Special Regulations of the Exhibition, with the relevant legislation of the Republic of Kazakhstan and supplementary guidelines and instructions approved by the organizer of the EXPO 2017 International Recognized Exhibition in Astana (hereinafter referred to as "the Laws and Regulations").

2. The supplementary guidelines or instructions issued by the Organizer of the EXPO 2017 International Recognized Exhibition in Astana (hereinafter referred to as "the Organizer") shall be in accordance

with the General Regulations and the Special Regulations.

3. Official Participants shall ensure that persons and entities involved in commercial activities observe the Laws and Regulations and the provisions of the Participation Contract in the Exhibition site.

4. The space used for commercial activities and open to visitors, shall not exceed 20% of the total covered exhibition space allocated by the Organizer of the EXPO 2017 International Recognized Exhibition in Astana (hereinafter referred to as the Organizer), to the Official Participant, in accordance with article 19 of the General Regulations.

5. All the commercial activities regarding restaurants and sales of goods covered in Article 6 herein shall be carried out only within the areas authorised by the Organizer.

6. The Organizer may, when any of the commercial activities of an Official Participant violates the Laws and Regulations, direct the Official Participant concerned to cease said activities. The Official Participant shall abide by the directives given in such case. The Organizer shall assume no responsibility whatsoever for any damage or loss relating to and resulting from the violation of the Laws and Regulations by the Official Participants.

**ARTICLE 3.
COMPLIANCE WITH THE EXHIBITION
THEME**

Commercial activities should strive to reflect cultural, social and historical features of Official Participants and to correspond to the following principles:

- a) maintenance of sustainable and ecological development;
- b) commitment to reduce pollution;
- c) encouragement of development of "green" technologies;
- d) promotion of the development of energy-efficient systems;
- e) promotion of healthy lifestyle.

**ARTICLE 4.
DEFINITION OF COMMERCIAL ACTIVITIES**

1. Commercial activities refer to the operation of restaurants and (or) the sale of goods by Official Participants. All commercial activities of Official Participants have to be coordinated with the Organizer.
2. Official Participants may open restaurants in which the national food of their country will be principally served. The restaurants of Official Participants may fall in one of the following categories:
 - a) restaurants with table service;
 - b) fast food restaurant;
 - c) cafeterias/bars;
 - d) confectionery, delicacies and drinks.
3. Official Participants may sell goods that are generally representative of their countries.

CHAPTER 2:

AUTHORIZATION OF COMMERCIAL ACTIVITIES

**ARTICLE 5.
RESPONSIBILITIES OF THE
COMMISSIONER OF SECTION**

1. In accordance with Article 19 of the General Regulations, commercial activities in the national sections fall under the responsibility of the corresponding Commissioner of Section.
2. In case of transfer of the rights to operate commercial activities to third parties, the Commissioner of Section shall inform the Organizer and shall remain directly responsible for acts of the said third parties.

**ARTICLE 6.
COORDINATION OF COMMERCIAL
ACTIVITIES**

1. Official Participants wishing to establish the restaurants mentioned in Article 4.2

must receive the approval of the Organizer with regard to types of food to be sold as well as to the restaurant type, location, area, style, capacity and management method. Any subsequent changes to the above items shall necessitate a written approval thereof by the Organizer.

2. Official Participants may sell photographs, slides, postcards, sound and video recordings, films, CDs, DVDs or other electronic media, books, and stamps from their countries or related to their international organizations. Official Participants may also sell a limited number of goods, which are representative of their country or their international organization.

3. Official Participants wishing to sell the goods mentioned in the preceding paragraph must receive the approval of the Organizer with regard to the types and quantities of goods to be sold as well as to the shop location, area, size, and management method (including electronic transactions). Any subsequent changes to the above items shall necessitate approval thereof by the Organizer. However, the limited number of goods that are representative of their country or their international organization may be substituted for other goods during the Exhibition period, and in each case, only with the prior approval of the Organizer.
4. All the commercial activities regarding restaurants and sales of goods covered in Article 4 herein shall be carried out only within the areas authorised by the Organizer.

ARTICLE 7. ROYALTIES

1. Official Participants shall pay to the Organizer royalties arising from their commercial activities according to the conditions determined in the Participation Contract. The Commissioner of Section or his representative shall be responsible for the payment of royalties to the Organizer.
2. The Commissioner of Section can delegate the act of payment of royalties to the restaurant and shop operators. Notwithstanding the Commissioner of Section's overall responsibility for the payment of royalties, the royalty money can be collected and subsequently transferred to the Organizer directly by the Official Participant's restaurant and shop operators.
3. The royalties mentioned in the preceding paragraph shall be calculated as a percentage of gross revenue (excluding tax) and shall be paid monthly and by a separately specified method based on the following categories of commercial activities:
 - a) restaurants with table service - 3%;
 - b) fast food restaurants, cafeterias/bars - 6%;
 - c) confectionery, delicacies and drinks - 8%;
 - d) shops - 8%.
4. Official Participants may set up a restaurant for the exclusive use of their own personnel. Such a restaurant shall not be subject to the payment of royalties to the Organizer.

ARTICLE 8. THE ACCOUNTING SYSTEM OF COMMERCIAL ACTIVITIES

1. The Organizer shall create a Financial Bureau for Official Participants in the Exhibition site or in the vicinity of the Exhibition site. Official Participants may contact the Financial Bureau for any issues relating to commercial activities.
2. Official Participants must record and on a weekly basis report sales income as shall be determined by the Organizer. Official Participants shall ensure the accuracy and completeness of the accounting documents.
3. Official Participants may use consulting companies for accounting purposes and for communication with the tax authorities of the Republic of Kazakhstan. The Organizer shall provide Official Participants with a list of recommended consulting companies in this regard.
4. The Organizer may require that the Official Participants provide detailed reports on revenues derived from commercial activities, and perform any necessary audits during operating hours to confirm the income of those commercial activities.
5. In order to have a uniform accounting system and monitor commercial activities, Official Participants undertake to accept payments using cash registers/ point-of-sale (POS) terminals of a type specified by the Organizer.

6. The Organizer shall provide Official Participants with a list of cash registers/ POS terminals which conform to the requirements of the legislation of the Republic of Kazakhstan.
7. Official Participants may accept payments made in cash, by credit cards or cheques.

ARTICLE 9. SALES OF EXHIBITED OBJECTS

1. Official Participants may sell objects and items exhibited in the national sections and materials used for the installation of presentations, provided that they do so in accordance with the Laws and Regulations and that these articles will only be made available after the closure of the Exhibition. Such transactions will not be deemed as commercial activities subject to the royalties determined in Article 7 herein.
2. In the case specified in paragraph 1 of this article, the Official Participant loses the right to the benefits associated with the regime of the special customs procedure stipulated in Special Regulation No. 7 concerning the regulations governing customs and handling, and any particular rates and charges. The objects and items will therefore be subject to the relevant rules of taxation and customs regulations of the Republic of Kazakhstan.

ARTICLE 10. SPECIAL EVENTS

1. Official Participants may organize shows, special events, presentations or meetings (hereinafter referred to as "**special events**") in accordance with Article 23 of the General Regulations.
2. Official Participants who wish to organize special events within the Exhibition site shall, at least three months prior to the Exhibition, present the plans to the Organizer, including the date, time,

duration, location requested and other details. The Organizer may define additional criteria for special events.

3. No admission fees shall be charged for events within the Exhibition site. However this stipulation may be waived with the approval of the BIE.
4. Official Participants may, with the prior approval of the Organizer hold music, dance, and other performances in their pavilions. In such cases, Official Participants shall not require visitors to pay an entrance or any other fee for the said performances.
5. The Organizer shall be entitled to make audio-video recordings of these events for non-commercial purposes.

ARTICLE 11. DISTRIBUTION OF PRODUCT AND FOOD SAMPLES

1. Under the provisions of article 22 of the General Regulations, product and food samples that may be distributed free of charge by Official Participants to visitors within their own sections shall be representative of their respective countries and have received final processing within their country or have been produced by machines, apparatus or equipment exhibited in the Exhibition by the Official Participant concerned.
2. Official Participants who intend to distribute free product and food samples shall submit to the Organizer for approval an application, including a list of items to be distributed, their quantity, time and place of distribution and the method of labeling the samples.
3. Official Participants must comply with the sanitary and epidemiological requirements in accordance with the Laws and Regulations when producing or distributing food samples.

4. The Organizer may add specific criteria where necessary for approval and may withdraw approval when the distribution of samples by an Official Participant is judged to be in violation of the

conditions mentioned in the three preceding paragraphs or to be inappropriate to either the order or the overall harmony of the Exhibition.

CHAPTER 3:

OPERATION OF COMMERCIAL ACTIVITIES

ARTICLE 12. BUSINESS HOURS

1. The business hours for commercial activities shall be determined by the Organizer and shall be prescribed in the Special Regulation № 13 concerning the Regulations governing admissions to the site, taking into account the opening hours of the Exhibition as well as each sales category and area. The business hours for zones of commercial activity of Official Participants can be prolonged in preliminary coordination with the Organizer.
2. Official Participants may not suspend commercial activities during the business hours referred to in the preceding paragraph without prior approval from the Organizer.
3. The Organizer may, when necessitated by the operational needs of the Exhibition, direct a change in the business hours for commercial activities of Official Participants referred to in paragraph 1 of this article. Official Participants shall abide by the directives given in such case.
4. Official Participants may not use the changes in business hours referred in paragraph 3 of this article as a reason for claiming compensation for damages from the Organizer.

ARTICLE 13. PRICES AND CURRENCY

1. Official Participants shall display clearly to visitors, the prices of the goods and services they offer in the areas where they carry out commercial activities.

2. The Kazakhstan tenge (KZT), the currency of the Republic of Kazakhstan, shall be used in all commercial activities carried out within the Exhibition site.

ARTICLE 14. MANAGEMENT OF COMMERCIAL PERSONNEL

1. Official Participants shall notify the Organizer of the following:
 - a) surname, name, middle name (hereinafter referred to as "the full name") and contact information of the persons in charge of the commercial activities;
 - b) the full names and contact information of persons carrying out the commercial activities;
 - c) any other information stipulated by the Organizer.
2. Official Participants shall notify the Organizer, without delay, of any changes concerning the details mentioned in each of the items in the preceding paragraph.
3. The Organizer may, in case when any of the personnel violates the Laws and Regulations, or in case of improper behavior within the Exhibition site, direct the Official Participant to remove such personnel from the Exhibition site or forbid them to carry out any commercial activities therein. The Official Participant concerned shall abide by the directives given in such case.

ARTICLE 15.
TRANSPORT OF GOODS

Official Participants shall, when transporting goods, materials, equipment and other items related to commercial activities to the Exhibition site, observe and be guided by the requirements of the Special Regulation № 7 concerning the regulations governing customs and handling, and any particular rates and charges and Special Regulation № 13 concerning the regulations governing admissions to the site and other requirements of the Organizer.

ARTICLE 16.
PROHIBITING THE SALE OF GOODS THAT VIOLATE INTELLECTUAL PROPERTY RIGHTS

1. Official Participants may not offer for sale goods or services that violate intellectual property rights or other related rights defined in Special Regulation № 11 concerning protection of patent rights and copyrights.
2. The Organizer shall not be held responsible for violations by Official Participants of intellectual property rights.

ARTICLE 17.
EXCLUSIVE COMMERCIAL RIGHTS FOR THE SALE OF GOODS OR SERVICES

1. If the Organizer should grant certain suppliers exclusive commercial rights for the sale of goods or services, these rights should not interfere with the commercial activities of Official Participants within their national sections.
2. The Organizer must, when granting such rights, observe the principle of non-discrimination between national and foreign companies; avoid all risk of an imbalance between the quantity and nature of such rights and the possible number of visitors to the Exhibition and avoid excessive commercialization which would deviate from the purpose of an

international exhibition as established by the Bureau International des Expositions.

ARTICLE 18.
USE OF EXHIBITION SYMBOLS

Official Participants may not use the names, images, logos, emblems, mascots or other symbols relating to the Exhibition or the Organizer in their commercial activities without obtaining the prior approval of the Organizer.

ARTICLE 19.
PUBLICITY

1. Official Participants can place signs, posters, announcements and other printed material (hereinafter referred to as “**advertisements**”) within their exhibition spaces and their pavilions. The said advertisements shall conform to the advertising standards determined by the Organizer.
2. Official Participants shall submit for approval to the Organizer the design projects related to the said advertisements.
3. Placement of any printed material outside the exhibition space or pavilion of an Official Participant is subject to the preliminary approval of the Organizer. The Commissioner of the Exhibition may request Official Participants to remove any signs or printed material whose placement was not approved by the Organizer.
4. Official Participants may not place advertisements for their sponsors outside their stands or pavilions including on the external elevation of the buildings and constructions.
5. Brochures and leaflets may only be distributed within the national sections of Official Participants.
6. Any publicity relating to special events, celebrations, etc. within the Exhibition site, has to be authorized by the Organizer. Any advertising using sound effects is prohibited.

7. Official Participants may not use the names of foreign countries, cities, regions, or any names similar to them in their advertisements.
8. The Organizer may, if deemed necessary to maintain the order, safety, and overall harmony of the Exhibition, direct the removal, modification, or the suspension of distribution of advertisements. The Official Participant concerned shall abide by the directives given in such cases.

ARTICLE 20.

INSPECTION OF COMMERCIAL ACTIVITIES

1. The Organizer may send persons with authority to the areas where commercial activities are carried out to undertake on-site inspections of the business premises of Official Participants to ascertain whether the provisions of the Participation Contract are being respected and confirm the conditions of commercial activities.
2. The Organizer may, based on the result of the on-site inspection mentioned in the preceding paragraph, direct the Official Participant concerned to carry out any correction or improvement measures as deemed necessary. The Official Participant concerned shall abide by the directives given in such cases.

ARTICLE 21.

SANITATION AND HYGIENE

1. Official Participants shall follow the provisions of public health and hygiene specified in Special Regulation № 10 concerning the Provision of general services when conducting commercial activities.
2. The Organizer may carry out inspections of commercial activities, in conjunction with the appropriate government authorities of the Republic of Kazakhstan, to confirm the observance of sanitary and epidemiological requirements in accordance with the Laws and Regulations.
3. The procedure for inspections of commercial activities of Official Participants shall be defined separately by the Organizer.

ARTICLE 22.

ENVIRONMENTAL PROTECTION

1. Official Participants shall take all necessary measures to protect the environment of the Exhibition site against any damage or pollution when conducting commercial activities.
2. Official Participants may provide visitors with information concerning the environmental requirements with regards to the goods and services offered.
3. Official Participants shall minimize damage to the environment as much as possible when carrying out music, dance and other performances in the areas allocated for commercial activities.

CHAPTER 4:

COMMERCIAL FACILITIES

ARTICLE 23.

PREPARATION FOR COMMERCIAL ACTIVITIES

Official Participants shall, at their own expense and responsibility, carry out design and construction of the areas for their commercial activities and the installation of

equipment thereupon in accordance with Special Regulation № 4 concerning construction or improvements, and fire protection and Special Regulation № 5 concerning the installation and operation of machines, apparatus and equipment of all types and other requirements specified by the Organizer.

ARTICLE 24.
MAINTENANCE OF COMMERCIAL FACILITIES

1. Official Participants shall pay due attention to maintaining their commercial facilities in good order and shall bear all costs thereof.
2. For security purposes the Organizer may direct Official Participants to effect repairs on the facilities located in the area where commercial activities are carried out. The Official Participant

concerned shall bear the expense of such repairs.

3. Official Participants shall, when carrying out repairs on concessions facilities under the provisions in the preceding paragraph, comply with the directives of the Organizer in regard to the date and time for the completion of such repairs.
4. Any improvements or repairs on commercial facilities must be approved by and coordinated with the Organizer.



SPECIAL REGULATION №10 PROVISION OF GENERAL SERVICES: HEALTH AND HYGIENE; SURVEILLANCE AND SECURITY; SUPPLY OF WATER, ELECTRICITY, HEATING; TELECOMMUNICATIONS

Special Regulation №10

Provision of general services:

- health and hygiene
- surveillance and security
- supply of water, electricity, heating, air-conditioning, etc.
- telecommunications

CHAPTER 1:

GENERAL PROVISIONS

ARTICLE 1.

PURPOSE

The purpose of this Special Regulation is, in accordance with articles 15, 28 and 34 of the General Regulations of the EXPO 2017 International Recognized Exhibition in Astana (hereinafter referred to as "**the Exhibition**") to specify the requirements for the following services provided at the Exhibition:

- 1) public health and hygiene;
- 2) security and safety;
- 3) supply of water, electricity, heating, air conditioning;
- 4) telecommunication services.

ARTICLE 2.

COMPLIANCE WITH LAWS AND REGULATIONS

1. Official Participants shall comply with the Convention relating to International Exhibitions signed in Paris on November 22, 1928, as supplemented and amended, the Agreement between the Government of the Republic of Kazakhstan and the Bureau International des Expositions on Privileges and Advantages for Official Participants related to the EXPO 2017 International Recognized Exhibition in Astana, the General Regulations and Special Regulations of the Exhibition and the relevant legislation of the Republic of Kazakhstan as well as supplementary guidelines and instructions approved by the Organizer of the Exhibition (hereinafter referred to as "the Laws and Regulations").

2. The Organizer of the Exhibition (hereinafter referred to as “**the Organizer**”) may stipulate separate supplementary guidelines or instructions, provided that these are in accordance with the General Regulations and Special Regulations.

ARTICLE 3. CORRECTIVE AND COMPENSATIONAL MEASURES

1. The Organizer may, in a case where an Official Participant violates or fails to comply with the Laws and Regulations, require the Participant to take corrective measures or take other necessary dispositions to correct the situation.
2. Official Participants shall take the corrective measures pursuant to the preceding paragraph at their own expense and responsibility and by the deadline specified by the Organizer.
3. The Organizer shall assume no responsibility for any loss or damage resulting from the violation of the Laws and Regulations or for failing to comply with paragraph 2 of this article.

ARTICLE 4. INSPECTION BY THE ORGANIZER

1. In order to check and inspect on the status of compliance with the Laws and Regulations, the Organizer may send an authorized person to the pavilions of Official Participants. Official Participants shall provide access to their pavilions to this person.
2. The person carrying out an inspection on behalf of the Organizer shall present an authorized identification document proving his right to conduct an inspection.
3. The Organizer may require the Official Participant concerned to take any corrective measures that it deems necessary as a result of the inspection mentioned in paragraph 1 of this article. The Official Participant shall abide by such directives.

ARTICLE 5. ENVIRONMENTAL CONSERVATION

1. Official Participants shall take necessary measures to conserve the environment with regard to the use of water, electricity, heating and air conditioning.
2. Official Participants shall make rational use of electricity and water resources.
3. The Organizer may require compliance with regard to measures for promoting environmental conservation.

CHAPTER 2:

PUBLIC HEALTH AND HYGIENE

ARTICLE 6. MAINTENANCE OF HYGIENE AND CLEANLINESS

1. The Organizer shall ensure that the Exhibition site and its facilities are maintained clean and hygienic at all times.
2. Official Participants shall, in regard to their allocated spaces and facilities take necessary measures to maintain proper functioning of ventilation, natural illumination, technical illumination,

lighting, moisture proofing, deodorization, noise and vibration, and keep their pavilions in a clean and hygienic condition.

3. For the maintenance of hygiene and cleanliness, the Official Participants may request the Organizer to provide such services or conclude a contract with a third party. In case the Organizer provides these services on behalf of the Official Participant, the expense thereof shall be borne by the Official Participant concerned.

4. Official Participants shall maintain the facilities for water, and electricity supply, as well as heating and air conditioning systems within their pavilions in a clean hygienic condition, and in an operable condition at all times.

**ARTICLE 7.
DISPOSAL OF WASTE**

1. Official Participants shall dispose of waste in compliance with the methods defined by the Organizer.
2. Official Participants shall not store or dispose of waste in the Exhibition site in other areas than those designated by the Organizer.
3. If the Organizer provides waste disposal services to the Official Participant, the expense thereof shall be borne by the Official Participant based on the size of its pavilion, as well as the nature of its commercial activities.
4. The Organizer will prepare and provide Official Participants with Guidelines for waste disposal and garbage removal.

**ARTICLE 8.
FOOD HYGIENE SUPERVISION**

1. Official Participants shall, when carrying out commercial activities involving the handling of food and beverages, comply with the Laws and Regulations applicable to food safety and hygiene.
2. The Organizer in conjunction with the relevant sanitary and epidemiological surveillance services shall supervise food hygiene in the pavilions of Official Participants.
3. In the event of a food poisoning or any other food safety accident, the Official Participant concerned must notify the Organizer immediately and take the necessary measures in coordination with the Organizer.

**ARTICLE 9.
PERSONNEL HEALTH CARE**

Official Participants shall pay due attention and be responsible for the sanitation and health conditions of their personnel.

**ARTICLE 10.
EMERGENCY MEDICAL CARE**

The Organizer shall provide medical aid stations for first aid (including ambulances) at the Exhibition site.

CHAPTER 3:

SECURITY AND SAFETY

**ARTICLE 11.
RESPONSIBILITIES OF THE ORGANIZER**

1. The Organizer shall create a Security and Safety Center to ensure security and safety at the Exhibition site.
2. The Security and Safety Center shall in cooperation with authorized government bodies of the Republic of Kazakhstan carry out the following tasks:

- 1) prevention of, and response to, terrorism and crime;

- 2) prevention of emergency situations and actions in case of their occurrence;
- 3) prevention of the violations of the Laws and Regulations;
- 4) coordination and liaison with the law-enforcement authorities and special services, as well as with the private security companies employed by the Official Participants and other relevant organizations;

- 5) protection of life, physical safety, personal property, as well as the maintenance of public order within the Exhibition site.
 3. The Organizer shall establish a common surveillance system to ensure order and safety and to prevent violations of the Laws and Regulations. Official Participants may install separate monitoring systems in their pavilions.
 4. The Organizer shall arrange special security measures during visits of high-ranking officials of the Republic of Kazakhstan and other States.
 5. The Organizer shall provide the necessary support and advice on safety issues to the security officer of each Official Participant mentioned in paragraph 2 of article 12 of this Special Regulation.
 6. The Organizer shall establish an evacuation plan of the Exhibition site, which it shall provide to all Official Participants for emergency situations along with instructions regarding fire safety measures.
 7. All employees of the Organizer ensuring the security and safety at the Exhibition site shall, while on duty, wear special uniforms and equipment determined by the Organizer, as well as identifications badges displayed visibly.
 8. If required by operational and security needs, the Organizer may apply additional security measures within the Exhibition site.
- 1) the development of a security plan for the Official Participant's pavilion in consultation with the Organizer;
 - 2) coordination and liaison with the Security and Safety Center;
 - 3) participation in the security and safety education and training programs conducted by the Organizer.
 4. The security officer shall, in case of an emergency occurring in the pavilion for which he is responsible, immediately take the necessary emergency measures and report to the Security and Safety Center and follow its directives.
 5. Official Participants must develop an evacuation plan in case of fire or other emergency situations as well as guidelines on fire prevention as a part of the Exhibition project of its exhibition pavilion, in consultation with the Organizer. The evacuation plan must be displayed visibly within the Official Participant's pavilion.

The Organizer shall provide Official Participants with information regarding the Exhibition project requirements.

6. The Official Participant shall ensure that its personnel is well acquainted with the safety measures as well as the evacuation plan in the event of fire or other emergencies.

**ARTICLE 12.
RESPONSIBILITIES OF OFFICIAL PARTICIPANTS**

1. Official Participants shall maintain order and ensure safety within their pavilions at their own expense and responsibility.
2. Each Official Participant shall appoint a security officer for its pavilion and shall inform the Organizer of his name and contact information.
3. The security officer shall be responsible for:

**ARTICLE 13.
PREVENTION OF FIRE**

1. An Official Participant planning to use electric devices, including heat-generating devices within its pavilion shall take the necessary measures to prevent fires in accordance with the Laws and Regulations.
2. The Organizer shall prepare and provide Official Participants with guidelines concerning the necessary measures for fire prevention. The Organizer shall provide these guidelines to Official Participants by November 2, 2015.

ARTICLE 14.
LOST AND FOUND SERVICE

1. The Organizer shall create and operate a Lost and Found Service that shall cater to lost people and children and handle lost and found items, within the Exhibition site.
2. Official Participants shall cooperate with the Lost and Found Service.

ARTICLE 15.
MAINTAINING ORDER WITHIN THE EXHIBITION SITE

The Organizer may, for the purpose of maintaining security and order within the Exhibition site develop rules, which shall be in accordance with the General Regulations and Special Regulations. Official Participants shall comply with such rules.

CHAPTER 4.

SUPPLY OF WATER, ELECTRICITY, HEATING, AIR CONDITIONING

ARTICLE 16.
INSTALLATION OF UTILITY SYSTEMS

1. The Organizer shall install the necessary distribution networks for water supply and drainage, heating, air conditioning, and power supply (hereinafter referred to as "**supply and disposal facilities**") to the international pavilions. The supply and disposal facilities installed by the Organizer shall be ready for use at the date of handing over the pavilion to the Official Participants at the latest.
2. Official Participants who wish to connect to the supply and disposal facilities shall coordinate with the Organizer and provide the documents specified in paragraph 3, article 8 of the Special Regulation No. 4 "The rules for construction or improvements, and fire protection."

ARTICLE 17.
SERVICE AGREEMENT

1. The Official Participants who wish to use water supply and other services shall enter into an agreement with the Organizer or the service provider, appointed by the Organizer (hereinafter referred to as "the Provider"), on the

provision of such services (hereinafter referred to as the "service agreement").

2. When entering into the service agreement pursuant to the preceding paragraph, Official Participants shall fill out an application form specifying the estimated maximum demand for each service, and submit it to the Organizer.
3. In the event that two or more Official Participants are to jointly use supply and disposal facilities, a representative of the said Official Participants shall sign the shared service agreement.
4. Official Participants shall, when desiring early termination of the service agreement, notify the Organizer in advance.

ARTICLE 18.
DETERMINATION OF SERVICE DEMAND

The Organizer/Provider shall, after consultation with the Official Participant, determine the contracted quantity of the provided service, based on the estimated demand referred to in paragraph 2 of article 17 of this Special Regulation.

ARTICLE 19.
SERVICE FEES

The service fees shall be in accordance with the local rates.

ARTICLE 20.
INSTALLATION OF USAGE METERS

1. The Organizer/Provider shall install usage meters in the Official Participants' respective supply facilities to measure the usage of each of the services supplied. Official Participants shall cover the cost of purchase and installation of the meters.
2. Usage meters of power supply and water supply have to be installed individually for each Official Participant.
3. In the event that it is impossible to determine the exact consumption due to a meter failure or for other reasons, the Organizer/Provider is entitled, in consultation with the Official Participant concerned, to decide on the appropriate quantity used based on the quantity used in the previous month or on the actual quantity used after a replacement meter is installed.
4. In cases of failure of usage meters, Official Participants shall promptly notify the Organizer/Provider.
5. Meters for the heating, ventilation and air conditioning systems shall be installed by the Organizer/Provider in the International Pavilion. Consumption costs shall be distributed among Official Participants based on the surface area of their respective pavilions.

ARTICLE 21.
PAYMENT OF SERVICE FEES

1. The Organizer/Provider shall read the usage meter on a fixed date each month and issue the bills to Official Participants accordingly.
2. Official Participants shall pay monthly the bills issued by the Organizer/Provider in accordance with the service agreement.

3. The Official Participants must also undertake to pay the fees for late payment or security deposit owed, if such are stipulated in the service agreement.

ARTICLE 22.
MAINTENANCE OF SERVICE FACILITIES

1. Official Participants shall, at their own expense, carry out routine maintenance and inspection of service facilities within their pavilions in coordination with the Organizer.
2. Official Participants shall, if they detect any malfunction or problems in the service facilities within their pavilions, immediately discontinue the use of the affected equipment and notify the Provider or the Organizer.
3. Official Participants shall not install alternative service facilities, modify or repair existing facilities within their pavilions without the approval of the Organizer.
4. Official Participants may use one of the companies recommended by the Organizer for the maintenance of their services facilities.

ARTICLE 23.
SPECIAL FACILITIES

1. Official Participants may request the Organizer/Provider to provide or install any special equipment or apparatus (hereinafter referred to as "special facilities")
2. In this case, the Organizer or the Provider in coordination with the Organizer, may provide these special facilities if it considers that they are technically feasible.
3. The costs incurred by the provision, setting up and management of such special facilities shall be borne by the Official Participant concerned.

**ARTICLE 24.
SUSPENSION, DISCONTINUANCE OR
LIMITATION OF SERVICES**

1. The Organizer/Provider may suspend water supply and other services to an Official Participant in the following cases:

- 1) when an Official Participant fails to pay its bills by the due date and then does not pay by the designated date after receiving a reminder from the Organizer;
- 2) when an Official Participant refuses or hinders, without justifiable reason, the inspections stipulated in article 4 of this Special Regulation;
- 3) when an Official Participant makes or attempts to make improper use of service facilities;
- 4) when an Official Participant, in addition to the items stipulated above, infringes the Laws and Regulations or any provisions in the service agreement.

2. The Organizer has the right to discontinue or limit water supply and other services to the Official Participant in the following cases:

- 1) natural disasters or other situations of force majeure;
- 2) when the failure or signs of malfunction are detected in supply and disposal facilities within the exhibition pavilions of Official Participants;
- 3) when service and external disposal facilities require repair or other works;
- 4) when necessary for safety and security reasons.

In such cases, with the exception of natural disasters or situations of force majeure, the Organizer shall give prior notice to the Official Participant of the date and scope of such discontinuance or limitation of the provision of services.

3. The Organizer shall not be responsible for any damages or losses sustained by the Official Participant as a result of the suspension, discontinuance or limitation

of services, stipulated in subparagraphs 1, 2 and 4 of paragraph 2 of this article.

**ARTICLE 25.
WATER SUPPLY SERVICES**

1. The Organizer shall install external water supply mains and valves extending up to the boundary of each of the allocated spaces and facilities in the international pavilions.
2. The quality of water should be in accordance with the sanitary and epidemiological requirements set forth in the legislation of the Republic of Kazakhstan.
3. Official Participants shall, in coordination with the Organizer/Provider, and at their own expense and responsibility, install water supply equipment other than the external, pipes and valves, including internal piping, and other water supply equipment in the spaces allocated to them.

**ARTICLE 26.
WATER DISPOSAL SYSTEM**

1. The Organizer shall install drainage systems extending up to the boundary of each of the allocated spaces and facilities in the international pavilions.
2. Official Participants shall, at their own expense and responsibility, install drainage facilities other than external installations, including internal piping and other equipment in the spaces allocated to them.

**ARTICLE 27.
AIR CONDITIONING SERVICES**

1. The Organizer shall install an individual air conditioning system in each one of the allocated spaces and facilities.
2. Official Participants may request the Organizer to change the location of air conditioning in their pavilions or install an additional unit. In this case, the Official Participant concerned shall bear the expenses incurred.

ARTICLE 28.
POWER SUPPLY SYSTEM

1. The Organizer shall install the external power supply system extending up to the boundary of each pavilion.
2. The power supply parameters shall be as follows:
 - 1) Frequency: 50 Hz;
 - 2) Three phase, 380 V voltage;
 - 3) Power: 1 KW per 10 sq.m.

In individual cases, when it is necessary for the effective operation of their pavilions, Official Participants may request an increase of power to a maximum of 3 KW per 10 sq.m.

3. Official Participants shall, at their own expense and responsibility, install electricity supply equipment other than the external distribution equipment, in the spaces allocated to them.

ARTICLE 29.
HEATING SUPPLY SYSTEM

1. The Organizer shall install heating systems in the pavilions of Official Participants and in the buildings where their pavilions are located.
2. The central heating system shall start functioning after the date of handover of the pavilions to Official Participants and be effective until heating is no longer necessary.

CHAPTER 5:

TELECOMMUNICATIONS SERVICES

ARTICLE 30.
SUPPLY OF TELECOMMUNICATION SERVICES

1. Telecommunication services including telephone, internet and satellite communications (hereinafter referred to as "telecommunications services") shall be supplied by the service providers designated by the Organizer (hereinafter referred to as "the telecommunications service providers").
2. The Organizer shall provide the necessary assistance to Official Participants for signing up for telecommunication services with the telecommunication service providers.

ARTICLE 31.
TELECOMMUNICATIONS SERVICE AGREEMENT

1. Official Participants shall enter into a service contract with the telecommunications service provider in order to be provided with such services.

2. The telecommunications service fees shall be equivalent to the average local rates.

ARTICLE 32.
TELECOMMUNICATIONS SYSTEMS

1. The Organizer shall install wiring devices and connecting devices extending up to the boundary of the pavilions of Official Participants.
2. Official Participants shall, at their own expense and responsibility, install telecommunications service facilities and equipment other than external installations, including internal piping and wiring and other facilities in the spaces allocated to them.

**ARTICLE 33.
RADIO STATION**

Official Participants may install and use a radio station, with the prior approval of the Organizer.

**ARTICLE 34.
SPECIAL TELECOMMUNICATIONS
EQUIPMENT**

With the approval of the Organizer, and in accordance with the Exhibition project, Official Participants may set up special telecommunications facilities or equipment at their own expense and responsibility.

**ARTICLE 35.
PREVENTION AND ELIMINATION OF
ELECTROMAGNETIC INTERFERENCE, ETC.**

1. Official Participants shall take care to ensure that the telecommunications equipment including wireless or other equipment does not impede the functions of the equipment or facilities of the Organizer or other Official Participants.
2. Official Participants can configure wireless and fixed telecommunication equipment only on sites determined by the Organizer.
3. When using the wireless network provided by the telecommunication service providers, Official Participants shall use it in accordance with the volume of traffic and speed assigned by the telecommunication service providers. In case the specified traffic volume is exceeded, the Official Participant shall be surcharged in accordance with the telecommunications service agreement.

**ARTICLE 36.
TECHNICAL STANDARDS, ETC.**

1. The telecommunications service providers shall inform Official Participants of the technical standards and conditions related to telecommunications services in accordance with the instructions established by the Organizer.
2. Official Participants shall comply with the technical standard requirements and conditions stipulated in paragraph 1 of this article.



PARTICIPATION CONTRACT

Participation contract

[OFFICIAL NAME OF THE PARTICIPANT, represented by Mr. [NAME AND TITLE], Section Commissioner ("**the Section Commissioner**"), acting on the basis of [indicate the document authorizing the Commissioner], ("**the PARTICIPANT**"), on the one side, and JSC "National Company" Astana EXPO 2017", represented by [NAME AND TITLE] ("**the Organiser**"), and

Zhoshybayev Rapol Seytkhanovich, the Exhibition Commissioner, representing the Government of the Republic of Kazakhstan, on the other side,

the aforementioned parties hereinafter collectively referred to as the Parties and separately as the Party,

have entered into this Participation Contract ("**the Contract**") as follows:

CHAPTER I

GENERAL PROVISIONS

ARTICLE 1

The purpose of this Contract is to define the conditions for participation of [OFFICIAL NAME OF PARTICIPANT] in the International Recognised Exhibition EXPO 2017 Astana ("**the Exhibition**").

The General and Special Regulations ("**the Exhibition Regulations**"), which have been approved by the Bureau of International Exhibitions ("**the BIE**") or will be approved by the BIE in the future, are an integral part of this Contract and shall be binding upon the Parties.

The Parties recognize the authority of the Exhibition Commissioner under the Convention relating to International Exhibitions of 22 November 1928 ("**the Convention**") and the Exhibition Regulations, in particular, Article 5 of the General Regulations.

To the extent not regulated by the Convention, the rules of the BIE and the Exhibition Regulations and not contradicting them, the Participant undertakes to comply with the legislation of the Republic of Kazakhstan.

CHAPTER II -

THE PARTICIPANT'S EXHIBITION AREA

ARTICLE 2

The Organiser provides the premises of _____ (area) specified in the Annex 2 to the Contract ("**the Premises**") to the Participant for temporary use and possession on a free of charge basis, and the Participant accepts the premises.

The Premises are provided for temporary use and possession of the Participant no later than [2 January 2017].

The structure and condition of the indoor and outdoor spaces, which are in temporary possession and use by the Participant, are established by the Special Regulations No. 4 referred to in Article 34 of the General Regulations.

The Participant is responsible for the equipment, maintenance and cleaning of the premises during its temporary possession and use.

ARTICLE 3

The Organiser provides the Participant with services specified in the Special Regulations No. 10 referred to in Article 34 of the General Regulations, at the rates and under the conditions established by these Special Regulations.

ARTICLE 4

The Organiser informs the Participant of the provisions of the legislation of the Republic of Kazakhstan applicable to the Participant in connection with their participation in the Exhibition; the information is placed on the Organiser's website.

At the request of the Organiser, the Participant provides all necessary information, in particular, the number and profession of the Participant's staff which will arrive in the Republic of Kazakhstan for preparation and participation in the Exhibition, as well as goods and vehicles that are imported to the Republic of Kazakhstan for the purpose of the Exhibition.

This information exchange is an element of mutual assistance aimed at success of the Exhibition as a whole and each National Section separately.

The Parties shall consider the entire scope of the information that is exchanged under this Contract as confidential, unless its transmission or disclosure (i) is required by law, (ii) is carried out by the Parties for public authorities of their respective States or for legal, financial advisors or accounting consultants of the Parties.

ARTICLE 5

The Participant is solely responsible for the selection and placement of exhibitors in the National Sections and for the choice of persons who will carry out activities under this Section.

The Participant ensures that its own staff as well as the persons mentioned in the first paragraph of this Article, their consultants and agents comply with this Contract, Exhibition Regulations and guidance provided by the Organisers as part of its authority.

The Organiser undertakes to enter into relationship with the persons referred to in the first and second paragraphs of this Article, only through the Section Commissioner representing the Participant.

ARTICLE 6

The Participant shall:

Provide access to its Premises for visitors during the working days and hours of the Exhibition.

Provide the Organiser with a possibility to install, maintain and repair all the equipment and the interior trim within the Premises, as may be required for the proper functioning of the Exhibition.

Return the provided Premises, including all indoor and outdoor areas, no later than 15 December 2017.

In case the Participant fails to perform its obligations specified in the first paragraph of this Article, the Exhibition Commissioner shall be entitled to exercise the rights of the Organiser in accordance with Article 18 of the General Regulations.

ARTICLE 7

The Exhibition Commissioner, the Organiser, the Participants and their exhibitors mutually waive claims that they may have against each other as a result of significant damage caused by fire or other emergencies, except for fraud and / or intentional breach of obligations and / or gross negligence of the other Party.

This waiver of claims automatically comes in force with respect to each Section Commissioner on the date of this Contract. All contracts, which insure movable or immovable property belonging to persons referred to in the first paragraph of this Article and are concluded in the form of a contract for expansion of insurance coverage for a group insurance contract or as a separate insurance contract, shall contain this waiver provision.

CHAPTER III

PARTICIPANT'S BUSINESS ACTIVITY

ARTICLE 8

Participants may carry out commercial activities on the territory of the Premises in accordance with Special Regulations No. 9.

The Participants' business activity is an integral part of all commercial activities of the Exhibition that is regulated and coordinated by the Organiser.

Commercial activity of the Participants refers to the management of food court areas and (or) sale of goods. The area of the food court and (or) sale of goods by the Participants shall not exceed 20% of the total allocated Exhibition area.

In the food court areas of the Participants, the primary focus shall be on their national cuisine. The Participant's food court includes the following types:

- a. A restaurant;
- b. Fast-food restaurant (fast food);
- c. Cafeteria / Bar;
- d. Place of sales of confectionery products, gourmet food and beverages.

Participants may sell exhibition items to visitors, including photographs, slides and postcards, and other audio and visual material of media, as well as books and stamps related to their country or organisation.

Participants, who intend to sell goods, must agree with the Organiser on the types and the number of products sold, the location, area and size of the point of sale, as well as the procedure for organising their sales.

Any change in relation to the sale of goods and services shall be agreed with the Organiser.

ARTICLE 9

Participants shall pay charges to the Organiser in the exercise of commercial activities. The Section Commissioner or its authorized person is responsible for control over the full and timely payment of these charges to the Organiser.

A charge paid in the exercise of commercial activities is calculated as a percentage of gross profit (excluding tax) in the following amounts:

- a. for restaurants - 3%;
- b. for fast food restaurants (fast food), cafeteria / bar - 6%;
- c. for the places of sales of confectionery products, gourmet food and drinks - 8%;
- d. for areas of sales of goods - 8%.

The Organiser does not charge rent for the area available to the Participants for the purposes of commercial activities.

Participants may arrange a food court exclusively for their own staff without paying any fees to the Organiser.

Participants must keep daily accounting of business activities. Participants must ensure the accuracy and completeness of accounting documents.

CHAPTER IV

THE PARTICIPANTS' BENEFITS

Article 10

The benefits and privileges granted to the Section Commissioner are set forth in Special regulations No. 12.

Article 11

The Exhibition Commissioner and the Organiser provide assistance to the Participant's staff, hired by the Participant in connection with the Exhibition, on issues related to visas, registration and employment of foreign labour in the Republic of Kazakhstan.

The Organiser must ensure that the Participant's staff are provided with the following:

- housing;
- health services;
- benefits provided to family members of the Participant's staff.

These benefits are provided in the manner prescribed by special regulations referred to in Article 34 of the General Regulations.

Article 12

The Exhibition Commissioner and the Organiser coordinate the activities of the relevant state authorities and organisations of the Republic of Kazakhstan to ensure the success of the Exhibition, in particular, in relation to the following issues:

providing facilities which are required for customs clearance of goods and vehicles for the purposes of the Exhibition in the most convenient locations;

facilitating import of goods and vehicles by the Participant for the purposes of the Exhibition to the customs territory of the Republic of Kazakhstan;

if necessary, providing relief in the import quota regime on goods sold on in the Participant's Facility, including its restaurant;

providing the list of customs representatives accredited by the Organiser to provide customs clearance services in relation to goods and vehicles on behalf of the Participant for a certain fee. However, the Participant is not obligated to use the services of these customs representatives.

Article 13

The Organiser provides the Participant with a list of organisations that render transportation, handling, packaging, shipping and receiving services, supply goods and execute works approved by the Organiser. These organisations undertake to cooperate with the Participant under fair market conditions. However, the Participant is not obligated to use the services of these organisations.

The Exhibition Commissioner and the Organiser will cooperate with the transport companies to agree the best possible conditions for the Participants. Transport, shipping and receiving, handling and packaging services should meet the requirements of Special Regulations No. 7 governing these activities.

Article 14

In case of a dispute between the Participant and the Organiser, the Parties agree to refer the dispute to the BIE, provided that the issue in question concerns the interpretation of the Convention or the rules of the BIE, Commissioners Panel or its Steering Committee on any other matters. Either Party may use dispute settlement mechanisms provided for in Article 10 of the General Regulations.

In requesting the settlement of debt in accordance with Article 18 of the General Regulations, the Organiser may not foreclose on the objects belonging to the Participant, if they are the property of a foreign state or national heritage in accordance with the laws of the participating state.

CHAPTER V

ENTRY INTO FORCE

Article 15

This Contract shall enter into force upon signing by the Parties and the Exhibition Commissioner.

In case the Contract is signed on different dates, it shall enter into force at a later date.

Article 16

Statements and / or notices in connection with this Contract shall be in writing and must be sent to:

[ADDRESSES OF THE PARTIES]

The above addresses may be modified with a notice to the other Party.

IN WITNESS WHEREOF, this Contract has been executed in two copies and signed by the Participant's and the Organiser's representative, one copy for each of the Parties.

FULL NAME: [_____]

Job title:

FULL NAME: [_____]

Job title:

The Participant's representative

Date: [_____]

Date: [_____]

The Exhibition Commissioner, acting in accordance with the principles of the Convention, the Exhibition Regulations and legislation of the Republic of Kazakhstan, guarantees the fulfilment of the Organiser's obligations under this Contract.

FULL NAME: **Zhoshybayev Rapol Seytkhanovich**

Job title: Exhibition Commissioner - First Deputy Minister of Foreign Affairs of the Republic of Kazakhstan

Date: [_____]

List of Annexes:

Annex 1. Confirmation of participation in the Exhibition

Annex 2. The Premises provided to the Participant

Annex 3. Theme Statement

Annex 4. Business activity

All annexes to the Contract are its integral part and will be attached to it as the Parties sign them.

Confirmation of participation in the Exhibition

PARTICIPANT	<i>(specify the country)</i>		
TYPE OF PREMISES (SINGLE/MULTIPLE OCCUPANCY) AND AREA (SQ. M)	<i>(specify the type of exhibition space and floor area)</i>		
CHOSEN SUB-THEME	<i>(specify the sub-theme selected in accordance with the Exhibition theme)</i>		
ADDITIONAL INFORMATION ON THE THEME AND PREMISES	<i>Specify the target audience, the exhibition plans and content (use additional pages for details)</i>		
SPECIAL REQUIREMENTS	<i>(specify the particular features of the Participant's premises)</i>		
SECTION COMMISSIONER ADDRESS		E-MAIL: ADDRESS:	
		TEL.:	
		FAX:	

ORGANISER	EXHIBITION COMMISSIONER	SECTION COMMISSIONER
FULL NAME: _____	FULL NAME: _____	FULL NAME: _____
Job title: _____	Job title: _____	Job title: _____
Date: _____	Date: _____	Date: _____

The Premises provided to the Participant

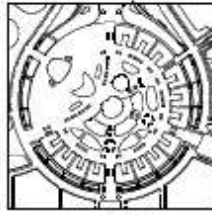
PARTICIPANT	<i>(specify the country)</i>
TYPE OF PREMISES	<p>INDIVIDUAL PAVILION</p> <p><input type="checkbox"/> MULTIPLE OCCUPANCY PAVILION</p> <p><i>(specify the type of Premises selected by the Participant)</i></p>
LOCATION ON THE EXPOSITION SITE	<i>(specify the Premises encoding, for example, C1.1 - 1 C1.1 - 2, etc.)</i>
AREA (SQ. M)	<p><i>(specify the area of the allocated Premises)</i></p> <p><i>*See Layout</i></p>

ORGANISER	EXHIBITION COMMISSIONER	SECTION COMMISSIONER
FULL NAME: _____	FULL NAME: _____	FULL NAME: _____
Job title: _____	Job title: _____	Job title: _____
Date: _____	Date: _____	Date: _____

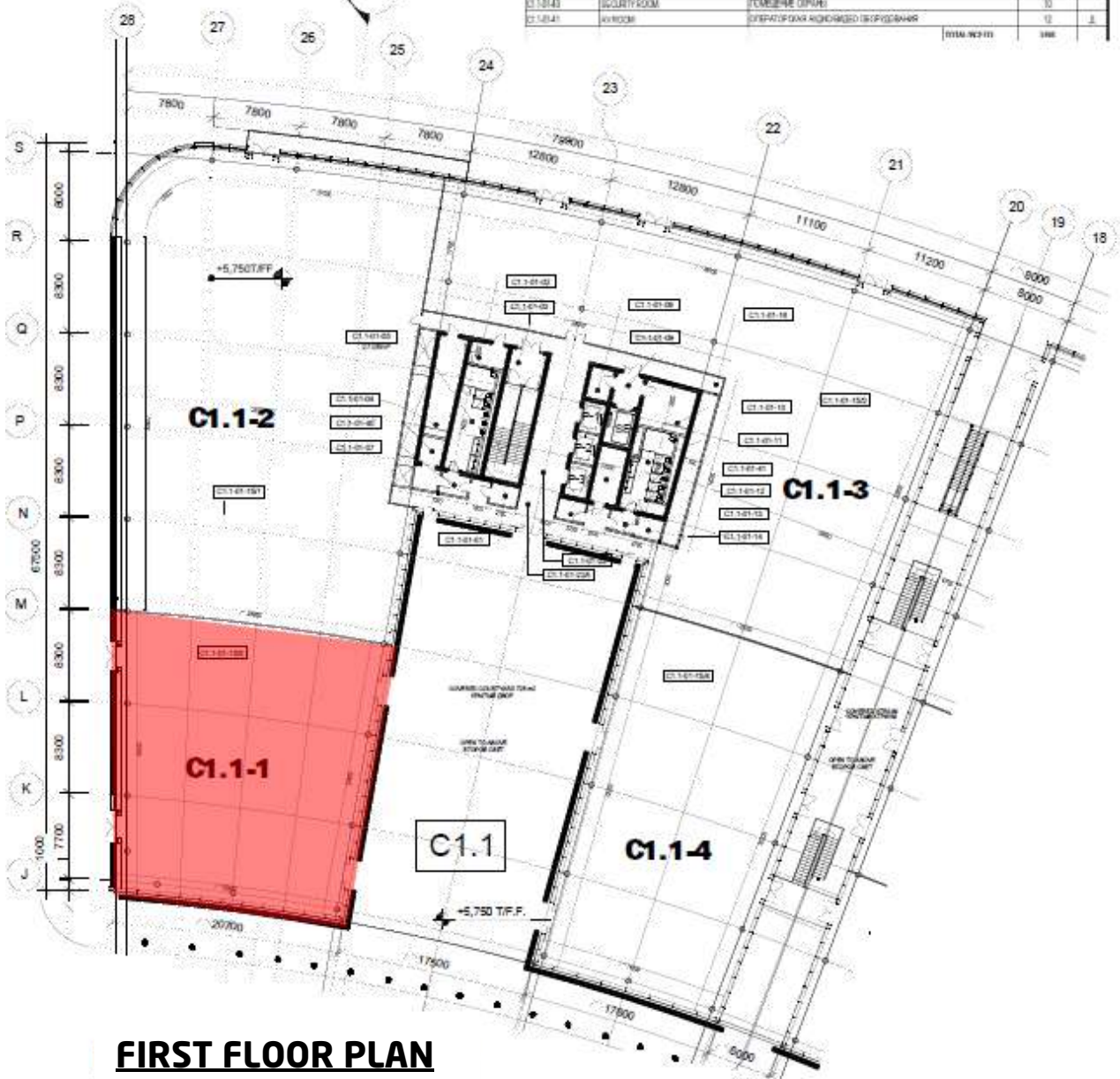
***PLAN Layout**

Participant's flag

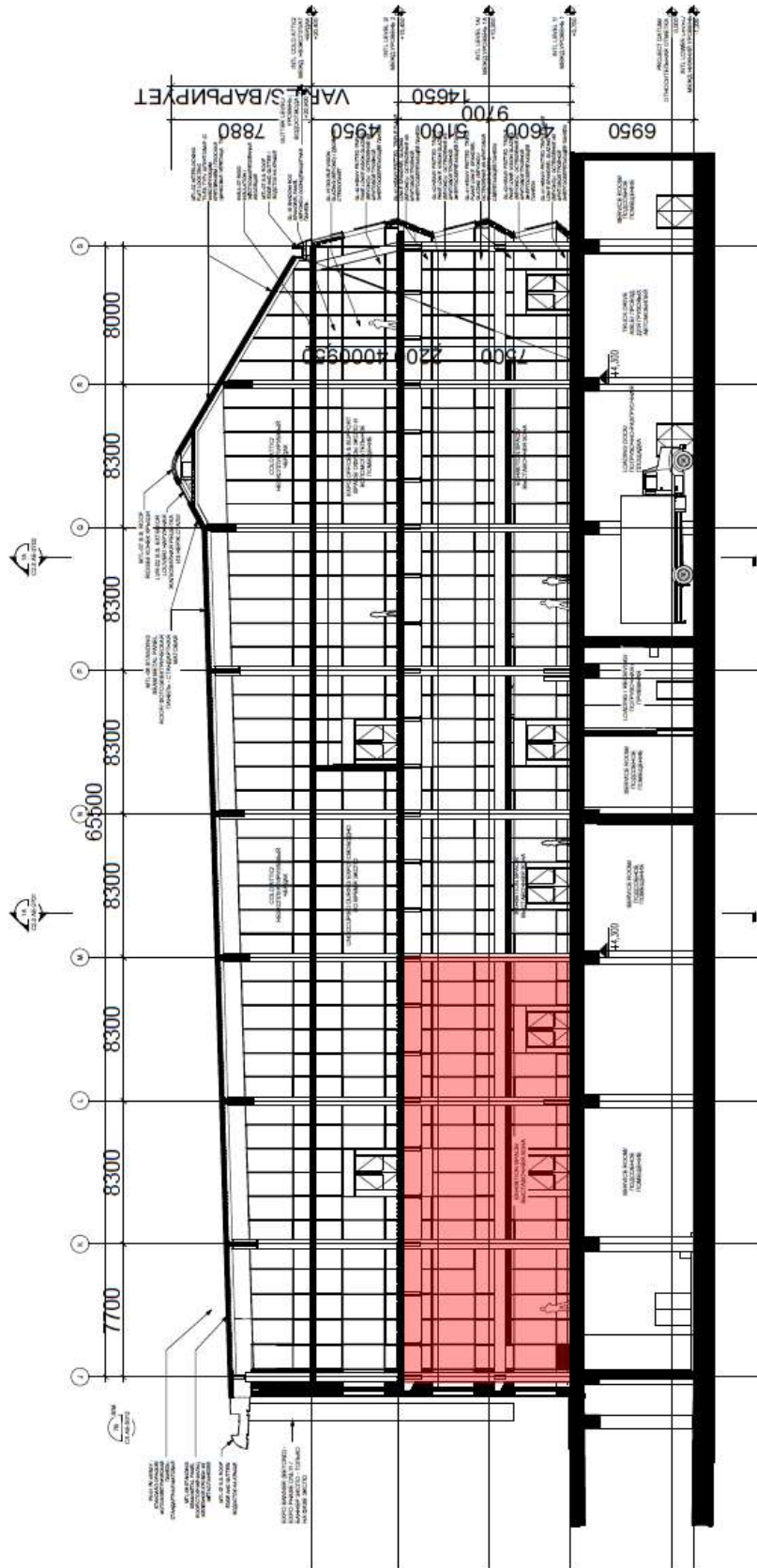
Participant name



ROOM NUMBER KODI OTOBA	ROOM NAME NOMI OTOBA	MARK ROOM	ROOM AREA / KODI OTOBA KODI OTOBA	ROOM CATEGORY KODI OTOBA
C1.1-01	JANITOR ROOM	TRADICIONALNO ODRZIVENJE	5	
C1.1-02	TELECOM ROOM	TRADICIONALNO ODRZIVENJE	7	1
C1.1-03	VESTIBULE	TRADICIONALNO ODRZIVENJE	10	
C1.1-04	RESTROOM	TRADICIONALNO ODRZIVENJE	21	1
C1.1-05	WASH TOILETS	TRADICIONALNO ODRZIVENJE	27	
C1.1-06	VESTIBULE	TRADICIONALNO ODRZIVENJE	5	
C1.1-08	STORAGE ROOM	TRADICIONALNO ODRZIVENJE	4	1
C1.1-09	VESTIBULE	TRADICIONALNO ODRZIVENJE	7	
C1.1-10	ELECTRIC ROOM	TRADICIONALNO ODRZIVENJE	18	1
C1.1-11	WOMEN'S TOILETS	TRADICIONALNO ODRZIVENJE	25	
C1.1-12	STORAGE ROOM	TRADICIONALNO ODRZIVENJE	5	1
C1.1-13	VESTIBULE	TRADICIONALNO ODRZIVENJE	4	
C1.1-14	TELECOM ROOM	TRADICIONALNO ODRZIVENJE	4	1
C1.1-15	EXHIBITION AREA	TRADICIONALNO ODRZIVENJE	114	
C1.1-16	EXHIBITION AREA	TRADICIONALNO ODRZIVENJE	92	
C1.1-17	EXHIBITION AREA	TRADICIONALNO ODRZIVENJE	92	
C1.1-18	EXHIBITION AREA	TRADICIONALNO ODRZIVENJE	82	
C1.1-19	CORRIDOR	TRADICIONALNO ODRZIVENJE	38	
C1.1-20	ELEVATOR LOBBY	TRADICIONALNO ODRZIVENJE	50	
C1.1-21	CORRIDOR	TRADICIONALNO ODRZIVENJE	43	
C1.1-22	SECURITY ROOM	TRADICIONALNO ODRZIVENJE	12	1
C1.1-23	STORAGE ROOM	TRADICIONALNO ODRZIVENJE	12	1



FIRST FLOOR PLAN



Theme Statement

The Organiser forms the theme of the Exhibition - Future Energy - and reviews the Theme Statements provided by the Participants on the basis of the Special regulations No. 1 and Thematic Guidelines.

The Organiser develops the Exhibition theme in the exhibition spaces and facilities such as theme pavilions, the national pavilion of the Republic of Kazakhstan, public areas, the Energy Best Practices Area, as well as cultural events, forums, conferences, seminars and workshops related to the theme of the Exhibition.

In order to reflect the selected sub-theme and develop the exhibition content, the Participant is offered the following exhibition areas:

- Exterior facade from the Exhibition Boulevard;
- Internal facade of the U-shaped pavilion;
- The Premises allocated to the Participant.

The structure of the Theme Statement shall be as follows:

- The official name of the pavilion;
- The selected sub-theme of the Exhibition;
- Description of the pavilion and each section, exhibition content, approach and key features, set design and technology content. It should be noted that the exhibition content shall be disclosed according to the plot or script for each section / zone in a chronological order;
- Preliminary description of the functionality (room capacity, visit length and overall organisational structure of the Premises);
- Any reference materials regarding the theme under development.

The Theme Statement shall be developed and presented to the Organiser within 30 days after signing the Contract or within the timeframe agreed upon by the Participant and the Organiser.

The Theme Statement shall be officially sent to the Organiser together with a cover letter from the Section Commissioner.

The Participant may provide the Theme Statement in any other format agreed upon with the Organiser.

ORGANISER	EXHIBITION COMMISSIONER	SECTION COMMISSIONER
FULL NAME: _____	FULL NAME: _____	FULL NAME: _____
Job title: _____	Job title: _____	Job title: _____
Date: _____	Date: _____	Date: _____

Commercial activity

PARTICIPANT	<i>(specify the country)</i>
LOCATION ON THE EXPOSITION SITE	
BUSINESS ACTIVITY TYPE	<input type="checkbox"/> FOOD COURT ZONE <input type="checkbox"/> <i>restaurant;</i> <input type="checkbox"/> <i>fast food restaurant;</i> <input type="checkbox"/> <i>cafeteria/bar</i> <input type="checkbox"/> SHOP

ORGANISER	EXHIBITION COMMISSIONER	SECTION COMMISSIONER
FULL NAME: _____	FULL NAME: _____	FULL NAME: _____
Job title: _____	Job title: _____	Job title: _____
Date: _____	Date: _____	Date: _____



THEMATIC GUIDELINES FOR THE DEVELOPMENT OF THE THEME "FUTURE ENERGY" OF THE EXPO 2017 INTERNATIONAL RECOGNISED EXHIBITION IN ASTANA

CONTENTS:

- 1. THE THEME - FUTURE ENERGY**
- 2. SUB-THEMES OF ASTANA EXPO 2017**
 - 2.1. REDUCING CO₂ EMISSIONS**
 - 2.2. LIVING ENERGY EFFICIENCY**
 - 2.3. ENERGY FOR ALL**
- 3. PRESENTATION OF THEMES BY PARTICIPANTS**
 - 3.1. DEFINITION OF THEME**
 - 3.2. OBJECTIVES**
 - 3.3. PERSPECTIVES**
 - 3.4. SOURCES OF ENERGY**
 - 3.5. THEME STATEMENT SUBMISSION**
 - 3.6. EXHIBITION PROJECT**
- 4. WORLD OF ASTANA EXPO 2017**
 - 4.1. EXHIBITION AREAS**
 - 4.2. THE VISITOR EXPERIENCE**
- 5. LEGACY**
 - 5.1. CHALLENGES FOR FUTURE ENERGY**
 - 5.2. 2017 AND BEYOND**
- ANNEX №1**
- ANNEX №2**

OF THE UNIVERSAL DECLARATION OF HUMAN RIGHTS ADOPTED BY THE GENERAL ASSEMBLY OF THE UNITED NATIONS ON 10TH DECEMBER 1948 READS:

'Everyone is entitled to all the rights and freedoms set forth in this Declaration, without distinction of any kind such as race, colour, sex, language, religion, political or other opinion, national or social origin, property, birth or other status. Furthermore, no distinction shall be made on the basis of the political, jurisdictional or international status of the country or territory to which a person belongs, whether it be independent, trust, non-self-governing or under any other limitation of sovereignty'.

The approach of Astana EXPO 2017 is to embrace such aspirations: to be open to all, with a welcome which will encourage the sharing and pooling of information and experience to address one of the greatest challenges faced by the world - Future Energy.

1. THE THEME - FUTURE ENERGY: SOLUTIONS FOR TACKLING MANKIND'S GREATEST CHALLENGE

In the second decade of the 21st century mankind is confronted by huge challenges. Feeding an expanding population, adjusting to changes in climate, the increasing moves from rural to urban environments and the complex migration patterns of people across the world - all these problems demand our attention. However, the overwhelming challenge of energy supply - its source, its effects, its impacts - affects and influences everything else.

The desirable outcome of an integrated global strategy is not likely to emerge in the near future. This does not preclude changes being made at all levels of society. Change can come in more subtle ways allowing experimentation, trying different options and learning from each other. Astana EXPO 2017 is an opportunity to start that dialogue.

Astana EXPO 2017 is positioned as a game changing event in seeking to ensure that future energy moves to the top of the global agenda, not only as a theoretical question but as a real opportunity to move forward in practical ways. There is a need for all the countries of the world to come together to build bridges to enable better communication of ideas and experience and to make an impression in an area which affects everyone's future and to give an impetus to all stakeholders to be creative and to take action.

The human race can see further into space than it ever has before, to marvel at the titanic cosmic forces that brought our world into being and catch glimpses of the vast energy that pulses through this galaxy and the millions of others. The Hubble telescope has brought us images of the almost incomprehensible complexity of these forces in all their grandeur and beauty, and emphasised the enormity of the power they represent. The energies involved in the creation of the universe are almost impossible for the mind to grasp and faced with the implacableness of infinity we should have great concerns for the protection of our world.

Our Earth is a small blue planet, powered by its relationship with its own complex star, the Sun, which reminds us every day of the evolving interaction of which we are part. The evolution of man, the harnessing of the elements fire, water, earth and air to begin to provide warmth, light, shelter and food which fuelled the inventive spirit producing ever more complicated technology to facilitate human existence. This upward spiral has moved at a

different pace throughout the planet with some nations embracing the benefits of the Industrial Revolution with exploitation of a wide variety of energy sources, whilst others had their progress inhibited by lack of resources. The uneven spread of such developments has implications for us today when energy consumption is perceived as bringing benefits to enable poorer nations to 'catch up'. Energy provision is still largely taken for granted without regard to the consequences. We have entered the Holocene Era when man is one of the factors influencing the environment so now we need to establish how we can make our use of energy resources more efficient and less damaging.

Our ancestors have left us messages from the past in many places. All over the world, from the earliest times, we have representations of man living in harmony with the environment, using energy as the source of being and function. Today energy is a precious and profitable commodity but with the vast population of the developing world creating more demand, we can no longer take it for granted that our main economic activities - manufacturing, transport, communications as well as all the everyday conveniences - will always be sustained and expanded without employing more innovative solutions.

Astana EXPO 2017 is the time to consider our relationship with energy in the broadest sense and understand it as a process meeting economic and social needs as well as those relating to cultural diversity and a healthy environment. Looking at Future Energy from a wide range of perspectives and offering a broad, thought provoking theme for addressing the challenges we face, and anticipating solutions to those challenges. The exploration of strategies, programmes and technologies aimed at sustainable energy development, the consideration of issues relating to energy security and efficiency and examination of the role of renewable energy will energise participants and visitors alike to involve themselves in this great campaign. The positive encouragement, at all levels, to embrace an active role in the execution of responsible and sustainable plans for future energy production will be part of Astana's legacy to the world.

Given the importance of the issues at stake and the need to produce effective responses Astana EXPO 2017 aims to emphasise the positive ambitions of nations, commercial interests, NGOs and individuals and to re-state its belief in the ability of mankind to rise to the challenge and ensure a better future.

UN Millennium Declaration Item IV. Protecting Our Common Environment. ***'We must spare no effort to free all of humanity, and above all our children and grandchildren, from the threat of living on a planet irredeemably spoiled by human activities, and whose resources would no longer be sufficient for their needs.'***

2. SUB-THEMES OF ASTANA EXPO 2017

The main theme of Future Energy has been divided into three sub-themes:

1. Reducing CO2 emissions
2. Living Energy efficiency
3. Energy for all

2.1. REDUCING CO2 EMISSIONS

The importance of reducing CO2 emissions is well recognised and through the development of a range of low carbon energy technologies reduction targets become more achievable. Carbon capture and storage systems, promotion of clean and renewable energy sources, and the potential roles of hydrogen and fusion energy, will play a decisive role. This sub-theme can be interpreted through one or more of the following concepts.

a. CARBON CAPTURE AND STORAGE (CCS)

Predicted demand for energy shows an increase of 40 to 50% during the next 20 years. With fossil fuels remaining the most significant resource for the foreseeable future, emission levels will increase and therefore lowering emissions will be a priority.

CCS is a technological alternative to lowering emission rates involving the separation, capture and storage of CO2, preventing the release of CO2 into the atmosphere. The current CCs technology has challenges of efficiency and cost but its development is considered significant.

b. RENEWABLE ENERGY SOURCES

Renewable energy sources are considered more beneficial for health, the environment and the economy. They are less polluting, promote an industrial pattern which creates employment and contribute to a slowing of global warming. In emerging economies and developing countries the rapid spread of renewable forms of energy is particularly important to address some of the questions of disparity.

Advanced technology has given impetus to developments in renewable energy, and added to this technological aspect government support plays a huge role in the dissemination of these resources. The most potential for increasing renewable energy use comes from electricity supply, and 2 areas are important to consider:

- Renewable electricity production is decentralised and therefore does not need the support of a large distribution system
- Optimising electricity distribution systems to allow users to manage their usage, allowing them to buy/sell surplus energy via a smart grid, creating a group of prosumers - who both produce and consume the product.

c. DEVELOPMENT OF HYDROGEN AND NUCLEAR FUSION TECHNOLOGY

HYDROGEN

Being the first element of the Mendeleev's Periodic Table of Elements, hydrogen is the most abundant element in the universe, and its potential as an energy source has been realised for decades. It is the ideal clean, green and renewable source as after combining with oxygen in a hydrogen fuel cell, hydrogen produces electricity, water and heat, with almost no pollution. According to the International Energy Authority: 'Hydrogen could well become the major component of clean sustainable energy systems in the longer term. It is relevant to all of the energy sectors: transportation, buildings, utilities and industry.'

Today the transport applications of hydrogen have been the main forces behind development of the hydrogen economy, leading to the prospect of the replacement of combustion engines burning petroleum based fuels with hydrogen combustion or fuel cells. Progress is curtailed by the development of safe storage for highly combustible hydrogen, and the expense of producing hydrogen cells. When these problems can be overcome, hydrogen can take its place as a central pillar in Future Energy.

NUCLEAR FUSION TECHNOLOGY

Nuclear energy throughout the world is currently produced using reactors, operating on the basis of a controlled fission chain reaction of heavy nuclei, with its associated problems of safety, security and storage of radioactive waste. Nuclear fusion - a process similar to the processes occurring in the Sun, when due to the collision and fusion of hydrogen atoms produced helium and released enormous energy. Although this process has long been regarded as a promising option for generating large amounts of clean safe energy, development of the technology has been restricted to small-scale laboratory experiments. The process of development of controlled thermonuclear fusion is focused on its use in commercial (energy) fusion reactors in the second half of the 21st century. The demonstration experimental reactor being built by ITER (International Thermonuclear Experimental Reactor) in France will begin test production of fusion energy only in 2026; DEMO experimental reactor will be launched only in 2050. The challenges are purely technical and technological complexity, as well as the high cost of development, in this context - a long term program for the development of controlled thermonuclear fusion, as well as difficulty in finding investment.

2.2. LIVING ENERGY EFFICIENCY

The second sub-theme emphasises energy efficiency as a key factor in combating climate change, and is about saving energy, cutting costs and reducing pollution. Its attraction is that it can be achieved mainly through low cost options. EXPO 2017 will be an outstanding opportunity to present these methods and techniques. The following concepts are to be used by Participants to express the sub-theme 'Living Energy Efficiency':

a) ENERGY EFFICIENCY

Looking at the way we use energy in our everyday lives and taking appropriate action is something that everyone can be involved in. This will mean changes in behaviour and lifestyle which need to be reinforced through information and education.

b) SMART CITIES & COMMUNITIES

Urban planning offers huge potential for saving energy. Improved planning for the future, establishing effective efficiency standards is essential but upgrading existing buildings can

also make a significant difference. Making heating, ventilating, air conditioning and insulation more efficient through the use of bio-climatic design, based on local climate is already a feature of many new buildings. Ultra-low energy buildings, zero energy buildings and energy generating buildings have all been created on an experimental basis for some decades, but now are becoming more cost effective. Generating, storing and managing energy where it is consumed is vital to efficient bio-construction and there is the possible scenario of consumers using their buildings as small power plants, returning unused power to the grid or local storage. Smart Grids will allow energy to flow in both directions. For example, consumers can become producers using renewable energy and supply the smart grid, utilising the interconnection of energy, information and communications technologies.

c) EFFICIENT TRANSPORT

Fifty-five per cent of world oil consumption relates to transport according to IEA (International Energy Authority) figures. Mobility of people and goods is important to economic growth, employment and social inclusion. Transport policies need to ensure that sustainable and efficient solutions still provide good conditions for prosperity. Policies such as encouraging the use of electric vehicles, bicycles and hydrogen fuel cell or bio fuelled vehicles should be encouraged for urban transportation, backed up by the provision of adequate and safe road design. Individual action can be as simple as car sharing or car pooling to increase vehicle occupancy, backed up by a sustainable urban transport system.

Aviation will account for nearly 22% of energy transport use by 2050 based on IEA estimates. This will make large contributions to climate change through the production of CO₂ and other greenhouse gases. Liquid fuels are always likely to be needed for planes but the introduction of materials to make the construction lighter and the potential use of bio-fuel are underway. Better management of air traffic can also reduce fuel use.

Freight volume is predicted to increase by 50% by 2055 and during that time it is anticipated that rail transport will become even more energy efficient, particularly as electric power takes over from diesel. Further moves to improve efficiency - lighter rolling stock, less acceleration and the re-use of power harvested from braking - will improve the sector's record even further.

Maritime transport use mainly heavy fuel oil which, though cheap, is highly polluting with a high sulphur content. Bio-fuels could reduce carbon emissions from Maritime transport by 85% (IEA). Wind and solar energy use have been explored but the results have not been viable for a sector that depends on low cost, reliable energy.

d) EFFICIENT INDUSTRY

Industrial use consumes one third of all the energy consumed globally and accounts for 40% of global CO₂ emissions (IEA). In this area, almost more than any other, the introduction of efficient technology and engineering solutions is paramount. By using Best Available Technology (BAT) the IEA estimate that 20% of the energy used could be saved. Even though each industry has different energy requirements many processes produce waste heat. Innovative technologies are being developed to use this waste heat in plant operations or feed it back into the grid. Energy related software applications can be installed to obtain data to help reduce consumption and costs of energy. The replacement of outdated machinery and

the use of more automation and process control systems plus redesign of manufacturing processes and products can demonstrate major savings.

2.3. ENERGY FOR ALL

The third theme reflects the access to power as a basic right and need in the developing world. To transform these economies to more sustainable models wider access to sustainable energy is needed. 'Energy For All' as a theme has several concepts which Participants can explore:

a) ENERGY AGAINST POVERTY

Lack of access to energy impacts negatively on basic human requirements and societal development - health, agricultural productivity, access to water. The traditional use of biomass for cooking and heating causes health problems and premature death; no sustainable energy supply limits structural developments in society and inhibits wealth generation and creation. More than one fifth of the world's population does not have access to electrical energy. Remedying this imbalance, and linking in with the eradication of poverty goals, will require the involvement and commitment of the international community together with the public and private sectors.

b) ACCESS TO SUSTAINABLE ENERGY TOWARDS DEVELOPMENT

Modern clean energy supplies are necessary to accelerate both economic and social development. This technology will enable proper water supplies, sanitation and health care; provide energy for domestic activities and also the economic development of mechanical power, transport, telecommunications and education. Electricity plays a key role as the main enablers for better education and training are lighting and communications. To encourage the widespread use of cheap electricity two problems need to be overcome; first, finding methods to finance the high up front cost of electricity and second, developing skills and markets.

c) DECENTRALISED ENERGY SYSTEMS

These systems can overcome the difficulty of providing remote communities with electricity where low demand is expensive, as they do not need a high density of consumers to be viable. The methods can be straightforward and simple. Installing solar panels on homes, building small local hydropower projects close to communities can meet the needs of those communities at a lower cost than connections to a central grid. Combining together in mini grid systems the small scale technologies can deliver independent renewable energy without major investment.

3. PRESENTATION OF THEMES BY PARTICIPANTS.

The organisers offer support and guidance to all participants at all stages during the development of their presentations, in order to ensure a cohesive and comprehensive overall content of the exhibition.

3.1. DEFINITION OF THEME

The world recognises that issues over energy supply, climate change and access to sustainable power are of huge importance and require new solutions. Over the last few decades innumerable international meetings have been convened with the Club of Rome being at the forefront of this movement, to kick start debate on the limitations imposed on economic growth faced with limited resources and energy. The United Nations Framework Convention on Climate Change was adopted in 1992 but it was not until the Kyoto Summit in 1997 that specific environmental commitments together with a timetable for action were agreed and defined. In its final form the Kyoto Protocol committing all signatories to cut global greenhouse gas emissions by 5.2% (based on 1990 figures) during the period from 2008 to 2012.

A later agreement at the Copenhagen Summit have set temperature increases to be limited to 2 C above pre-industrial levels, but more recent research indicates that even more stringent targets need to be set. Failure to reach reduction targets will make future implementation more expensive and difficult, which presents problems of political acceptability over the short term.

In 2015 the international community adopted 17 global goals of sustainable development, implying relationship of pillars of sustainable development - economic growth, social inclusion and environmental protection.

In addition, as the result of the 21st Conference of Parties of the UN Framework Convention on Climate Change the new framework agreement was approved by defining the standards of greenhouse gas emissions after 2020 and measures to prevent climate change.

Taking place at an opportune moment Astana EXPO 2017 will adopt the concept that the main goal of society must be to develop and nurture the global process to adopt clean technologies that will provide access to plentiful energy supplies.

In addressing the theme of Future Energy, Participants should consider the following important questions:

- Where we get energy from (including potential new energy sources)?
- How do we produce energy?
- How we can use energy more efficiently?

Participants should also consider the following challenges:

- The availability and cost of energy resources and technologies
- The environmental impact of energy use
- Energy security and safety

- Universal access to clean electricity and reliable energy supplies

3.2. OBJECTIVES

- The main theme of Future Energy is supported at Astana EXPO 2017 by a series of objectives:
- Promotion of best energy practices towards sustainable development
- Fostering research and technological development of clean energy
- The exchanging of knowledge on Future Energy amongst all participants, academic institutions and the scientific community; business and industry; and civil society
- Education about and raising awareness of the opportunities, challenges and demands for the future of energy
- Contributing to education, learning and knowledge through art, culture and entertainment
- Creating a platform for technology and the transfer of knowledge and expertise towards a green, healthier, sustainable future.

During the creative process Participants should take account of these objectives and develop their presentations to contribute to the realisation of these aims. The most important goal for Participants to bear in mind is that they are taking part in an effort to create global awareness, at an institutional, corporate and general level, relating to the need to develop responsible and sustainable energy policies and ensure the future of our planet.

3.3. PERSPECTIVES

Participants may utilise as many sub-themes as they choose and should explore them from a minimum of two perspectives chosen from the following five (according to the matrix attached as Annex 1 of this document):

- Scientific Research: Scientific knowledge and research areas focused on the future of energy;
- Cutting Edge Technologies: Advanced technology solutions, products and services;
- Governance: The effects and decisions of public and private governance; Nation states; regional and local governments; supranational and multilateral bodies; corporations; NGOs and non-profits; and other stakeholders;
- Innovative Business Models: Business plans for new energy markets;
- Value Change: Happening as a result of social innovation through social networks and other platforms.

International Expos are designed to raise awareness of, and propose solutions to the enormous universal challenges the world faces today.

Pavilions of International Participants reflect this purpose in several ways, whilst maintaining the integrity of the overall theme. The architecture should be innovative in its design and use of materials, reflecting both the participant's national identity and the interpretation of the EXPO-2017 theme.

Internally, the challenge is to take visitors on a journey through a selected aspect of the theme of Future Energy. It is an opportunity to display discoveries, aspects of best practice and innovation that originate in every country based on said perspectives.

The presentation should bring these projects to life so that information can be easily disseminated to the public and to decision makers at all levels eager to find opportunities for development and co-operation.

3.4. SOURCES OF ENERGY.

The range of energy sources is immense and knowledge of sources and appreciation of the role they play in providing the basis of our development is important at all levels of society.

a) FOSSIL FUEL - COAL, OIL, GAS, SHALE

Currently, fossil fuels provide 80% of energy consumed worldwide. Continued extensive use will ultimately lead to depletion. Moreover, burning these fuels produces greenhouse gases that contribute to climate change. This fact makes it imperative research into techniques to ameliorate these discharges is vital. Exploitation of new deposits from highly inaccessible areas (polar regions, seabeds, jungles, deep water) requires ever more complex and expensive technologies, putting up the prices of products. Current deposits need to optimise efficiency and uses emerging techniques such as fracking (augmenting the extraction of oil or gas by injecting water or other material underground at high pressure into rocks that contain gas or oil). The technique has been controversial, given that aside from consuming large quantities of water, it also introduces chemical compounds into the ground that might contaminate both the soil and aquifers.

Carbon Capture and Storage: CSS technology is at the beginning of its development. It involves the separation and capture of carbon resulting from the processing of fossil fuels. Storing of carbon is mainly by underground sequestration in storage options such as depleted oil and gas wells, non-productive coalmines, geological formations and the ocean floor, located deep below ground. Concerns about possible leaks and outflows causing major environmental problems have yet to be fully addressed. Pilot projects are increasing and CSS could be a meaningful option in the future, once challenges of efficiency and cost are resolved. Other technologies such as clean coal are also in the early stages of development, plus further exploitation of shale oil, shale gas and investigation into the possibilities deep seabed mining of methane thus extending the range and potential of fossil fuels.

b) HYDRO ENERGY

Hydro energy is derived from the speed of water (kinetic energy) and more energy can be obtained by increasing the height over which the water falls. This energy is used to directly power machines and also harnessed to generate electricity through the construction of hydroelectric dams. Exploitation of this type of energy is suitable for both large and small projects.

c) MARINE POWER

The kinetic energy of ocean waves can be transformed into electrical energy through different means

- Oscillating column systems
- Archimedes principle
- Buoyant body
- Overflow and wave impact

The direct application of sea energy through the harnessing of powerful underwater currents has tremendous potential, with the bonus that such activity is steady and provides a predictable flow of energy. The OTEC (Ocean Thermal Energy Conversion) is a transformation process that utilises the temperature differences between the ocean surface and the deeper colder layers in order to generate electricity. Given the immense volume of the body of water making up the oceans this system also has potential. The world's first tidal power generating barrage was built in 1966, but to date there are no tidal power stations in operation. Harnessing tidal power is problematic despite its regularity of production - there are technological challenges and there are environmental impacts on flora and fauna.

d) GEO-THERMAL POWER

The temperature of the Earth increases with depth, and, although the potential of geothermal energy is huge, only a fraction of that can be harnessed from the outermost zone. Evidence of this energy occurs in sites all over the world as it emerges naturally through water either in liquid or vapour states. New types of power plant can utilise the steam emerging at high pressure to generate electricity and the development of HDR (Hot Dry Rock) technology in Europe uses this technique. Working at a depth of 5,000 metres, where rocks reach temperatures of over 180C, fluid is injected at high pressure into fractured rock. The resulting fluid is then used to generate electricity.

e) NUCLEAR FISSION AND NUCLEAR FUSION

Over 16% of world electricity is generated in 450 existing nuclear power plants, as calculated by the IEA. The fissile material, usually uranium, is relatively abundant with reserves estimated to last for another 150 years. In nuclear power plants electrical generators are driven by steam produced by heating water using the high temperatures of nuclear fission reactions. The heat generated by 1 kilogram of uranium is equivalent to burning 2,800 tonnes of coal or 1,800 tonnes of oil. The debate about comparative costs contrasting nuclear with traditional generating plants continues. The advantage of nuclear plants is they do not cause conventional pollution or contribute to greenhouse gases, but the radioactive waste produced is hazardous to health and safe, secure disposal presents challenges. High temperatures inside the reactor are a risk factor in possible explosions. Progress in risk reduction, including advanced cooling techniques and increased plant safety plus the replacement of uranium with other fissile elements such as thorium is being made.

However, fission nuclear energy polarises opinion, with the environmental benefits being set against the concerns created by accidents and the containment and surveillance of

radioactive waste giving rise to liabilities for generations to come. Nuclear fusion, by contrast produces much lower levels of radioactive waste and the risk of explosion is virtually nil. The heat needed to produce heat to turn water into steam is achieved by the fusion of two light nuclei into a heavier one. The most significant problem is the confinement of the fusion plasma, which has a very high temperature, as well as search for materials that can absorb these thermal loads, for receiving and further transfer of the released energy in a fusion reactor. There are many plants and facilities in the world that carry out various scientific and technical works and research on the development of controlled thermonuclear fusion, as well as develop technologies to use in the creation of the first commercial (energy) fusion reactor. One of the main projects is ITER involving Russia, United States, Europe and Japan has the aim of 'putting fusion power into the grid as early as 2040'.

Republic of Kazakhstan is also involved in the research on the development of controlled thermonuclear fusion. According to the decision of the Government of the Republic of Kazakhstan, the bench complex of Kazakhstani Tokamak KTM project is being constructed in Kurchatov, East Kazakhstan region. The goal of this complex is conducting research of materials required for the construction of future power fusion reactors.

f) WIND POWER

Wind Power was harnessed by mankind discovering the use of sails thereby making sea and river navigation possible. Commercial development began and contact between different countries was possible for the first time. Wind energy was also used to drive machinery, particularly grinding grain and is still used today in the drainage systems powered by windmills in the Netherlands. Between 1999 and 2005 wind power, in the form of wind turbines, became the fastest growing source of electricity production increasing by 300% during this six year period. Wind farms are adaptable to both off-shore and on-shore locations and in future the fast upper-atmosphere winds may be a further source of power.

g) SOLAR POWER

The sun is 90 million miles from earth, and it takes less than 10 minutes for its light to travel that distance. Solar energy is the most important source of energy for life forms. As a free renewable energy source, which produces no pollutants, solar is the cleanest form of energy. Its drawback is that it cannot be used at night and amounts of sunlight vary according to location, weather conditions, and the time of day and time of year. Solar energy, comprising of radiant heat and light from the sun, can be harnessed by modern technology like photo-voltaic, solar heating, artificial photosynthesis, solar architecture and solar thermal electricity. In the domestic arena solar power is already extensively used for drying clothes, cooking, drying and pasteurising food; increasingly the installation of domestic solar panels used for heating and cooking and contributing to the energy supply. Solar power is the most exciting use of solar energy. This is how solar energy is converted into electricity either using photo-voltaic or concentrated solar power. As advances are made in scientific research, solar energy could be more affordable in future with decreasing costs and increasing efficiency.

h) BIO ENERGY

Biogas is composed of methane and carbon dioxide, is a gas produced anaerobically, by the breakdown of organic matter in the absence of oxygen. Every year enormous amounts of waste from agriculture and forests is burnt or left to rot. Apart from the release of carbon dioxide adding to climate damage, such wastage means a useful resource is lost. Biogas can be compressed in a similar fashion to natural gas and used to power motor vehicles. Environmentally friendly production from regionally available raw materials and recycled waste could have great possibilities for power production for rural areas.

i) BIOMASS

Biomass is a source of energy that comes indirectly from the sun, stored in plants through photosynthesis and in animals that eat plants. Traditional biomass, such as animal dung, is still extensively used as cooking fuel in developing countries. Modern biomass is cultivated specifically and can be used as a renewable motor fuel and in thermal power plants. Acquiring such fuels is an area of intense investigation, but there are concerns. Environmental objections include the possible disruption of food markets when foodstuffs are directly used for bio-fuel production; and increased deforestation as forests are cleared for crop use.

3.5. THEME STATEMENT SUBMISSION

In accordance with Special Regulation No. 1 *on the Definition of the Exhibition Theme and the Means of its Implementation by the Organiser and the Participants*, the Participant shall submit to the Organiser, together with the application form for the allocation of an exhibition space, the Theme Statement which must contain:

- The chosen subthemes from the ones described in Chapter 2 of these Thematic Guidelines and the perspectives from which these sub-themes will be presented;
- A description of the general content (outline) of the Participant's presentation proposal;
- An indication of which of objectives listed in Section 3.2 herein are pursued with the presentation proposed and a brief explanation on this regard;
- The inclusion of reference/background materials on how the theme and subthemes will be developed in the Participant's presentations;
- The description of the general outline plan of the exhibition space, the exhibits or exhibited items and the display supports.

The Organiser has designed comprehensive and user-friendly submission forms in an accessible format.

For the Participants' convenience and the speedy processing of their Theme Statements, the Organiser will provide an on-line platform for the completion of the relevant form.

The submission form can be found in Appendix No 2.

Once the Theme Statement is submitted, it will be evaluated by the Organiser's Content Department. This Department is responsible for the confirmation that the Theme Statement is consistent with the Theme of Astana EXPO 2017, with the general expectations of the Exhibition and with the provisions of applicable Regulations.

If the Content Department determines that the Theme Statement does not follow the guidelines set out in this document, it will provide consultancy services to the Participant as a matter of urgency.

After the analysis of the Theme Statement, the confirmation of the aspects above stated and the inclusion of the modifications into the document, if any, the Content Department will approve the final Theme Statement by notifying the Participant within five (5) calendar days, following the receipt of the final Theme Statement.

The allocation of the Exhibition space to the Participant will not be considered final until the Theme Statement is approved by the Content Department.

3.6. EXHIBITION PROJECT

As an integral part of this preliminary application, the Participant shall include a document titled 'Exhibition Project', which must contain a full description of the proposed project to construct and install its exhibition, following the general outline submitted in the Theme Statement.

The Exhibition Project must comply with the Guidelines for design and construction of the exhibition pavilions of International Participants issued by the Organiser.

4. WORLD OF ASTANA EXPO 2017

Kazakhstan is a country of open spaces and panoramas of breathtaking scope and beauty. The basic geography of the area has made its mark on its people who are conscious of the need to promote and protect the environment whilst simultaneously seeking ways of ensuring a better life and further prosperity. This determination to make progress has been particularly marked in the last 20 years as Kazakhstan emerged from being a part of the Russian Empire and the Soviet Union, to become recognised as a nation at the centre of the expansion of influence of the Central Asian Region; and to take its place in the wider world.

This energy and determination is graphically demonstrated by the construction of the capital city. Astana will celebrate its 20th anniversary as the capital of Kazakhstan in 2017 when it plays host to Expo 2017 and will blend seamlessly with the EXPO to offer an extended programme of cultural and entertainment event.

Future Energy is not just a title for EXPO2017, or the themes presented in the pavilions and cultural events. It is the guiding principle which underlies the whole structure of the site to provide a Clean Tech Expo. In every instance bio-climatic architecture will be used; clean technology and energy efficient systems will be implemented; the collection, storage and recycling of rain water will also be carried out and measures put in place for the reduction of waste. Essentially the site itself will demonstrate:

- A sustainable project
- A showcase for technological solutions showing that a sustainable future energy is possible

In outline the site of EXPO 2017 resembles a drop of water - the element essential for the existence of life and of great importance in the creation of energy. Covering an area of 173.4 hectares, it will house all the activities expected from a major international exhibition and more.

The site itself is an energy exhibition - encapsulating the whole philosophy of Future Energy.

4.1. EXHIBITION AREAS

The main long axis leads to the centrepiece - the Pavilion of Kazakhstan. Based around this central feature are the Participants' Pavilions; the Thematic Pavilions; centres to house discussions and presentations; the cultural and entertainment venues. In keeping with strong attachment to the natural world the buildings are set in open spaces, to provide a vivid backdrop for the many outdoor events and to give visitors easy access to all venues. The essential service areas, whilst nearby, are housed around the perimeter to ensure the smooth running of the site.

PAVILION OF KAZAKHSTAN

The visitor will experience a vision of the main theme as a Museum of the Future housed in the iconic feature of the EXPO 2017, the Sphere. The "Travel to the Future" show inside the Sphere will endorse the overall theme and educate the visitor in an exciting and imaginative display.

The Sphere, being the biggest of its kind anywhere in the world, will convey messages of nature, history, cultural characteristics, traditions and a ways of life representing Kazakhs.

THEMATIC PAVILIONS

This will be an opportunity to travel through the thematic pavilions and experience something unique exciting and informative. There are four separate experiences under the main theme of Future Energy and each journey through these environments will highlight innovative presentations and communications.

These four experiences will revolve around World of Energy, Energy for all, Energy for Life and My Future Energy.

EBPA

The Energy Best Practices Area (EBPa) will be a window on the world of excellence and innovation showcasing energy related practices with high levels of achievement. Successful applicants will be preparing presentations based around four main categories.

- Sectors (Heavy Industry, Agricultural, Services)
- Policy (Local Regional, National)
- Cutting Edge and Innovation
- International Cooperation Projects

All these exciting case of best practices will be closely associated with the Future Energy Forum.

There will be a satellite presentation area within the pavilion as an adjunct to the main Forum where these special projects can be viewed and discussed in greater detail.

This is a very special Pavilion acting as the platform to communicate some of the most significant achievements in the Energy Sector.

PARTICIPANT PAVILIONS

The participant pavilions will be home to countries, corporations and other international organizations. Participants will be presenting an array of ideas and representations both technical and cultural all under the theme and sub-themes outlined.

Pavilions have been designed to accommodate the needs of all participants and to provide entertainment and education for the visitor as well as areas to eat and areas to shop.

FUTURE ENERGY FORUM

This main feature of EXPO 2017 will take place for the duration of the exhibition. The ambition is to serve as a multilateral international platform for the debate on Future Energy.

The Forum will facilitate debates and conferences with aim of fostering new forms of collaboration and involvement, involving international agencies, the scientific community and academia, as well as NGOs and the private sector. The format will be extensive: panels, conferences, symposia, debates, thematic weeks, open tables and workshops. Aspects to be

addressed will include technology review, analysis of policies, strategies, programmes and specific projects. There will also be examples of best energy practices for reducing greenhouse gas emissions as well as promoting energy efficiency and universal access to sustainable energy. The underlying principles of cooperation and the exchange of knowledge will be nurtured in a constructive and dynamic atmosphere.

The ultimate aim of the Forum will be to produce a 'Manifesto of Values and Principles' to inform the debate on energy that will take place over the next few years and which will be part of the legacy of EXPO 2017.

OPEN SPACES

Astana EXPO 2017 will not be confined in buildings. The outdoor space has been carefully created to enable areas to be used for exhibitions, workshops and installations flowing out from the more formal pavilions to provide information, stimulation and amusement for visitors - bringing energy to the audience.

4.2. THE VISITOR EXPERIENCE

The choice of Astana as the venue for EXPO 2017 marks the first such event in the newly emerging Central Asian region and the three to five million visitors expected to attend will make it the largest international gathering of its kind Central Asia has ever seen. An area which is a bridge between East and West, and a young energetic country which has developed good relations and connections with all the countries and nations on its doorstep will provide the ideal base for this global event.

For visitors their adventure will start in Astana itself. A young city, where the energy of its young population will wholeheartedly embrace the EXPO, and expand and enhance the visitor experience. The investment in new roads and a light rail transport system will make access to the site straightforward and simple. Designed with notable amounts of open space, the site will provide ease of access to all the attractions and teams of welcoming volunteers will assist visitors and ensure that they can fully enjoy their time at EXPO 2017

In the Open Spaces and in all the streets, square and plazas there will be dynamic activities and events to entertain and involve visitors. To compliment this activity there will be an extensive cultural and entertainment programme housed in purpose built centres situated at four strategic sites : The Auditorium; the E-Hall; The Arts Centre; and the Energy Screen. The programme, which will run for all 93 days of the EXPO covers all aspects of culture as EXPO becomes the greatest stage in the world.

THE AUDITORIUM

Music plays a vital part in any EXPO and the performances housed in the Auditorium will aim to generate interest among the general public. This is the venue where big concerts, to include performances by world renowned artists, will take place. Situated at one end of the EXPO site's outer boundary and opposite the large open spectator area, the venue is partially roofed. Maximum capacity is for 7,500 people with a mixture of seated and standing accommodation. This audience can expand to 25,000 when the spectator area outside is taken into account.

The widest possible range of performers will contribute, mixing international stars with local talent and the Auditorium will host many of the events marking key events in the EXPO calendar. For many of the performers at EXPO 2017 this will be a first visit to Astana and Kazakhstan and a unique opportunity for local visitors to see their musical heroes. In response to Kazakhstan's place as a cultural crossroads the Auditorium will showcase a wide range of performing styles and artists, reflecting the cultural diversity of the music world. All musical genres will have a place in the Auditorium emphasising the importance of music in breaking down barriers between peoples.

E-HALL

A space deliberately designed as a multi purpose centre, with a capacity of 1,500 people. It's changeable, organic and highly adaptable nature means that several events can take place simultaneously - a non-stop venue. The E-Hall will host major theatre companies, classical and modern ballet troupes, circuses and distinguished artists, but will also provide family entertainment through smaller, more intimate events such as puppet and magic shows.

The programme will include;

- All kinds of performing arts
- Music acts whose characteristics require and alternative venue to the large Auditorium.
- Film screenings and projections covering a wide range of subjects.

ARTS CENTRE

A venue dedicated to art will be one of the great attractions of EXPO 2017. The main space housing the large permanent art exhibition Energy and Art, covers an area of 2,000 square metres and the space available for temporary exhibition is a further 300-400 square metres.

ENERGY SCREEN

An enormous LED screen on the front facade of the Auditorium will complement the other venues, allowing visitors to see it from all parts of the main arena. The programme for contents will meet two basic criteria. Firstly, it should enhance the festive, celebratory atmosphere of EXPO 2017, showing images from the best visual artists. Secondly the screen will be interactive, encouraging visitor participation, and promoting the main themes of the EXPO.

Astana EXPO 2017 will be the first EXPO to live stream events from the site, reaching out further into the world using the latest technology. The Cultural and Entertainment programme is the inspiration, the force and the drive that intensifies the EXPO 2017 experience making it a lasting memory for the millions of people who attend this event. These aspirations are defined in the programme goals:

- Attracting the best artists, creatives and performers from all artistic disciplines
- Devising a programme to suit all types of audiences.
- Entertaining, raising awareness and conveying values
- Harmonising view of the past and the future
- Encouraging partnerships between local and international artists

EXPO SITE

All the individual pavilions, all the venues, all the performance areas will be part of the organic whole which is Astana EXPO 2017. The whole EXPO site is a global stage, another element in the agenda of non-stop activity. To create an atmosphere filled with fun and interest while visitors are walking from place to place, waiting to enter pavilions the Organisers have devised a range of entertainment which comes out to interact with people to heighten their enjoyment of this dynamic environment.

MAIN EVENTS

The Cultural and Entertainment programme includes major events to heighten the visitor experience, and extends outside Astana EXPO 2017 site itself to the vibrant city of Astana.

- Opening and Closing Ceremonies
- The Daily Parade
- The Daily Show
- Notable Days

OPENING AND CLOSING CEREMONIES

These ceremonies are both designed to be broadcast via television and the Internet, reaching millions of people, and will be highlights of the EXPO's cultural programme. The Opening Ceremony will welcome the world to EXPO 2017 and will involve the whole city of Astana and its citizens. The buildings and bridges of Astana will be integrated into, and form the backdrop for, a spectacular event, and give an opportunity to show the environmental, ethnic and cultural diversity of Kazakhstan. The organisers are committed to create a production based on the tenets of multiculturalism, respect and sustainable development, through the use of music, theatre and dance. There will be many first performances including a specially commissioned musical composition which will provide the soundtrack of Astana EXPO 2017.

The Closing Ceremony will encapsulate all that happens during the 93 days of the EXPO. Future Energy and all the optimism and vitality engendered in the creation and running of the EXPO will be recognised, and rather than a conclusion' this will be an occasion to look forward, full of optimism and hope for the future and a belief in our human capacity for transformation.

DAILY PARADE

The special highlight of the day, the Daily Parade, will take place twice a day. The morning parade will involve the whole EXPO site and the evening parade will culminate in the Kazakhstan Pavilion and act as the transition into the Daily Show in the open area outside the Auditorium. The format of street theatre and individual artistic performances in a promenade style, augmented with multimedia devices, will create a grand spectacle.

The idea behind the parade is to show the different forms of energy available on the planet and is likely to be based round two main concepts; the origin of the universe and life and mankind's technological evolution.

THE DAILY SHOW

Marking the end of each day this 20 minute show will take place in the open area outside the Auditorium, and will include a combination of video mapping, acrobatic dancing and pyrotechnics. Continuing on from the themes of the Parade the show will pose questions about the future, and its optimistic premise will reinforce the idea that we are capable of seeking and finding new systems of sustainable growth for everyone.

NOTABLE DAYS

- A) Kazakhstan: Astana will celebrate its 20th anniversary as capital of Kazakhstan on 6th July 2017 and this notable event will be the focus of a week long celebration in the city, with additional activities taking place at EXPO 2017. Events planned include the Ethnic Festival which will offer the opportunity to reflect on the enrichment of the human spirit when different cultures are able to exchange talents and creativity. Constitution Day on 30th August 2017 will also be celebrated with concerts and performances, and EXPO will host a selection of popular artists to mark this important event.
- B) Participating countries: All the different nations and countries taking part in EXPO 2017 will have a range of opportunities to collaborate in events.
- National Days. Each participating country will have an allocated morning to celebrate its national day. As the host nation Kazakhstan will officiate at a ceremony to honour each of them. National Day events will be a chance extol the particular cultural highlights of the country, and may be organised to help foster better international relations and understanding of different cultures. Participation need not be limited to purely national events but may involve organising a group event, a regional day or base and event on a specific theme unconnected with National Days.
 - Cultural Events and Shows: These events will be a further opportunity to raise the profile of a country and round off National Day celebrations.

5. LEGACY

5.1. CHALLENGES FOR FUTURE ENERGY

Astana EXPO 2017 will be a call to action to the world. The earth is a precious resource and our increasing need to exploit its resources to serve our unlimited energy requirements, has begun to unbalance its natural environmental rhythms. The choice of Future Energy as a theme reflects the recognition by Kazakhstan's leaders of the finite nature of its own vast reserves of natural energy, and that eventually the country, and the rest of the world, will have to make the transition to greener economies using alternative energy sources. The task will not be an easy one but the journey can only start with a clear and comprehensive map pointing out the direction of travel.

The challenges of this concept for a more sustainable energy future will be enshrined in the 'Manifesto of Values and Principles of Astana EXPO 2017 arising from the Astana EXPO 2017 Future Energy Forum. This Manifesto will challenge all stakeholders to:

- Cooperate
- Reach goals of energy efficiency
- Reduce greenhouse emissions
- Generate clean energy
- Invest in developing countries

The fundamental aspects of the Manifesto will outline a new code:

- The management of energy as a resource directly impacts the lives of all people, as well as the health of the planet we inhabit
- The theme and sub themes of the EXPO address basic issues of international importance
- The objectives of Astana EXPO 2017, the promotion of a sustainable, democratic and responsible energy future, will form the basis of the Manifesto
- The Manifesto will be a milestone that will validate future energy models and reaffirm the need to address and handle the topic of energy collectively and by consensus.

The challenge resulting from Astana EXPO 2017 is too important for the world to ignore, and the benefits for all people through the adoption of its recommendations and solutions will ensure a better future for all.

5.2. 2017 AND BEYOND

After the 93 days of intense experience which will be Astana's EXPO 2017 - what then? Even whilst the EXPO was in the early planning stages Kazakhstan had the future in mind with the ambitious aim of creating a sustainable socio-economic legacy for Astana, Kazakhstan and the rest of the world. At the global level the aim is to accelerate the development of innovation in the energy sector and to emphasise the urgency of implementation of sustainable methods of energy production. At the regional /national the aim is to become a catalyst for the transition of Kazakhstan and the Central Asian Area to a greener sustainable economic model. Locally, in Astana, the EXPO site will evolve into a centre for science and culture and much more.

The EXPO site is being constructed as an example of a new ecologically appropriate lifestyle, responding to the requirements of Astana's future development, and with the flexibility for future use. Always keeping in mind the initial purpose of the site, buildings will change their use but many will continue to serve the needs of Future Energy. Plans for re-use include a national museum and gallery and an international centre of culture. The infrastructure created to serve the EXPO, the EXPO village and hotels will become part of the housing stock of Astana, linked into the city by the sustainable light rail system. In the long term a successful EXPO will enhance Astana's already significant reputation as an attractive centre for large international events.

Leaders of Kazakhstan envisage the Future Energy theme will provide impetus towards their national goal of long term sustainable economic development. However Kazakhstan is not an inward looking nation and another legacy of EXPO 2017, even beyond energy, will be an expansion of the nation's cooperation with industrialised, developing and less developed countries.

On the world stage the publication of the findings of the Future Energy Forum, will inform the debate on energy that will continue to take place in subsequent years. The aim is to cement an alliance between governments, organisations, business organisations, commercial interests, environmentalists and consumers with a 'Manifesto of Values and Principles' that will serve as a model for the planet. This will be the intellectual legacy of EXPO 2017

Whilst it is vital that political and social organisations respond positively to the need for change, Astana EXPO 2017 aspires to motivate and inspire members of the public to examine their preconceptions of the availability and use of energy - and to become ambassadors for change. Every journey begins with the first step - Astana EXPO 2017 represents that step.

GENERAL MATRIX OF SUB-THEMES AND PERSPECTIVES

Perspectives to address the sub-themes		Sub-theme 1: <u>Reducing CO2 emissions</u>	Sub-theme 2: <u>Living energy efficiency</u>	Sub-theme 3: <u>Energy for all</u>
Scientific Research:	Scientific knowledge and research areas focused on the future of energy. (Concept development; energy systems; new sources; uses; trends; efficiency; etc.)	Renewable energy	Energy efficiency	Energy against poverty
Cutting edge technologies:	Advanced technology solutions: products and services (Power generation; storage; transmission; distribution and consumption; energy systems; security; energy efficiency; comfort; etc.)	A future in hydrogen?	Urban planning and buildings	Access to sustainable energy towards development
Governance:	The effects and decisions of public and private governance: National states; regional and local governments; supranational and multilateral bodies; corporations; NGOs and non-profits; and other stakeholders (Management; performance; strategies; policies; guidance; processes and projects; etc.)	Carbon Capture and Storage (CCS)	Efficient transport	Decentralised energy systems
Innovative Business model:	Business plans for new energy markets. New types of business. (Technology markets; business opportunities; relationships; entrepreneurs; etc.)	Fusion energy	Efficient Industry	
Value Change:	Value change due to social innovation through social networks and other platforms (such as cloud sourcing), social participation and behaviour change.			

**SUBMISSION FORM FOR
EXPO 2017 INTERNATIONAL
SPECIALIZED EXHIBITION
PARTICIPANTS' THEME STATEMENT**



Form Number _____

Submission Date _____

Title _____

Country _____

Applicant _____

Contacts _____

General description of the Exhibition _____

№	Development of the Theme	Choice	Description
<u>1</u>	<u>Sub Themes</u>	Please indicate the sub themes that you intend to address by selecting the tick box	Short description
1.1	Reducing CO2 emissions		
1.2	Living Energy efficiency		
1.3	Energy for all		
<u>2</u>	<u>Objectives</u>	Please indicate the objectives that you intend to address by selecting the tick box	Short description
2.1	Promote Best Energy Practices		
2.2	Exchange of Knowledge on Future Energy		
2.3	Educate and Raise Awareness of Opportunities Challenges and Demands for the Future of Energy		
2.4	Contribute to Education, Learning and Knowledge Through Art, Culture and Entertainment		

2.5 Create a Platform for a Sustainable Future

3	<u>Sources of Energy</u>	Please indicate the sources of energy that you intend to address	Short description
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3.1

4	<u>Thematic Events During EXPO 2017*</u>	Please indicate the events that you intend to address by selecting the tick box and providing an outline of the content of your submission	Short description
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4.1 Participating Countries National Days

4.2 Participating Countries Cultural Events & Shows

*** - Thematic Events during EXPO 2017 Astana**

Participants who wish to stage thematic events in their pavilions and specific areas designated by the Organiser for this purpose during EXPO 2017 must submit a description of the content of such events to the Organiser for approval prior to their implementation.



DESIGN AND CONSTRUCTION GUIDELINES FOR OFFICIAL PARTICIPANTS OF THE EXPO 2017 INTERNATIONAL RECOGNISED EXHIBITION IN ASTANA (EXCEPT FOR JOINT PAVILIONS)

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- 2 THE OFFICIAL PARTICIPANT'S PAVILION DESIGN**
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9. ANNEXES

1. INTRODUCTION:

1.1. TERMS AND DEFINITIONS.

The present Special Regulations use the following terms and definitions:

- 1) "Structures" - exhibition pavilions and other buildings constructed by the Exhibition Organizer ("the Organizer") and accessible to Official Participants;
- 2) "International pavilions" - buildings constructed by the Organizer and located at the Exhibition territory within the space allotted by the Organizer for Official Participants;
- 3) "Pavilions" - space situated in an international pavilion and provided by the Organizer to Official Participants for their exhibit installation;
- 4) "Construction" - construction activity including construction and installation/dismantling operations and other engineering works and also works related to reconstruction and work on interior and exterior finishing.
- 5) "Construction Manager" - the person to be appointed by the Official Participant and qualified to monitor the construction of pavilions and other structures;
- 6) "Construction Inspector" - the person to be appointed by the Organizer to perform inspections of Official Participants' construction activity;
- 7) "Contractor" - the legal entity carrying out construction of pavilions and other structures.
- 8) "Design and Construction Operations Coordinator" - the person to be appointed by the Organizer to coordinate the Official Participant's design and construction operations.
- 9) "Official Participant" - the legal entity representing a certain country and participating in the EXPO 2017 International Recognised Exhibition in Astana and renting a certain Pavilion.
- 10) "Exhibition Organizer" - Joint-Stock Company "National Company "Astana EXPO-2017", administering the EXPO 2017 International Recognised Exhibition in Astana.
- 11) "The Pavilion Design" - schematic design; simplified form of the design (planning, spatial, architectural, process, structural, engineering, decorative or other) solution prepared as a scheme, drawing, first draft (draft) and clarifying the intention of this solution.
- 12) "Facility" - an international pavilion.
- 13) "Handling Area" - logistics area located at the Facility's lower level and intended for the unloading and loading of the exhibition participants' cargo. The handling area has a security pass system.

1.2. PURPOSE

The present document for the Exhibition's Official Participant is intended to define uniform rules on design and construction of Official Participant's Pavilion Design at the Exhibition Organiser's Facility.

The present guidelines (если пропущу, везде нужно поменять Guidelines на guidelines) shall familiarize the Official Participant's architect, designer, engineers, and contractor with the overall level of quality of the whole project and the Exhibition Organiser's minimum design and construction requirements for the Official Participant's Pavilion.

The present guidelines shall be handed over to the Official Participant for reading and is required during the preparation of the Official Participant Pavilion Design; the Official Participant must strictly adhere to the requirements of this guidelines and to ensure fulfilment of these by the Architect, Project Engineer, Contractors and Subcontractors of the Official Participant. The criteria of this Guidelines establish the quality level of project works and construction of the Official participant's Pavilion throughout the Facility. Considering this, the guidelines shall be provided to the Official Participant's Architect, Project Engineer, Contractors and Subcontractors.

Below is information that sets out the most important Exhibition Organiser's requirements and Official Participant's obligations.

Fulfilment of instructions and procedures detailed in this Guidelines will facilitate the fastest approval by the Design and Construction Operations Coordinator and timely completion of the Official Participant's Pavilion design and construction.

The said Guidelines is available electronically for free at the following address: www.expo2017astana.com. The exhibition Organiser is entitled, at its discretion, to reasonably amend the guidelines with prior notification of the Official Participant.

The Exhibition Organiser shall reserve the right to make a decision, at its discretion, to amend and supplement the present guidelines. Such amendments and supplements shall be brought to the Official Participant's notice within 5 (five) working days from the moment of their adoption by the Exhibition Organiser and shall become effective from the moment of such notification. The Exhibition Organizer may amend any part of the guidelines as regards a certain Official Participant or group of Official Participants, BUT NONE of such amendments of the guidelines shall imply an amendment for other Official Participants.

When any conflict arises between the present guidelines and the Contract of Participation in Exhibition, the Contract shall prevail.

1.3 FACILITY DESCRIPTION

The property developer, owner, and, correspondingly, Organiser of the Exhibition for this Facility shall be JSC "NC "Astana EXPO-2017".

The aim of the exhibition Organiser is the creation of a facility that will be an active platform for demonstration of the best global developments in the field of energy efficiency and "green" technologies.

The Exhibition Organiser has constructed the exhibition pavilions for countries - "the International Pavilions" intended for Official Participants (the "Facility/-ies") so that Official Participants can exhibit at the EXPO 2017 International Recognised Exhibition in Astana ("the Exhibition").

The Facilities are at the following address: Yesil District located within Turkestan Street, street No.29, Akmeshit Street, and street No.28 in Astana, Republic of Kazakhstan.

The Facilities comprise 14 similar interconnected U-shaped two-storey buildings with roofed atria oriented towards the Ring Boulevard. They are spatially combined into clusters, yet each pavilion is independent with separate access.

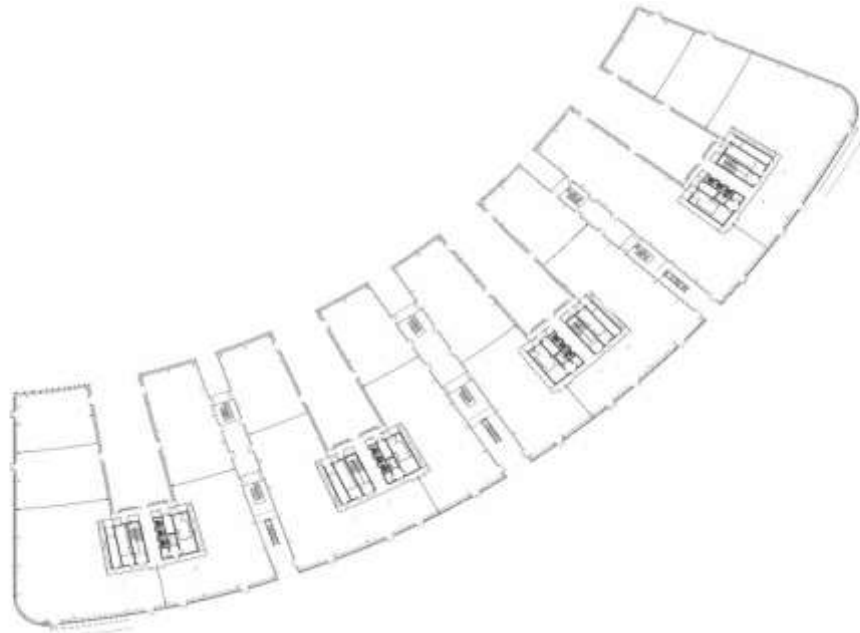
Total area of the 14 Facilities is 226,234 sq.m with the above-ground part at 100,822 sq.m.

The ground floor height is 5.4 m;

The first floor height is 8.0 m;

The second floor height is 4.0 m.

The 1st floor's free and open layout enables flexible planning of the Official Participants Pavilions' internal space, in accordance with the individual requirements of the exposition layout and selected concept of the interior design.



a

planning solution for a cluster consisting of 4 U-shaped Facilities.

*Figure 1:
Option of
space*

For perspective post-exhibition use, there is the possibility of laying an additional floor (mezzanine) in the middle in the Facility structures at an elevation of 4.1 m from the first floor finished floor elevation. During the Exhibition, the mezzanine can be installed by Official Participants in the form of individual zones in accordance with the general concept of the pavilion space arrangement.

To allow the Participants to demonstrate their own national cuisines, there is the possibility of placing small cafés (bistros) on the first floor and full-cycle restaurants on the second floor of the pavilions.

Also, there is the possibility of placing administration rooms, Participants' offices, and auxiliary rooms on the Facility's upper floors. Each U-shaped Facility will be equipped with 3 (three) passenger and 1 (one) freight lifts servicing the Underground (-1) level and upper floors.

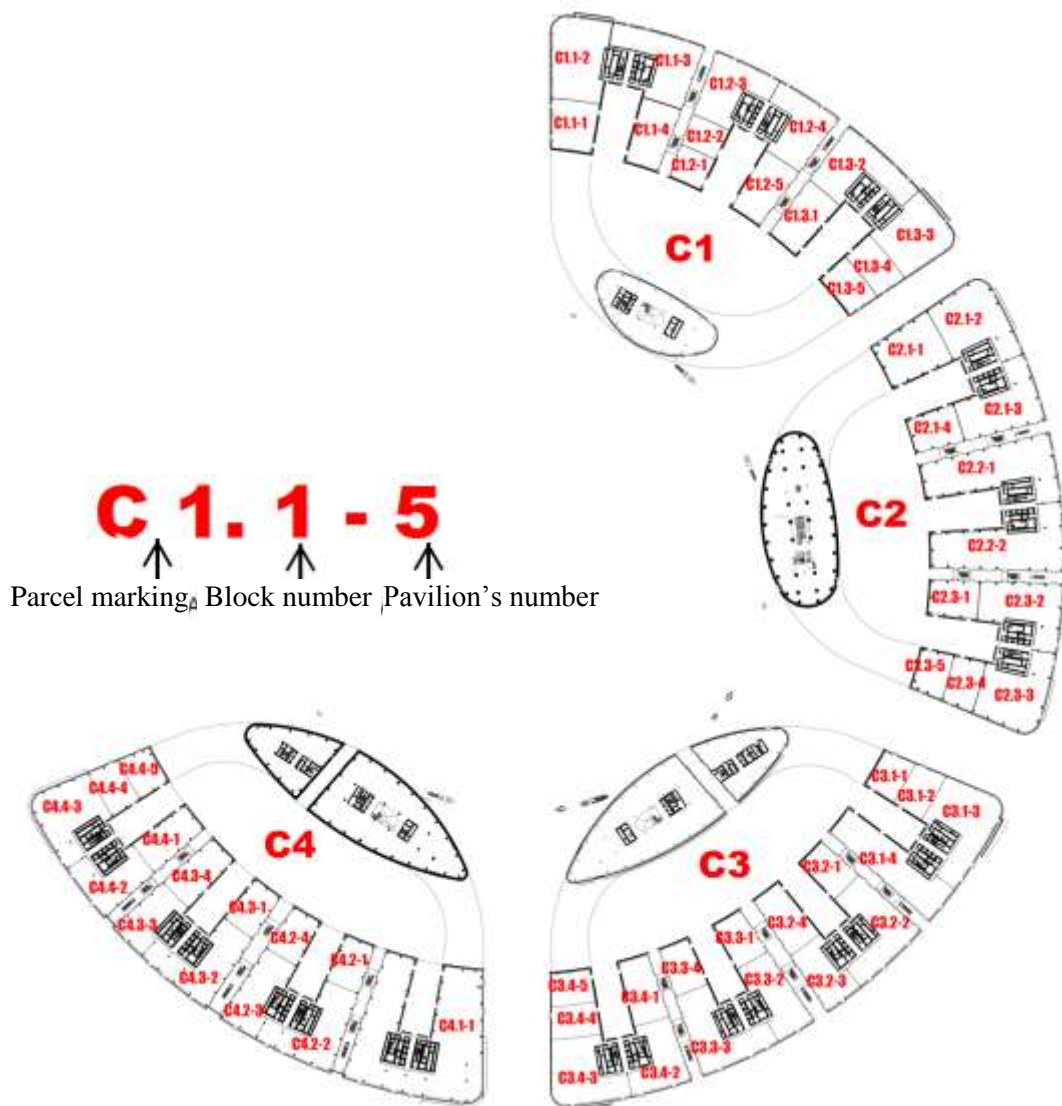


Figure 2: Option of Facilities' distribution for Official Participants.

Parcel C1 EXHIBITION AREA		Parcel C2 EXHIBITION AREA		Parcel C3 EXHIBITION AREA		Parcel C4 EXHIBITION AREA					
C1.1	C1.1-1	563 m ²	C2.1	C2.1-1	462 m ²	C3.1	C3.1-1	350 m ²	C4.1	C4.1-1	3020 m ²
	C1.1-2	1144 m ²		C2.1-2	1143 m ²		C3.1-2	396 m ²		C4.2-1	407 m ²
	C1.1-3	982 m ²		C2.1-3	1008 m ²		C3.1-3	1127 m ²		C4.2-2	987 m ²
	C1.1-4	612 m ²		C2.1-4	862 m ²		C3.1-4	1137 m ²		C4.2-3	747 m ²
C1.2	C1.2-1	293 m ²	C2.2	C2.2-1	1461 m ²	C3.2	C3.2-1	403 m ²	C4.2	C4.2-4	403 m ²
	C1.2-2	317 m ²		C2.2-2	1461 m ²		C3.2-2	986 m ²		C4.3-1	407 m ²
	C1.2-3	835 m ²		C2.3-1	457 m ²		C3.2-3	620 m ²		C4.3-2	997 m ²
	C1.2-4	834 m ²		C2.3-2	1009 m ²		C3.2-4	556 m ²		C4.3-3	589 m ²
C1.3	C1.2-5	612 m ²	C2.3	C2.3-3	1083 m ²	C3.3	C3.3-1	407 m ²	C4.3	C4.3-4	550 m ²
	C1.3-1	611 m ²		C2.3-4	413 m ²		C3.3-2	747 m ²		C4.4-1	550 m ²
	C1.3-2	985 m ²		C2.3-5	366 m ²		C3.3-3	986 m ²		C4.4-2	712 m ²
	C1.3-3	988 m ²					C3.3-4	403 m ²		C4.4-3	1002 m ²
	C1.3-4	448 m ²					C3.4	C3.4-1		550 m ²	C4.4-4
C1.3-5	408 m ²			C3.4-2	712 m ²	C4.4-5		350 m ²			
							C3.4-3	1002 m ²			
							C3.4-4	396 m ²			
							C3.4-5	350 m ²			

Table 1. Area indicators upon distribution (1st floor).

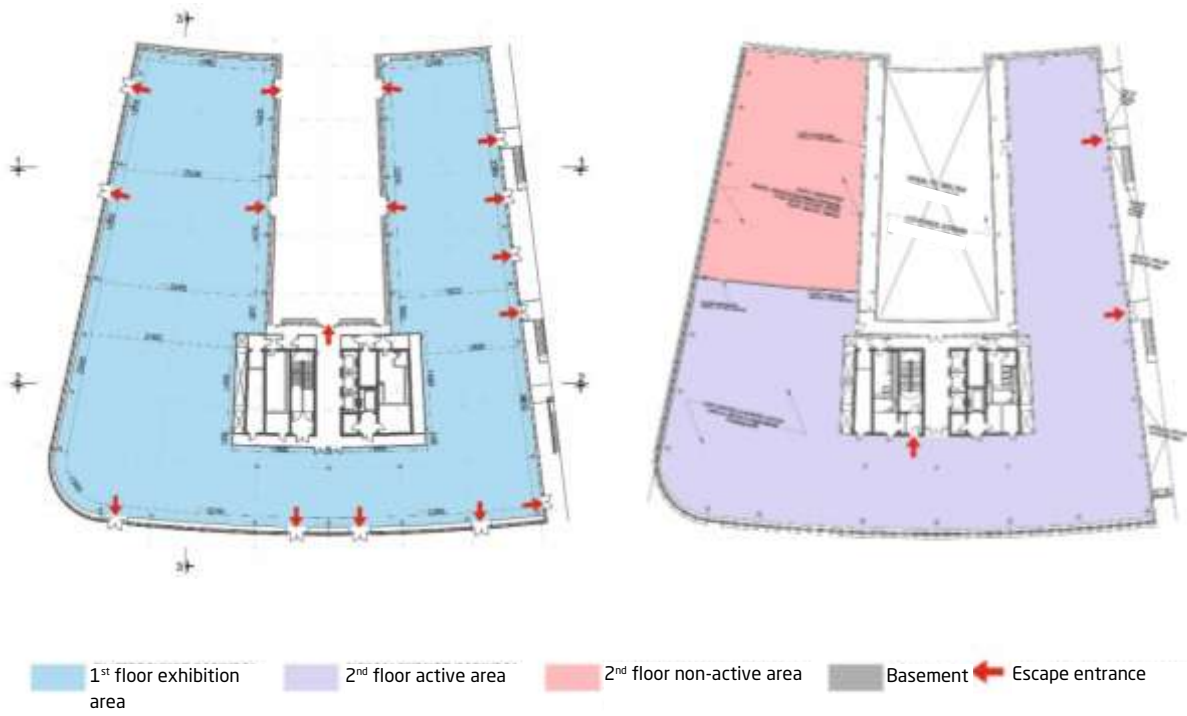


Figure 3: Utilized area of the first floor.

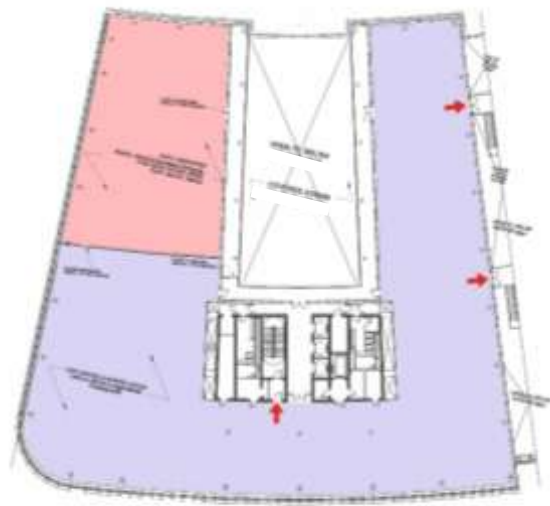


Figure 4: Utilized area of the second floor.

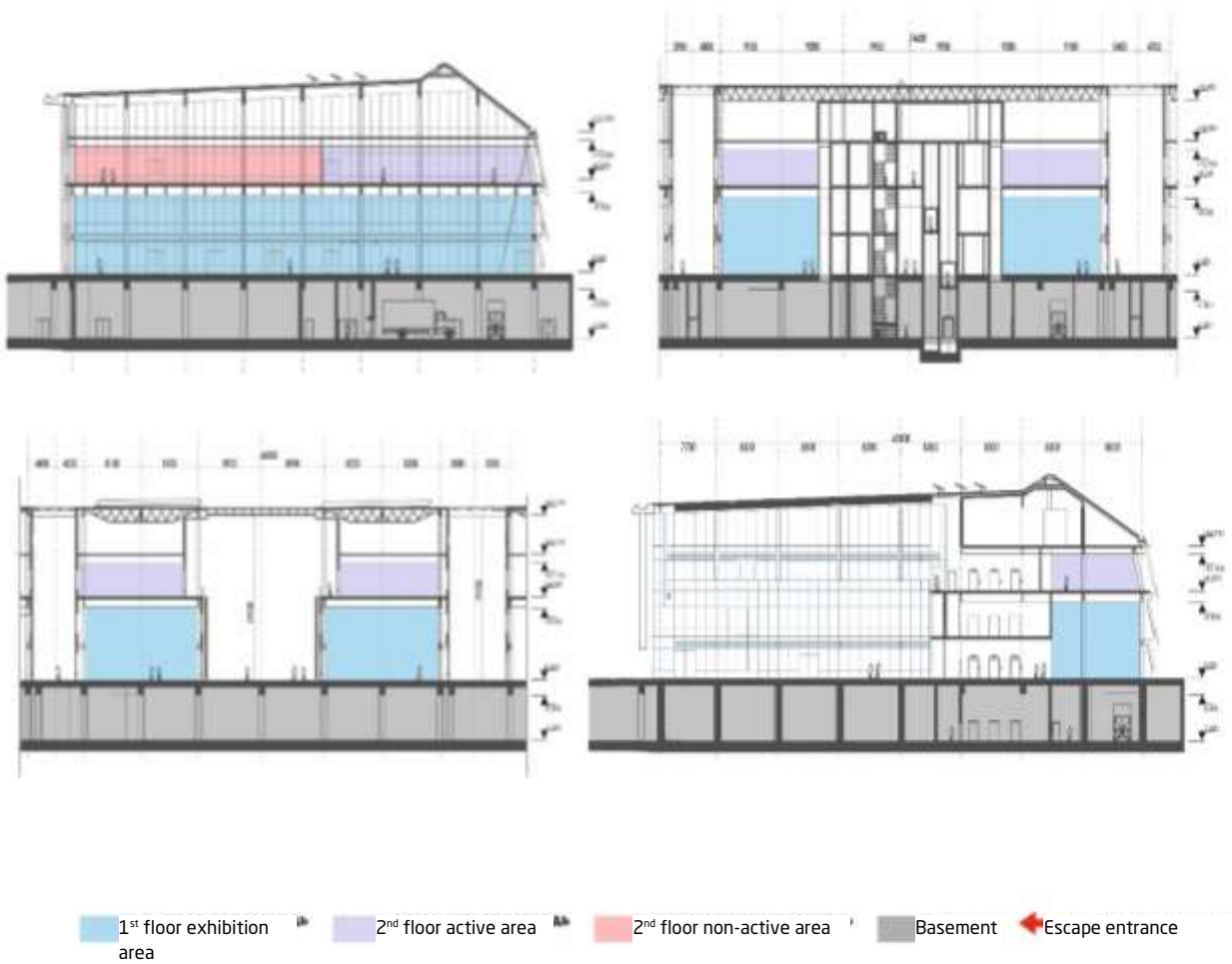


Figure 5: Cross-cuts of an international pavilion.

At the underground level, there will be utility systems' engineering rooms and temporary warehouses with logistics tunnel for exhibits' conveyance, loading and unloading. For safety purposes, warehouses of each Official Participant will be additionally fenced with wire mesh.

1.4. EVENT CALENDAR.

No.	Procedure	Beginning date	End date
1	Submission of Pavilion Designs to the Exhibition Organiser for pre-review and approval	February 1, 2016	August 1, 2016
2	Review and approval of Pavilion's shop drawings by the Exhibition Organiser	August 1, 2016	October 1, 2016
3	Handing over of Pavilions to Official Participants, and commencement of construction and installation	By January 2, 2017	
4	Transport of exposition and exhibition components into Pavilions	April 3, 2017	May 26, 2017
5	Installation of equipment and decoration of interiors	January 2, 2017	May 8, 2017
6	Installation of exhibits, completion of construction and installation and pre-commissioning works, permit for commissioning		May 26, 2017
7	Dismantling and restoration of Pavilions with handover to the Exhibition Organiser	September 20, 2017	December 15, 2017

TABLE 2. SCHEDULE OF WORKS RELATED TO THE DESIGN AND CONSTRUCTION OF OFFICIAL PARTICIPANTS' PAVILIONS

The Official Participants' design and construction operations will be coordinated with the Exhibition Organiser by the Technical Office, in which Design and Construction Operations Coordinators will be appointed for the Official Participants.

The Design and Construction Operations Coordinator will provide the Official Participants with all the general information by their requests and will act as the Exhibition Organiser's main representative for contacts with Official Participant on issues of the Official Participant's Pavilion designing and construction.

The Design and Construction Operations Coordinator will coordinate reviewing of all Official Participants' Design documents to be approved by the Exhibition Organiser before commencement of construction.

The Design and Construction Operations Coordinator will work on coordination of all the construction activity of Official Participants at the Facility.

The Official Participant's Contractor must get in contact with the Design and Construction Operations Coordinator prior to commencing of construction at the Facility.

The Coordinator's full name and contact data will be given to the Official Participants upon their address to the Technical Office.

The Technical Office is the Organiser's structural division that performs the coordination of the Official Participants' activity on the territory and within the holding of and preparation for the EXPO 2017 International Recognised Exhibition in Astana.

- information and technical support of Official Participants;
- coordination of project and construction and installation operations, monitoring of construction and installation operations of Official Participants;
- review and approval of Pavilion Designs;
- issuing initial data for Pavilion design;
- coordination of Official Participants' interaction with the municipal authorities of Astana and government authorities of the Republic of Kazakhstan regarding the Pavilions design, construction and installation operations.
- The Technical Office serves for the maximum simplification of going through permit procedures required for Pavilion design and construction, support of Official Participants regarding information and interaction with all the necessary authorities of Astana and the Organizer. Also, the Technical Office consults the Official Participants' representatives on the matters of interaction with other participants of the Exhibition, municipal authorities from a technical point of view, and issues explanations and references on regulatory construction documents in force on the territory of the Republic of Kazakhstan.

2. THE OFFICIAL PARTICIPANT'S PAVILION DESIGN

2.1 REQUIREMENTS FOR SUBMISSION OF THE OFFICIAL PARTICIPANT'S PAVILION DESIGN (INCLUDING EXPOSITION PROJECT).

Official Participants shall, by their own efforts or by third party's efforts, develop a Pavilion Design. The design operations shall be executed in full compliance with the requirements of local and international standards in force in the Republic of Kazakhstan and with the requirements of the present Manual.

2.2 COMPOSITION OF PAVILION DESIGN PRESENTED TO THE EXHIBITION ORGANIZER.

The Official Participant's Pavilion Design shall be subject to compulsory approval by the Organizer's Technical Office. The Pavilion Design shop drawings shall be subject to compulsory approval at the Technical Office by the Design and Construction Operations Coordinator prior to commencement of construction and installation at the Facility.

2.2.1 THE PAVILION DESIGN.

To obtain preliminary approval of the Pavilion Design, the minimum required set shall include the following (scale 1:100):

- The Official Participant's Pavilion architectural plan (the plan showing the layout of rooms, entrances and exits including escape exits, process equipment, exhibit, furniture etc.);
- Axonometry;
- Pavilion's ceiling plan with lighting equipment;
- Pavilion's floor plan with explanatory legend of finishing;
- Sketch of Pavilion's interior colour scheme;
- Sketch of Pavilion's exterior colour scheme;
- Pavilion's façade and interior designs;
- List of materials and equipment planned to be used in the Pavilion;
- Data on electric power consumption (load) for the Pavilion with breakdown by consumers;
- Plans, diagrams of water supply, water disposal, power supply, electric lighting and task light, heating, ventilation and air conditioning systems, information telecommunications, security systems etc.;
- Information on planned logistics and spacing of Pavilion's visitors flow;
- Pavilion's construction schedule;
- Timetable of dismantling and removal of Pavilion's materials from the Facility.

2.2.2. EXHIBITION ORGANIZER'S APPROVAL OF THE SCHEMATIC DESIGN.

To obtain primary Exhibition Organiser's approval, the Pavilion Design must be approved by the state authorities for fire safety, sanitary and epidemiologic and radiologic safety. For this, the Official Participant submits the Pavilion Design for review to the Technical Office for pre-review.

Official Participants shall submit the Pavilion Design to the Organiser for pre-review and approval within the period from February 1, 2016 until August 1, 2016. Pavilion Designs must be reviewed and approved until October 1, 2016.

The period of the Pavilion Design approval in the Technical Office for each Official Participant is 10 calendar days after receipt of all the documents comprising the Pavilion Design in accordance with the requirements of the guidelines.

At the Official Participant's request, the Exhibition Organiser arranges for meetings at the Facility for pre-review of the proposed Pavilion design.

The Pavilion Design must be developed in accordance with the imposed requirements of the guidelines, and only admitted for operations upon review and approval by the Design and Construction Operations Coordinator. In case the Design and Construction Operations Coordinator issues comments on the Pavilion Design, the Official Participant shall within 10 calendar days make the necessary corrections to the Pavilion Design and submit it for re-review.

In case of full compliance, the Pavilion Design shall be approved.

2.2.3 SHOP DRAWINGS.

Shop drawings are part of the Pavilion Design and shall be approved by the Exhibition Organizer and accepted for construction and installation operations. The minimum set of Pavilion Design shop drawings subject to compulsory approval in the Technical Office by the Design and Construction Operations Coordinator prior to commencement of construction and installation at the Facility shall include the following:

2.2.3.1. ARCHITECTURAL AND CONSTRUCTION SOLUTIONS.

“Architectural and Construction Solutions” section shall include, but is not limited to, the following:

- Description of the Official Participant’s Pavilion architectural solutions, main architectural data and space planning solutions of the Official Participant’s designed Pavilion;
- Description and justification of architectural and construction solutions on mezzanine design (design schemes, framing and envelope, ceilings, materials of calculations for the structural part of the design) enabling an assessment of the strength, reliability, and stability of the structure;
- Measures to ensure rights of disabled persons and other people with limited mobility, in particular regarding access to the Official Participant’s designed Pavilion;
- Justification of solutions on heat and sound protecting and fireproofing properties of the building envelope, and of principal solutions for the reduction of production noise and vibration, and the household and sanitary services of employees;
- Main drawings:
 - a) plans, façades and cross-cuts of Official Participants’ Pavilions, showing main bearing structures and building envelope (for the mezzanine), interiors, aesthetics and design;
 - b) data sheet of materials and equipment.

Drawings (plans, cross-cuts) shall contain the following:

- a breakdown of the axes with reference to the axes of the Facility;
- legend of Pavilion’s premises;
- bill of premises’ finishing with attached data sheet of materials (including finishing materials for interior, built-in decorative/structural components related to placement of exhibit, special-purpose, large or heavy equipment etc.).

2.2.3.2 PROCESS SOLUTIONS.

The “Process Solutions” section shall include, but is not limited to, the following:

- Explanatory Note on the technique;
- Composition and layout/arrangement plan of process and exhibition equipment;
- Summary table of loads and operating parameters corresponding with the approved version as part of the Pavilion Design;
- Process flow diagrams (if any);
- Description of actions on energy saving;
- Description of actions and processes on alternative and renewable energy sources;
- Data sheet of materials and equipment.

2.2.3.3. UTILITY SYSTEMS BY SECTIONS.

Power Grids Including Low-Current Systems:

Drawings of the Official Participant's Pavilion electrical equipment, power supply and low-current systems shall be developed with assurance of integration (coordination) with the Facility existing systems and include, but not be limited to, the following:

- Explanatory Note;
- List of shop drawings and documents;
- Single line design electrical diagram;
- Control circuits' wiring diagram;
- Plans of lighting grid, layout of equipment, socket network, earthing network (specifying numbers of cable groups, grade and cross-section) at a scale of 1:100 or larger;
- Layouts and features of installation of low-current equipment (automation, safety systems, special-purpose fire protection systems developed by the Official Participant (gas fire suppression, fire protection measures for kitchens etc., TV, sound accompaniment systems, telephony) at a scale of 1:100 or larger;
- Plans of arrangement of electric consumers of exhibition equipment at a scale of 1:100 or larger;
- Data sheet and basic parameters of main exhibition equipment;
- Piping diagram of vertical and horizontal cable chutes and trays;
- Data sheet of equipment, materials and fittings (specifying electric power and parameters of feeding grid);
- Main technical parameters of the Project - the installed and design capacity, rated current, cosine etc. (specifying all the design and allowed loads);
- Permit to use electric power for heating (if any);
- Connection diagrams shall be located inside the electrical boards.

Water supply and sewage (WSS) including automatic water-based fire suppression:

Drawings of the Official Participant's Pavilion water supply and sewage, automatic fire suppression systems shall be developed with assurance of integration (coordination) with the Facility's existing systems and include, but not be limited to, the following:

- The Official Participant's Pavilion plan(s) at a scale of 1:100 or larger (including places of sanitary installations, all the pipelines and connection points to the Exhibition Organizer utility system);
- Water supply diagram of the Official Participant's Pavilion with internal distribution along the Pavilion;
- Sewage diagram in the Official Participant's Pavilion;
- Diagram of automatic water-based fire suppression;
- Equipment and materials' data sheets;
- Information shall be sufficiently detailed to allow complete understanding of the works proposed;
- Material Data Sheets of electrical installations ordering (if required).

Heating, Ventilation, and Air Conditioning (HVAC):

Drawings of the Official Participant's Pavilion heating, ventilation and air conditioning system shall be developed with assurance of integration (coordination) with the Facility's existing systems and include, but are not limited to, the following:

- General requirements for HVAC section;
- The Official Participant's Pavilion plans at a scale of 1:100 or larger (including places of equipment installation, all the air ducts and connection points to the Exhibition Organizer utility systems);
- Heating, ventilation and air conditioning system control circuit;
- Equipment list;
- Equipment and materials' data sheets;
- Detailed data on proposed fastening of all the equipment to the building frame;
- Detailed data required for full understanding of upgrades being proposed;
- HVAC systems load calculation.

2.2.3.4. UTILITY SYSTEMS' AUTOMATIC EQUIPMENT.

Drawings of the Official Participant's Pavilion utility systems' automatic equipment system shall be developed with assurance of integration (coordination) with the Facility existing systems and include, but not be limited to, the following:

- Explanatory Note;
- List of drawings and documents;
- Single line, interconnection, and axonometric diagrams of the Pavilion's utility systems' automatic systems (if any) and the developed local Pavilion's automatic equipment diagram with the possibility of integration with the Facility automatic equipment;
- Equipment (air conditioner, water heater etc.) and utility lines' layout plans;
- Equipment data sheet (specifying performance parameters and capabilities);
- Main exhibition equipment layout plans;
- Data sheet and basic parameters of main exhibition equipment.

2.3. PROCESS OF DRAWINGS' REVIEW BY THE EXHIBITION ORGANIZER.

2.3.1 PROCEDURE OF DRAWINGS' SUBMISSION FOR REVIEW.

The Official Participant shall undertake to submit for the Technical Office's approval, prior to construction and installation commencement, the shop drawings showing clearly the total amount of the Official Participant's works.

The Design and Construction Operations Coordinator controls the review of shop drawings submitted by the Official Participant at the Technical Office, and also the review by municipal authorities for compliance with fire, environmental, sanitary and radiological safety.

Any amendments to the documentation prescribed by municipal authorities shall be submitted to the Exhibition Organizer for final approval.

All the construction and finishing materials and equipment shall be accompanied with fire safety certificates.

The Pavilion's shop drawings shall be handed over to the Exhibition Organizer in 3 hard copies and on electronic media (CD). The drawings shall be submitted in AutoCAD format, pictures - in JPEG or PDF format, text documents - in PDF or Word. The documents shall be executed, signed, grouped and indexed in accordance with the requirements of paragraph 2.1 of the guidelines. The Design and Construction Operations Coordinator is entitled to reject shop drawings that do not comply with the requirements set forth in the guidelines. The shop drawings shall be submitted in Russian for approval. Approval by governmental authorities shall be carried out via the Technical Office.

2.3.2 REVIEW AND COMMENTS.

Upon submission by the Official Participant of the Pavilion's shop drawings, the Design and Construction Operations Coordinator shall return to the Official Participant 1 (one) copy of shop drawings signed "Reviewed - without comments", "Rejected", or "Reviewed - with comments" with comments and observations attached. Terms of review including issuance of reviewing result by the Exhibition Organizer shall not exceed 7 (seven) working days from the date of shop drawings' official receipt from the Official Participant.

The rejected Official Participant Pavilion's shop drawings shall be brought into compliance with the guidelines requirements and comments officially stated. Term of comments' implementation and re-submission for approval shall not exceed 3 (three) working days from the date of rejected shop drawings' receipt.

2.3.3 CORRECTION OF PAVILION DESIGNS.

The Official Participant shall, at its expense, amend the shop drawings with due account for the Design and Construction Operations Coordinator's comments and observations (if any) and submit the copies of improved shop drawings in accordance with sub-paragraph 2.3.2 of the guidelines.

2.3.4 APPROVAL OF ADOPTED DESIGN SOLUTIONS.

Shop drawings signed "Reviewed - without comments", or improved shop drawings, in which the revealed comments were implemented, shall, solely at the discretion of the Design and Construction Operations Coordinator, be signed by the Design and Construction Operations Coordinator.

Here, the Official Participant possessing the drawings signed by the Design and Construction Operations Coordinator will regard such drawings as "Approved design solutions".

Review of the Official Participant's Pavilion Design by the Design and Construction Operations Coordinator shall not be regarded as guarantee from the Exhibition Organizer that the Official Participant's Pavilion Design complies with all the requirements of legislation. The Official Participant shall be responsible for fulfilment of these requirements. Acceptance of the Pavilion Design and/or signing of shop drawings shall not mean that the Design and Construction Operations Coordinator, or his architect, assumes responsibility for the Official Participant's Pavilion Design or shop drawings' accuracy and sufficiency, or for their compliance with the Contract terms and conditions. The Official Participant shall bear sole responsibility for all these issues.

2.3.5 APPROVAL OF PAVILION DESIGN.

The Official Participant's Pavilion Design shall compulsorily be approved by the corresponding governmental authorities in accordance with sub-paragraph 2.3.1 of the guidelines.

2.3.6 AMENDMENT TO APPROVED DESIGN SOLUTIONS.

Any amendments to the approved design solutions requested by the relevant governmental authorities shall be submitted for review of the Design and Construction Operations Coordinator.

3. ARCHITECTURAL SOLUTIONS

3.1. GENERAL REQUIREMENTS FOR MATERIALS USED IN FINISHING THE PAVILION.

Exhibition premises will be handed over to the Official Participants with shell & core fit-out for interior construction and installation. Here, fireproofing coating of metal framing will be ensured. Materials being used by the Official Participants for their Pavilion including exposition displays shall be of high quality, durable, efficient, easily installable, and energy saving.

Finishing materials shall comply with the requirements of relevant standards and codes of design, construction and fire safety by aesthetic properties, environmental compatibility, fire resistance, and reliability.

3.1.1. RECOMMENDED FINISHING MATERIALS.

During development of the Pavilion Design, the Official Participant shall ensure use of materials, goods, work methods which are the least harmful for human health and safety.

Construction materials and structures planned for use shall be safe, with unexpired shelf life, undamaged package and packing (in accordance with the requirements of regulatory documents), and a full set of operating documentation. Construction materials and items shall have accompanying documentation (guidelines for use, quality certificate, compliance certificate, compliance declaration, engineering or regulatory documentation etc.) required to assess possible risks of harm (to life, health of humans and animals, to property and environment) and to take appropriate safety actions.

The list of construction products, for which the safety requirements shall be established, is given in Annex 1 to the guidelines.

3.1.2. PROHIBITED FINISHING MATERIALS.

Implementation of construction products (materials, items, structures) subject to compulsory confirmation shall be prohibited without passing of compliance confirmation procedures.

Use of construction products (materials, goods, structures) shall be prohibited in cases specified in sub-paragraph 3.1.1.

Use of materials or goods that are or could be classified by the requirements of international and local standards as prohibited and dangerous for human health shall not be allowed. If the Official Participant has doubts concerning classification of a certain material, it shall request the Exhibition Organizer in writing and shall not use this certain material until receipt of the Exhibition Organizer's written instructions.

3.2. REQUIREMENTS FOR THE PAVILION'S FAÇADE.

Glass façades shall be provided for as the Facility's building envelope.

Façades shall be designed with due account for energy-saving orientation with respect to cardinal directions as follows: northern walls - right angle of glazing, western/eastern walls - 80 degrees, southern walls - 75 degrees.

To identify each Official Participant, additional structures can be installed on the Facility façades, e.g. interactive LED display screens, and other materials for the Official Participant Pavilion's branding. Design and configuration of the Official Participant's Pavilion's façade branding shall be preliminarily approved during review of the Official Participant Pavilion Design. No branding of the Official Participant's Pavilion's façade shall be allowed without approval by the Design and Construction Operations Coordinator.

The Facility's façade envelopes are divided by configuration into two types:

1) Façade from the side of main (front) boulevard (from the side of themed pavilions).



Figure 6: Fragment of the Facility façade design from the side of EXPO boulevard.

This façade design is of glass and has fastening corbels in its frame located in connection junctions.

A fastening corbel is a metal rod perpendicular to the façade plane with mounting holes on its ends. Fastening corbels' length and layout is given below.

The Facility façade from the side of main (front) boulevard is intended for Official Participants' identification.

Distribution of the façade area from the boulevard's side will be equal for all Official Participants located at the Facility, and arranged along the entire vertical length of the façade. The façade height from the boulevard's side shall be $H=8$ m.

The lower edge of the signboard on façades from the boulevard side shall be 300 mm above the floor (boulevard) level.

2) Lateral and non-front (rear) façades of the Facility.



Figure 7: Fragment of lateral and non-front (rear) façades of the Facility.

The Facility façades of such (cascade) configuration are bearing, the branding or construction of additional structures by Official Participants from external (front) side shall be prohibited.

3) The Facility internal façade (atrium part).

The walls are made of gypsum board structure up to the balcony lower elevation. The internal façade of gypsum board will be allocated with shell & core fit-out to Official Participants for further decoration by Official Participants.

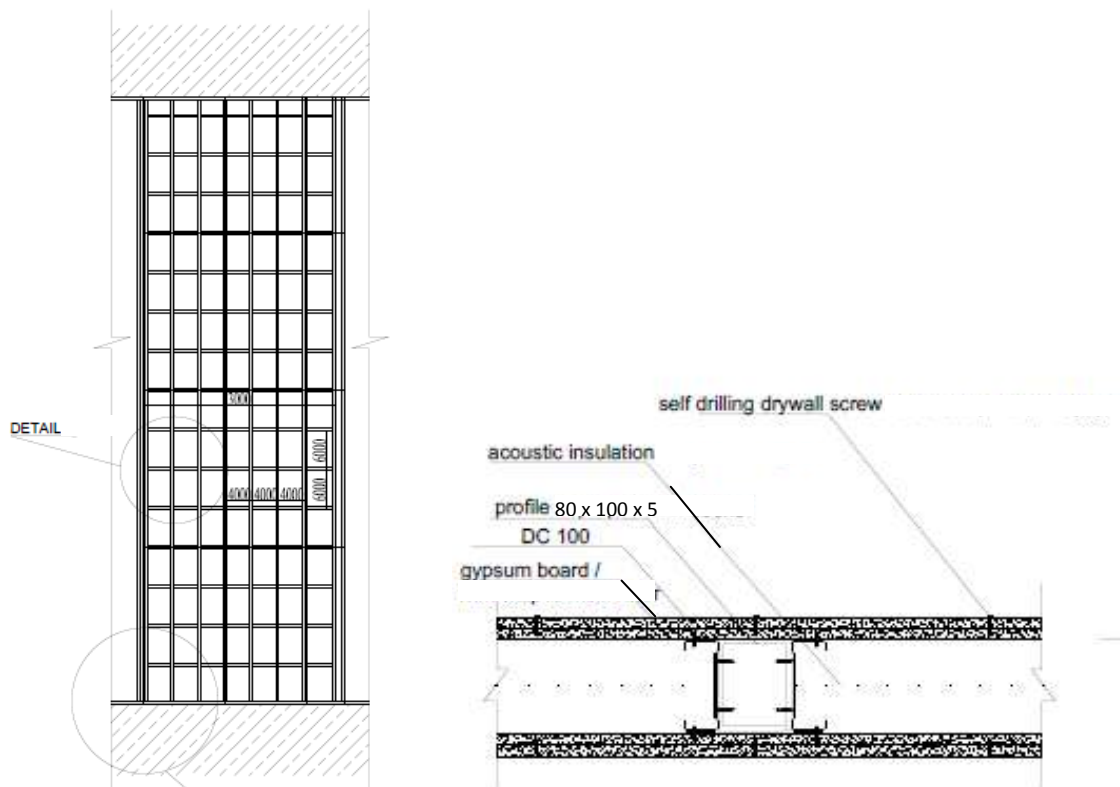


Figure 8: Diagram and cross-section of internal façade (atrium) of gypsum board.

Internal façade (atrium) walls will have door openings. Door opening parameters: height $H=3.0$ m, width $B=2.4$ m.

In case the Facility's façade glass is broken, the Exhibition Organizer will present an invoice for glass restoration according to the actual purchase value of material and labour.

3.3. REQUIREMENTS FOR THE PAVILION'S INTERIOR WALLS.

Upon determination and approval of the area taken by Official Participants, the Organizer will build full-height ($H=8$ m) partitions between Official Participants' Pavilions inside the U-shaped Facilities in order to ensure acoustic comfort for each Official Participant. Design and engineering parameters of partitions are similar to those for the internal façade (atrium zone) gypsum board walls.

When designing the partitions inside the Official Participant's Pavilion, the Official Participant shall take into account the presence of the Facility's floor heating system and convector heating pipelines' distribution (1st and 2nd floors) in the Facility floor structure.

The dimensions of the occupied floor area are 3.0 m from the Facility façade envelope inwards of the area along the perimeter of each Facility. The floor heating contour and scheme is described in detail in the "Heating" section.

To eliminate the possibility of damage to the Facility floor heating, all works related to the installation of floor fastenings that damage the Facility floor structure (partitions, laying mains and utility lines, fixing exhibit expositions etc.) must be taken into account during the design and construction of the Official Participants' Pavilions.

3.4. REQUIREMENTS FOR PAVILION'S SIGNBOARDS ON FAÇADE AND OUTSIDE WALLS.

Signboards and any parts thereof on the exhibition Pavilion's façade shall be located within the physical boundaries of the Official Participant's Pavilion's façade. No signboard and parts thereof shall extend beyond the structure of the Exhibition Organizer's Facility. However, the Exhibition Organizer can, in individual cases and solely at its discretion, permit the use of elements overlapping the Exhibition Organizer's structure if the design proposed is of outstanding quality and the decision is made that it would improve the general impression of the exhibition pavilion.

Shop drawings of governmental, company marks and signboards shall be submitted for review prior to their manufacture and installation. Samples of all the finishing materials shall be submitted for review at the Design and Construction Operations Coordinator's demand.

Requirements for façade from the side of the EXPO boulevard.

For branding of the façade walls from EXPO boulevard side and internal façade in the atrium zone, the Exhibition Organizer has provided for the structures below to facilitate further works on the Official Participant's Pavilion's façades' installation.

Along the façade from the EXPO boulevard side, fasteners are provided for in the Facility façade structure which allow for the further construction of the Official Participant Pavilion's temporary wall frame. The Official Participant's Pavilion's temporary wall will serve as the platform for placing signboards, banners and other attachments for identification of the Official Participant's Pavilion.

Fasteners have been designed to fix the additional frame on them, which will serve as the frame for the trunking wall for the further placement of banners or installation of interactive equipment (LED display etc.) of Official Participants.

The frame for placing banners or other materials identifying the Official Participants shall be arranged at the Official Participant's expense.

Placing a signboard onto the Facility glass façade without an additional frame shall be prohibited.

The load-bearing capacity of the additional frame of vertical loads shall be calculated by the Official Participant. Fasteners mounted on the Facility façade shall be designed for vertical loads of up to 50 kg and horizontal loads of up to 150 kg.

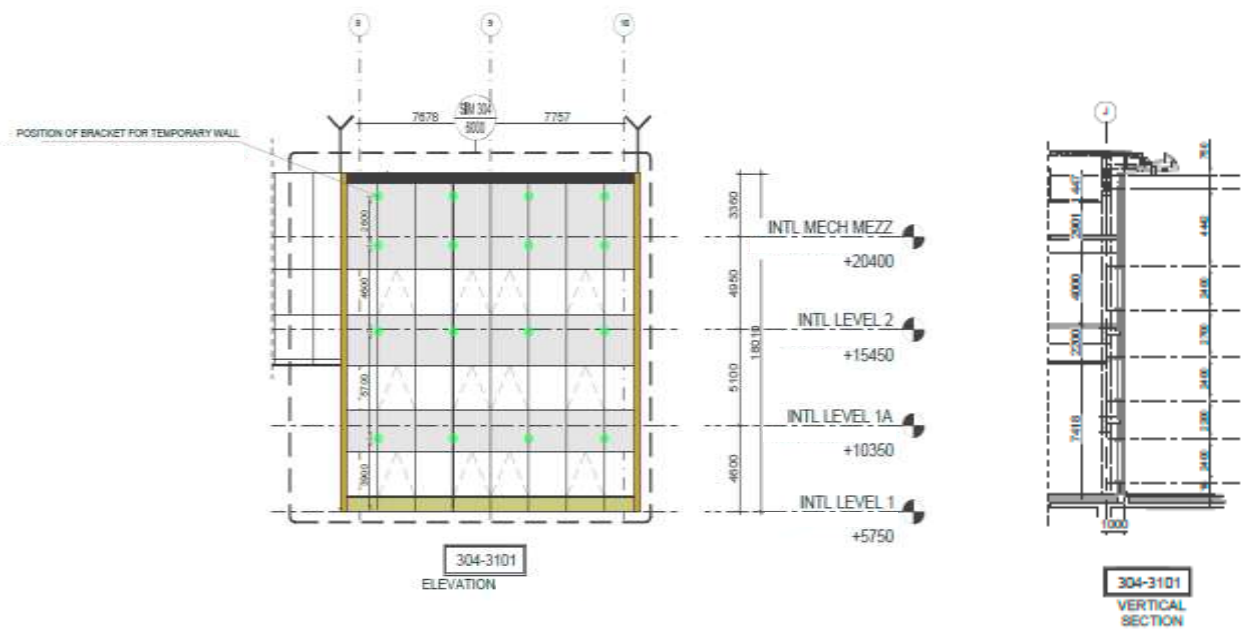


Figure 9: Fragment of the Facility façade from the EXPO boulevard side with fasteners.

Fastening corbel length is $L=1.0$ m. Fastening corbel material is stainless steel 8 mm thick. Distance (gap) between the Facility façade and the Official Participant’s additional façade shall be 0.8 m. Façade height from the boulevard side shall be $H=18.0$ m.

During the design and construction of additional structures, protection against breakage of the Facility façade glass shall be provided for. In case the Facility’s façade glass is broken, the Exhibition Organizer will present an invoice for glass restoration according to the actual purchase value of material and labour.

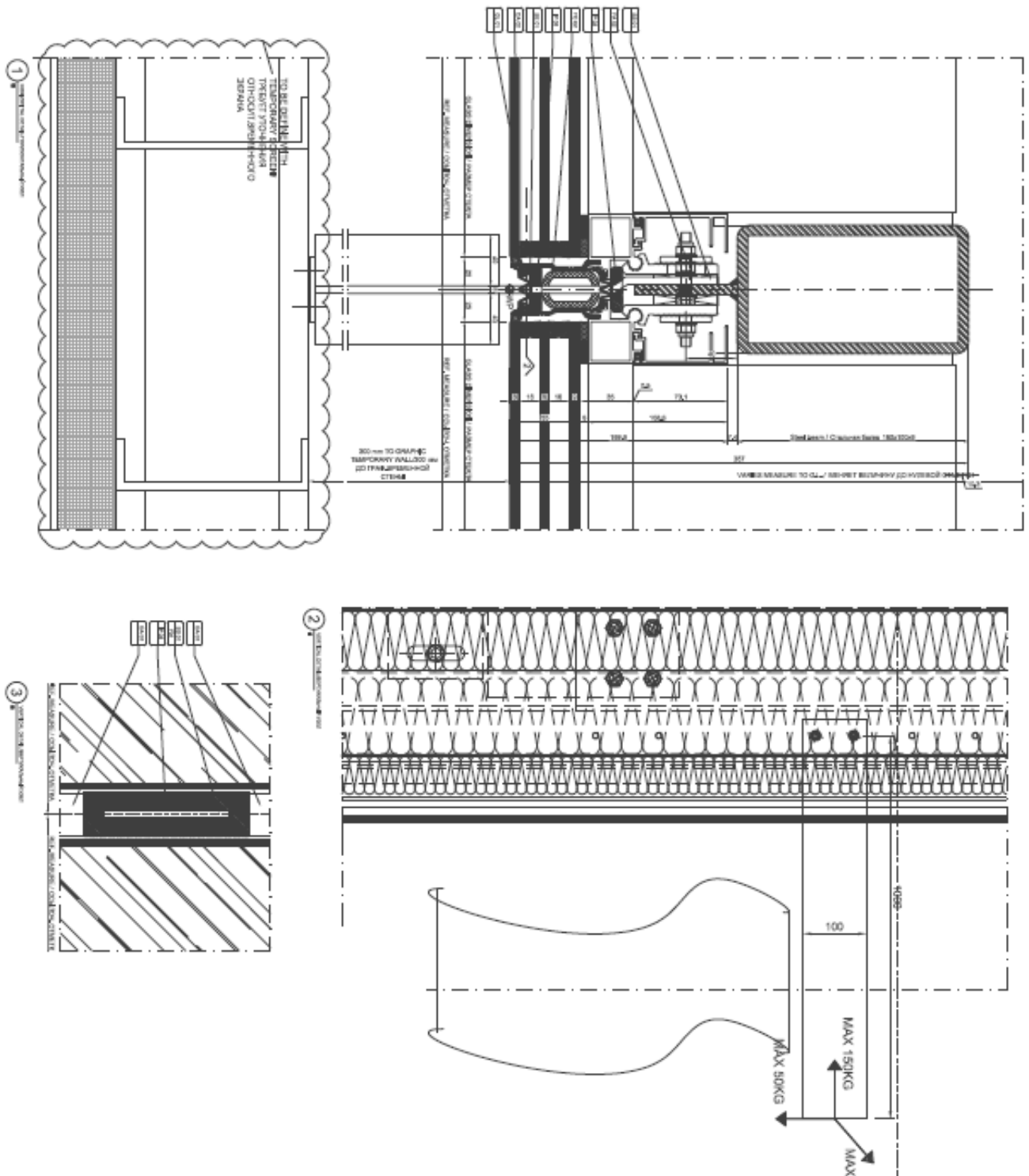


Figure 10: Cross-section of fastener attachment to the Facility façade.

Details of the Official Participant's Pavilion facades' finishing shall be at a scale of 1:100 and show detailed data sufficient to identify the manufacturing and installation techniques.



Figure 11. Fragment of façade from EXPO boulevard side H=18.0 m high.

The Facility façades from the EXPO boulevard side will be divided into segments equal in area according to the number of countries at the Facility for the total height of the façade.

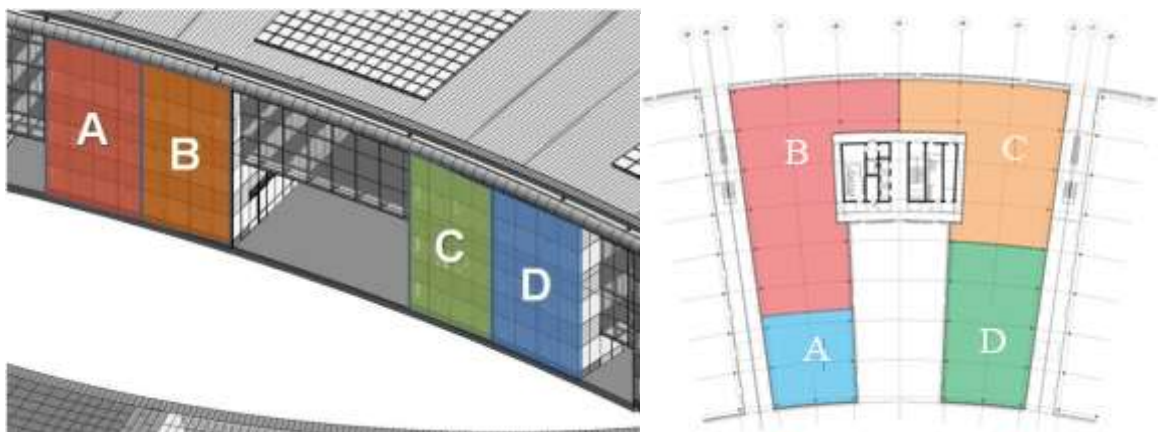


Figure 12: Chart of façade area distribution from the boulevard's side.

In addition to façades from the boulevard side, the Exhibition Organizer will provide for brackets to hang the Official Participant's state flag for Official Participants' branding. Requirements for the state flag parameters will be the same for all the Official Participants.
Requirements for internal façade in atrium zone.

The walls are made of gypsum board structure up to the balcony lower elevation. The internal façade of gypsum board will be allocated with shell & core fit-out to Official Participants for further decoration by Official Participants.

The Facility's internal façade of gypsum boards (atrium zone) provides for the possibility to use mounting systems such as: screens, monitors, placards, banners etc.

The permissible cantilever load for internal façade walls (150 mm thick) shall be 70 kg/r.m. Loads weighing up to 70 kg per 1 running meter along the partition length with suspended load height exceeding 30 cm and width (eccentricity relative to the partition) of less than 60 cm can be hung on any wall part. In doing so, the spacing between dowels shall exceed 75 mm. Such loads must be fastened with at least two dowels for hollow plastic or metal structures.

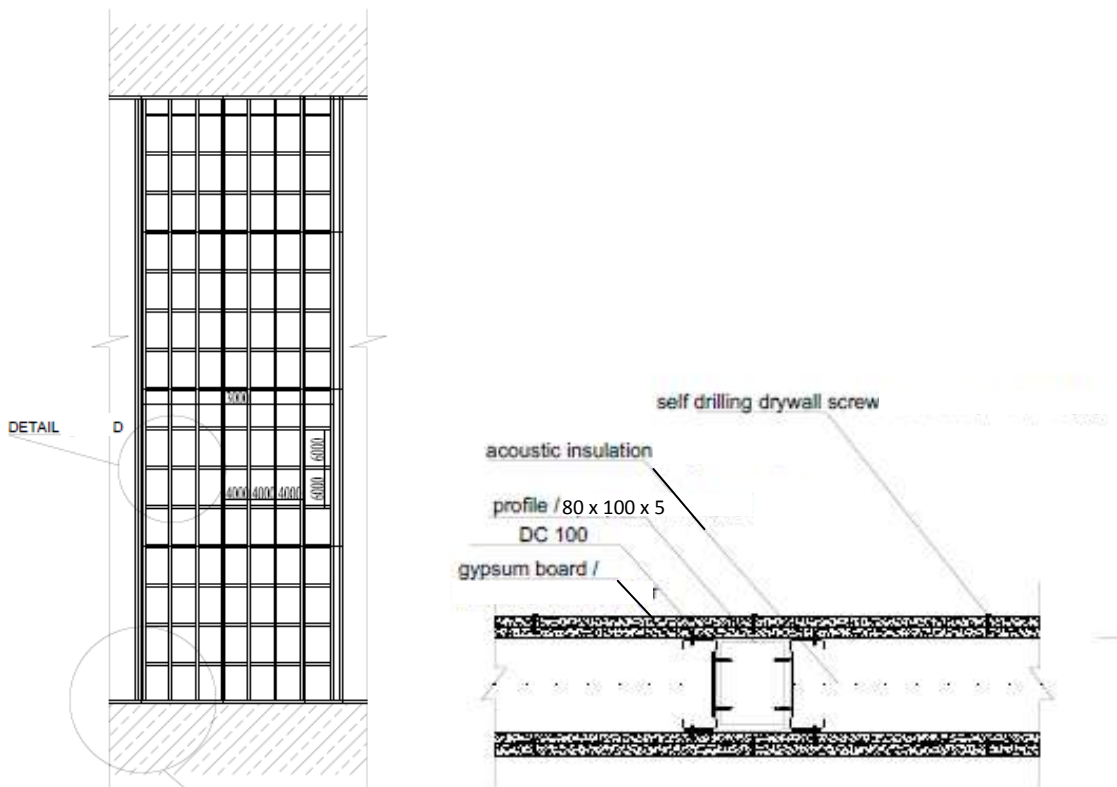


Figure 13: Diagram and cross-section of internal façade (atrium) of gypsum board.

The maximum gap between advertising structures from the internal façade (atrium zone) gypsum board walls shall not exceed 50 cm. When joining façade structures with structures of another Official Participant, the smooth transition of structures' joints between different pavilions shall be fulfilled.

Regarding the cantilever load, it is possible to reinforce the area by installing additional traverses.

All requests concerning façades shall be submitted to the Exhibition Organizer for approval in the form of proposals prior to making shop drawings by the Official Participant. The exhibition Organizer shall reserve the right to accept or to reject any design solution proposed by the Official Participant.

The installation of placards and banners is also possible at an elevation of 8.5 metres in the balcony zone of the 2nd floor. Figure 14 shows a sample of internal façade finishing up to a height of H=9.8 m.

All façade structures requiring structural supports including door sliding rails, roller shutter drums, show case glazing fixing structures shall have supports independent of the building structure.



Figure 14. Fragment of internal façade (atrium) finishing H=9.8 m high.

3.5. REQUIREMENTS FOR CEILINGS.

The Exhibition Organizer shall guarantee to the Official Participant the possibility to use counter ceilings at a height of 3,000-7,000 mm from the floor level.

The Exhibition Organizer shall provide the Official Participant with the plan showing the layout of fire alarm sensors, loud speakers, sprinklers, burglar alarm transmitters, and video surveillance cameras. The Official Participant shall design the project of ceilings in accordance with the plan provided by the Exhibition Organizer and have it approved by the Design and Construction Operations Coordinator.

All expenses related to the disturbance of uninterrupted operation of the Facility utility systems and alarm during ceiling arrangement shall be borne by the Official Participant. Here, the Official Participant must restore uninterrupted operation (operability) of the disturbed system inside the Official Participant' Pavilion. All such works related to central utility systems and lines ensuring the Facility general comfort and safety shall be carried out in presence of the Exhibition Organizer's person in charge.

3.6. REQUIREMENTS FOR FLOORS.

Floors inside the exhibition pavilion need not compulsorily match the Facility floor (floor covering). The Official Participant can select the floor material and design corresponding with the exhibition pavilion's design.

During engineering, the smooth transition from the Official Participant's space to the Exhibition Organizer's space (common halls, galleries) at one elevation shall be ensured.

The whole frame and decking used to create platforms shall be of non-combustible materials. Platforms shall sustain the specified operating loads determined by construction standards in accordance with the platforms' purpose. The platform floor shall be covered with an acceptable finishing material, the floor material on escape paths shall be of flame-retardant and non-slip material.

All the floor finishing types used shall interlink on one level to avoid danger (stumbling or tripping) for visitors; for transition from carpeting to solid floor covering materials, specially manufactured wear-resistant transition patches shall be used.

Use of uncoated electric conductors shall be prohibited. Electric wires including low-current ones may not be laid over the coating or under the floor.

The carpeting shall be designed for intensive operating loads.

The Facility floor elevations are:

- +5,750 mm - the Exhibition Organizer floor level;
- +5,700 mm - the Official Participant floor level.

The Facility floor covering:

- for public rooms (atrium zone) - granite covering (+5,750 mm);
- in Official Participants' Pavilions - epoxy covering (+5,700 mm).

Waterproofing of floors is required in cooking zones, technical rooms, lavatories, washing rooms, and in any other space where water can come into contact with the floor.

The Official Participant shall carry out works on waterproofing with due account for the Exhibition Organizer's requirements, and all the drains in floor, cleanout doors etc. must be equipped with waterproofing and flanges protruding over the drain boundaries at least 250 mm in all directions. Any holes in the floor shall be correspondingly plugged with an impermeable joint with a waterproofing membrane and filled with a flame-resistant compound.

3.7. REQUIREMENTS FOR THE STRUCTURE.

The Exhibition Organizer's structures:

The permissible load for a single-piece ceiling slab (floor of the 1st and the 2nd floor) is $P=10$ kN/m².

When constructing the mezzanine, the load shall be calculated within maximum permissible floor load (10 kN/m²).

Here, it is permitted that the mezzanine be developed and placed at a maximum 40% of total area allotted for the Official Participant.

The vertical load on the Facility frame structures shall only be allowed onto carrying beams up to 3 kN per structure. When the suspension of any exposition is inevitable, it must be pre-agreed by the Exhibition Organizer during the engineering of the Official Participant's

Pavilion.

All columns in the Official Participant's exhibition pavilion shall be coated and finished with wear-resistant materials. The presence of structural elements without finishing shall be inadmissible except for cases when it was specifically permitted by the Exhibition Organizer.

3.8. REQUIREMENTS FOR INTERIOR DECORATION.

Exhibition premises will be handed over to the Official Participants with shell & core fit-out for interior construction and installation. Here, fireproofing coating of metal framing will be ensured. Materials used by the Official Participants to finish walls and floors shall comply with the requirements of the relevant design, construction and fire safety standards and codes in terms of aesthetic properties, environmental compatibility, safety and resistance.

The Facility's communal spaces will be finished. Corridors, staircases, water closets, technical and auxiliary rooms will be finished with high-quality materials in accordance with Class A exhibition building standards.

3.9. REQUIREMENTS FOR PAVILION LAYOUT.

During the design of the layout structure of the pavilion's exposition rooms by the Official Participant, the capacity, time of waiting in line, comfort of visitors' stay, and other indicators based upon experience of international exhibitions' conduct shall be taken into account.

As part of the Pavilion Design, the Official Participant shall submit a rough estimate on the capacity including maximum one-time capacity on peak and average days of the Exhibition.

No objects and other accessories of the Official Participant's Pavilion may be placed on escape routes.

3.10. DOORS AND OPENINGS

Shutters or sliding grills may be installed on door openings. Here, the solutions and materials proposed must be agreed by the Exhibition Organizer.

No locking devices or attachments such as chains, padlocks, shut-off cables etc. may be placed except for cases when these are installed by the Exhibition Organizer.

Back doors to the service corridor shall be installed by the Exhibition Organizer, no additional doors may be installed without the Exhibition Organizer's prior written consent in order to avoid obstructions in service corridors; all additional doors shall be installed in additionally equipped niches or be opened to the Official Participant's Pavilion if permitted by fire safety standards.

No objects or other accessories may be placed on escape routes of the Official Participant's pavilion.

4. UTILITY SYSTEMS

4.1. POWER SUPPLY AND LIGHTING SYSTEM.

Power supply

All the electric engineering equipment of the Official Participant regardless of whether it belongs to a new system or is the part of existing electric system shall meet the criteria below.

The Exhibition Organizer shall lay a power supply grid with the installation of an electrical switchboard (room) to the Official Participant's Pavilion.

The Organizer shall provide for the laying of cable line of 0.4 kV from the floor switchboard in which the Official Participant's power supply meter of non-combustible and low gas and smoke emitting vinyl cable with copper wires is installed. Cable line shall be laid to the switchboard installed by the Organizer, which contains an incoming automatic circuit breaker.

Laying cable line shall be provided for with due account for the Facility's existing cable chutes.

All works on power supply inside the Pavilion shall be carried out at the Official Participant's expense. All wires shall be of copper and insulated, and installed in tubular cable ducts and be colour coded. All wiring and cable ducts shall be hidden.



Figure 15: Official Participant switchboard (1-ShchR 15/3, 15/1) rough layout.

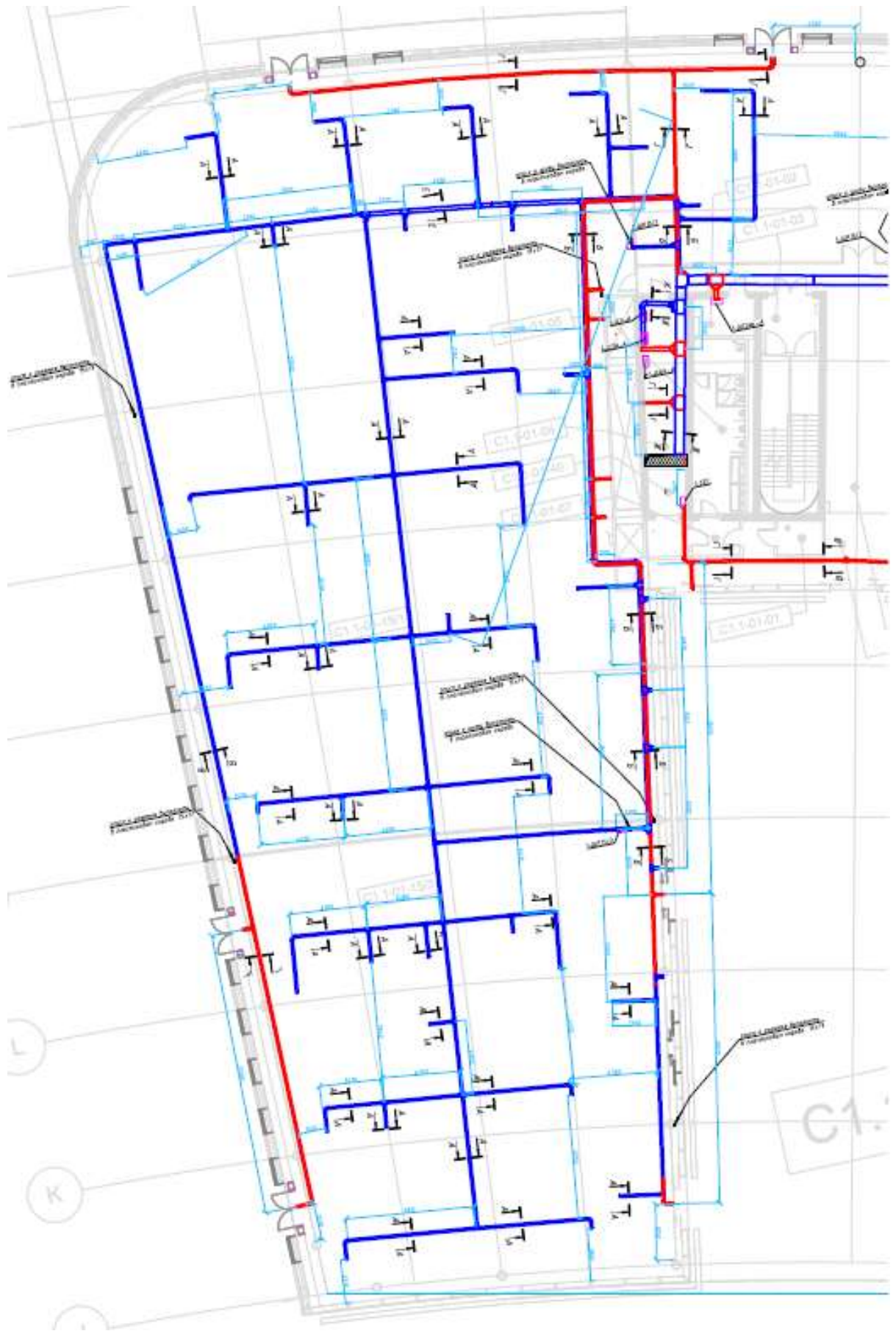


Figure 16: Rough layout of cable chutes in the Official Participant's Pavilion ceiling space.

LIGHTING

The Exhibition Organizer has provided for the lighting of public spaces (halls, lobby, staircases etc.).

For Official Participants, temporary lighting is provided for the deployment period to carry out construction operations; in case of insufficient lighting, the Official Participant shall independently and at its expense arrange lighting within its area for the period of construction.

During the design of the Pavilion's permanent lighting, including decorative and architectural lighting, the Official Participant shall undertake to use energy-saving type lights and lighting fixtures.

High-intensity lamps (mercury arc-discharge lamps etc.) may not be used.

In public and exhibition zones of the Official Participant's Pavilion, all lights except for decorative ones shall be built-in.

Uncovered incandescent lamps (without a plafond) may not be used.

The lighting and illumination of façades and exposition shall have a light dimmer switch. Separate circuits must be provided for the lighting appliances' power supply.

Lights with uncovered neon lamps (tubes) may not be used.

EMERGENCY LIGHTING

The Official Participants shall ensure emergency lighting with a back-up power supply from an integrated accumulator in the Pavilion's exhibition zone, in service rooms and on escape routes from the Pavilion.

The Official Participant shall provide for the presence of one after-hours light located in the centre of the area. If the area exceeds 200 sq.m., one light per 200 sq.m. must be provided for. The after-hours light shall be part of a separate circuit and connected to the Official Participant's meter.

LIGHTING WITH INCANDESCENT LAMPS

Lighting in the Pavilion's exposition zone is made with incandescent lamps in the form of built-in or track lighting systems. Unless otherwise agreed with the Exhibition Organizer, floor lamps are not allowed.

To intensify the accent on the exposition, it is recommended that low-voltage lighting with built-in lights or surface-mounted track lighting systems be used.

LIGHTING WITH FLUORESCENT LAMPS

Fluorescent lights with completely uncovered lamps may not be used in the Pavilion's visitor zone.

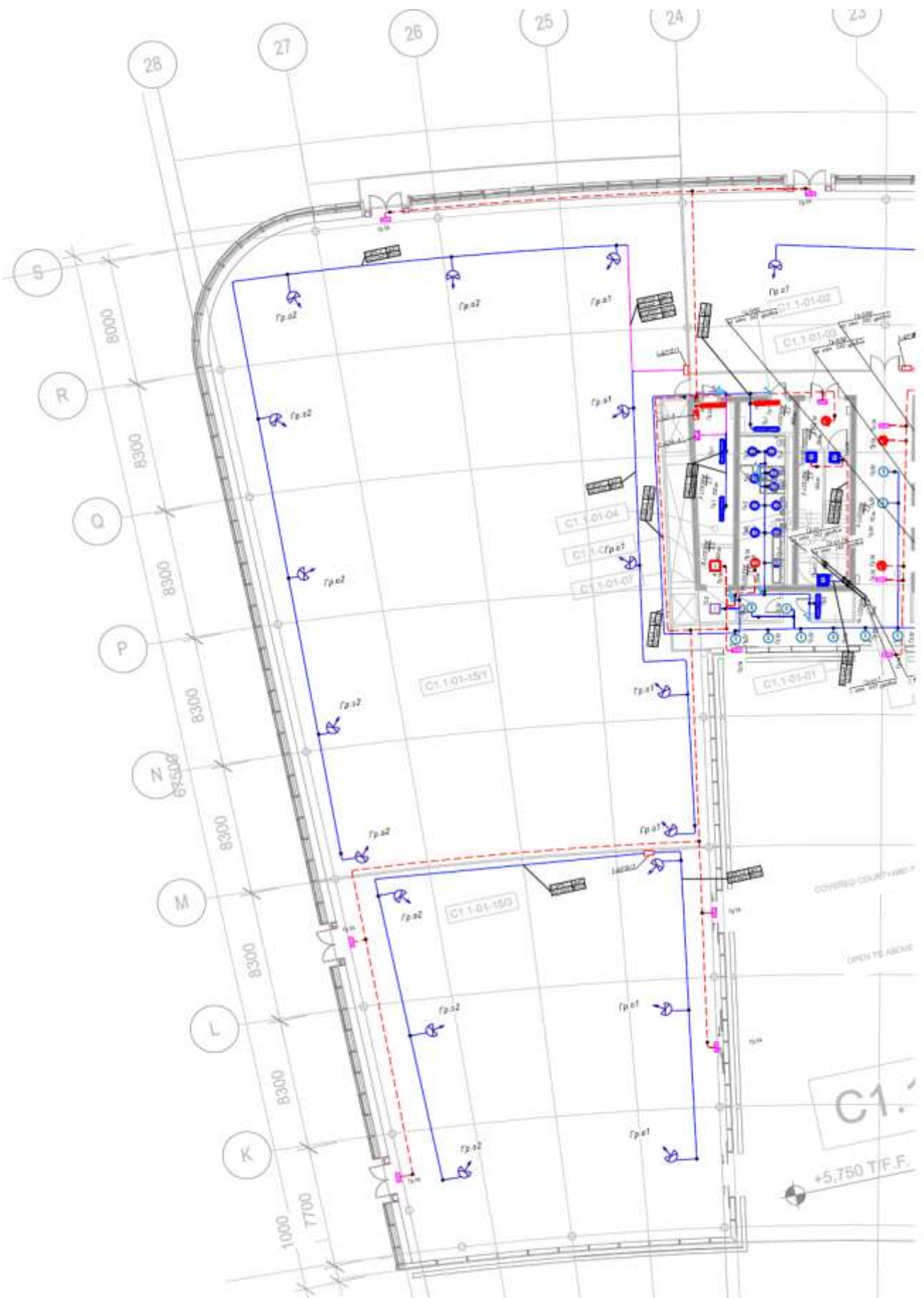


Figure 17: Rough plan of the Official Participants' Pavilions after-hours lighting for the period of deployment and construction.

4.2. PROCESS EQUIPMENT

The Official Participant must install the process equipment provided for by the Pavilion Design and agreed by the Exhibition Organizer.

Quantity, quality, layout, details and trimming (as required) of all the process equipment must be shown on the Official Participant's drawings.

4.3. LOW-CURRENT SYSTEM AND BURGLAR ALARM.

Low-current systems are used by the Exhibition Organizer in the Facility include automated fire and burglar alarm systems, warning and evacuation systems, structured cable system (telephony, wired Internet), video surveillance system, wireless Internet system, Facility utilities monitoring and control system, access control system etc.

The Organizer's common automatic fire and burglar alarm system is made based upon BOSCH system. In the Facility's 1st floor rooms, linear smoke detectors are installed at a height of 8.0 m, in the 2nd floor rooms, optical smoke detectors are installed at a height of 3.0 m from the floor level.

During the design of individual rooms, ceilings and mezzanines in the Pavilions, the Official Participant shall take into account the presence of an operational voice warning system, and automatic fire and burglar system.

In case of a loss of integrity and continuity of the Exhibition Organizer's voice warning system or the automatic fire and burglar system, the Official Participant must equip its Pavilion with an automatic fire alarm and warning system and these must be provided for in the Pavilion Design.

When designing the Pavilion's local voice warning system and the automatic fire and burglar alarm system, the Official Participants' system must be integrated into the Facility's general fire alarm system.

All cable lines in all zones of the Official Participant Pavilion's area shall be made of PVC, HDPE, metal tubes, hidden and be laid along the shortest feasible paths between starting and ending points. All tubes must be properly fixed. Flame-retardant cable shall be used.

Tubes shall be installed in parallel to horizontal and vertical lines of walls, ceilings and floors. On turns, it is permitted that tubes bend at an angle of 90° or 45° or standard dedicated fittings be used. All cable terminations and wiring shall be carried out in electrical switch boxes. Uncovered cable chutes may only be installed in a ceiling void or in a single-piece wall. During installation of cable-carrying structures in a ceiling void, the layout of main cable chutes must be accounted for.

Access to connection locations, junction boxes must be provided.

All Official Participant's works on installing voice warning network, automatic fire and burglar alarm and other systems which are carried out within the Pavilion shall be at the Official Participant's expense.



Figure 18: Rough plan of the automatic fire alarm detector layout in the Official Participant's Pavilion on the Facility 1st floor.

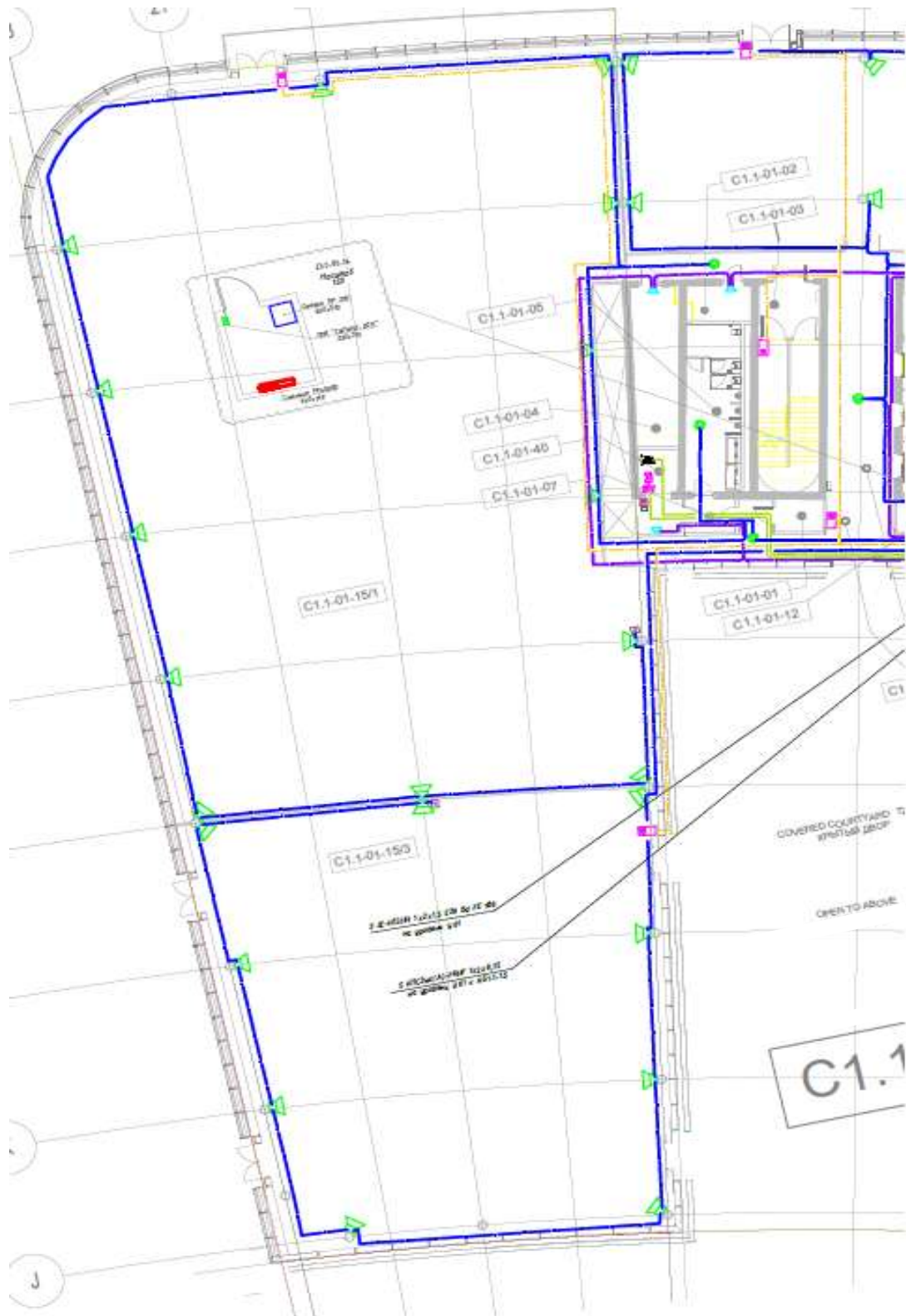


Figure 19: Rough plan of the warning system device layout in the Official Participant's Pavilion on the Facility 1st floor.

TELECOMMUNICATION SYSTEMS

There will be an open WiFi network in operation on the entire territory of the Exhibition for convenient access to the Exhibition's mobile services. Multimedia broadcasts will also be offered via the WiFi network. This service will facilitate the use of wireless TV broadcasting.

As the access point to the Internet, the Exhibition Organizer will allot a connection port in the Pavilion's telecommunication room. To connect to the Internet with guaranteed speed (dedicated channel) or to organize VPN, the Official Participant must contact the Technical Office. This technical capability is provided by the Exhibition Organizer as an additional paid service.

The Exhibition Organizer will install wired telecommunication devices and connection devices right up to the telecommunication room of the first and the second floors.

When the Official Participants need to use telecommunication systems, they, according to the previously approved Pavilion Design, at their own expense and risk, shall install internal telecommunications systems and equipment and other devices in the allotted places except for external devices, including internal transmission via channel and wired connection.

Official Participants must monitor that the telecommunications equipment including wireless or other equipment does not impede the functioning of other equipment or production facilities of the Exhibition Organizer or other Official Participants.

Official Participants may only adjust wireless and fixed communication on plots defined by the Exhibition Organizer.

When wireless network provided by the Supplier is used, the Official Participant shall only use it for personal purposes. Wireless network access may not be used to organize the exhibition space communication services.

4.4. WATER SUPPLY AND SEWAGE SYSTEM

Water Supply

The Exhibition Organizer shall lay a cold and hot water supply system to the Official Participant's Pavilion with the installation of water metering units. The cost of a water meter shall be taken from the Official Participant.

The Official Participant Pavilion's water supply system shall meet the criteria below.

Water supply pipes shall be zinc-coated or made of polypropylene. For the hot water supply, polypropylene pipes shall be reinforced.

When designing, it must be taken into account that the water supply in the Official Participant's Pavilion shall only be provided in the kitchen zone, restaurant in lavatory areas.

All isolation valves, mixers and other equipment shall be of high quality and ensure the uninterrupted operation of the water supply system in the Pavilion.

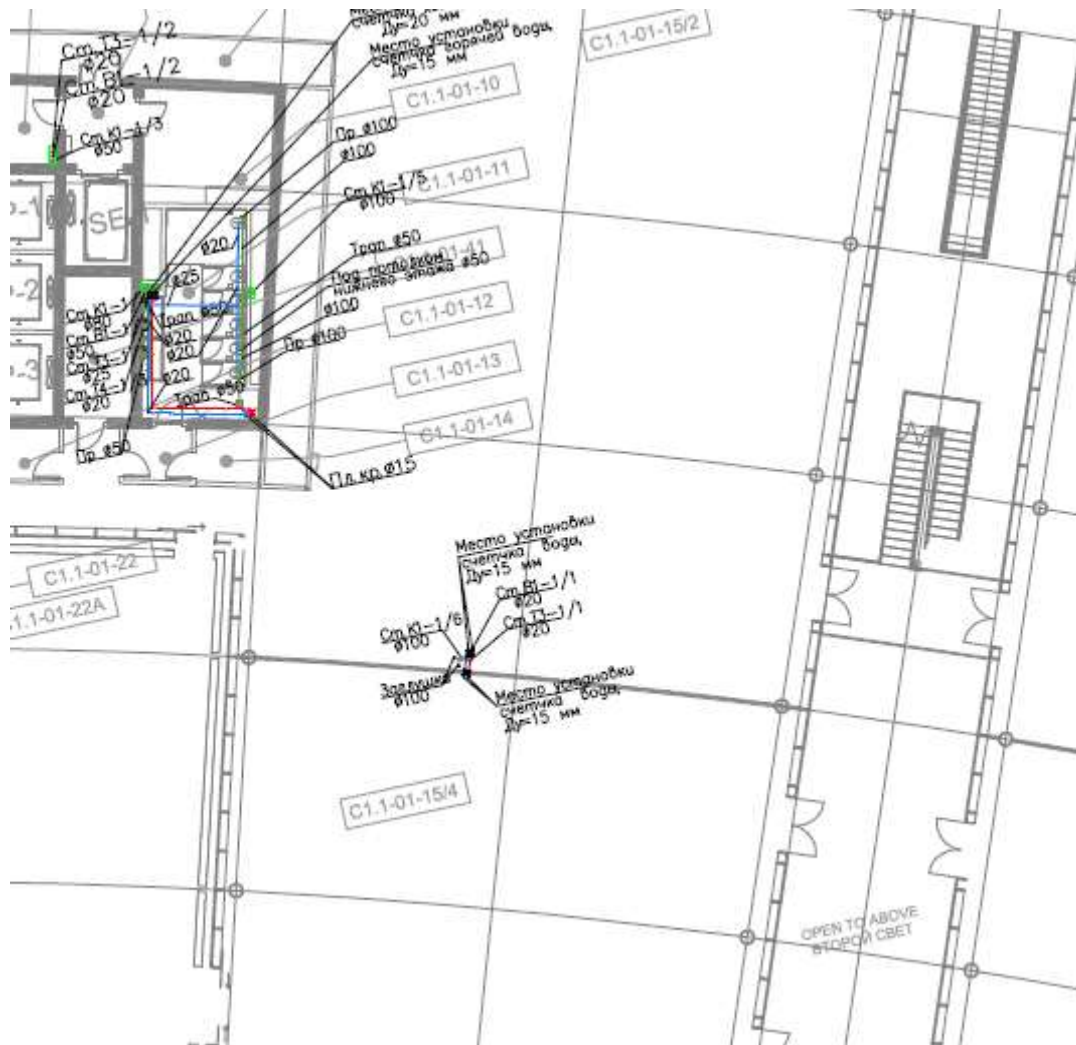


Figure 20: Plan showing the location of water supply entry point into the Official Participant's Pavilion.

Relocation of rooms from the connection point to the Exhibition Organizer's water supply system must be approved as part of the Pavilion Design.

All works, materials and equipment related to the installation of the water supply into the rooms inside the Official Participant's Pavilion shall be carried out at the Official Participant's expense.

Sewage system, general requirements.

The Exhibition Organizer shall lay the waste water sewage pipeline to the Official Participant's Pavilion.

The Official Participant Pavilion's waste water sewage system shall meet the criteria below. The Facility shall include a gravity sewage system without grease trap. In the Exhibition Organizer's sewage system, PVC and cast iron pipelines shall be used. PVC pipes with diameter of 100 mm will be laid to the Official Participant's Pavilion. All works, materials and equipment related to the installation of waste water sewage and exhaust ventilation from the rooms inside the Official Participant's Pavilion shall be carried out at the Official Participant's expense.

All valves, mixers and other equipment shall be of high quality and ensure uninterrupted operation of waste water sewage system in the Pavilion.

During the development of the Pavilion Design, the Official Participant shall take into account its personal responsibility to check in-situ all the existing conditions impacting the Official Participant's expected works and to show these conditions in final drawings.

During development of the Pavilion Project's design, the Official Participant shall include all the required (if any) equipment of the water supply line and sewage system in the rooms with due account for the installation of necessary sewage and water supply pipes from the appropriate entry points of the utility systems provided by the Exhibition Organizer, in accordance with Art. 16 of Special Regulations No.10.

Provide for all the necessary sanitary and hygienic equipment in the Pavilion rooms in accordance with the effective standards (as required).

Where such equipment is necessary, the minimum set shall comprise the following: a hand-washing basin, floor drain, sewage pipeline for floor washing and mechanical exhaust ventilation system, lavatory, and bidet.

The location of water closet in the Official Participant's Pavilion must be approved by the Exhibition Organizer. Figure 20 shows the sample of a plan specifying the connection point to the waste water sewage system in the Official Participant's Pavilion.

More specified layout of connection points to the water supply and waste water sewage systems in the Official Participant's Pavilion will be given in the Official Participant Pavilion's Certificate provided by the Exhibition Organizer upon selection and approval of the Official Participant Pavilion's location.

Water closets may not be used by visitors to the Official Participant's Pavilion.

Upon agreement with the Exhibition Organizer, Official Participants can use domestic electric hot water heaters with a thermal relief valve and pressure regulating valve.

Where the repositioning of air conditioners is allowed by the Organizer, the condensate removal lines must be connected to the Exhibition Organizer's waste water removal system.

Domestic Sewage

During the design and equipping of rooms in the Pavilion with a domestic sewage system - a hand-wash basin (individual), water closet, rooms for technical staff, there must be an exhaust ventilation system for such rooms (especially for the water closet).

The Exhibition Organizer shall lay the sewage pipeline to the Official Participant's Pavilion on the Facility's 1st (first) floor where the water closet is to be placed. In case of a change of location, upon approval by the Exhibition Organizer, the aesthetic installation of the water closet exhaust ventilation system air ducts must be provided for. Here, the Exhibition Organizer shall warn of the presence of floor heating in the Facility floor structure. Detailed data on floor heating system is given in the "Heating" section.

On the Facility's 2nd (second) floor, the Organizer shall consider the installation of individual lavatories on a case-by-case basis (where food service outlets are placed). Here, if the Organizer approves the installation of a sewage system in the area of the 2nd (second) floor, the Official Participant shall perform the works independently and at its own expense.

On the 2nd (second) floor, the Exhibition Organizer has provided for lavatories (water closets) to be used by the Official Participants and exhibition personnel.

Kitchen Waste Water Sewage

During the design and equipping of rooms in the Pavilion or outside the Pavilion (on the 2nd floor of the Facility) with a kitchen waste water system from food courts and restaurants, grease traps must be installed in kitchen waste water sewage intended for purification of grease. Grease traps must be located in the sewage system before the connection point to the common sewage system of the Facility.

Where a sewage system has been intended for the removal of kitchen waste water, such sewage systems must be installed and operated with a grease trap.



Figure 21: Plan showing location of waste water sewage supply to the Official Participant's Pavilion.

4.5. HEATING, VENTILATION, AND AIR CONDITIONING.

Heating

The Exhibition Organizer has provided for heating of the Facility's rooms using under-floor heating and air heating by VRV system and plenum ventilation.

Floor heating is installed in the floor structure. Each Official Participant Pavilion has a floor heating system. The floor heating system is water-based. Metal-reinforced plastic pipes are used. This system is located along the perimeter of each of the 14 U-shaped Facilities at a distance of 3.0 m to 3.6 m from the edge of external walls and atrium zone walls. Figure 22 shows the floor heating sketch layout and parameters of the layout in the floor structure.

The Facility heating parameters:

Convactor and floor heating 60 W/m².

VRV system (air heating) 70 W/m².

Plenum ventilation +18 - +20°C.

The Exhibition Organizer shall prohibit the connection of any Official Participant's heating devices and appliances to the existing Facility's water heating system. In case of an accident in the floor heating system during the construction and installation in the Official Participant's Pavilion, all costs related to the incident up to the complete elimination of the accident including any arising consequences shall be borne by the Official Participant.

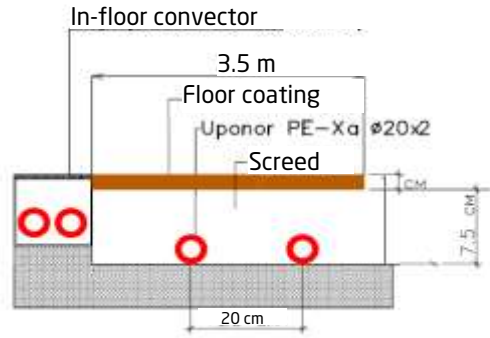
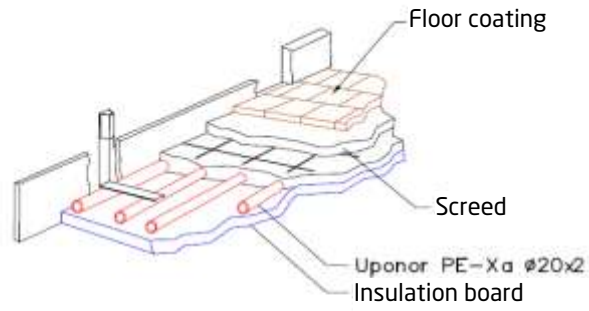


Figure 22: Floor structure cross-section showing floor heating.

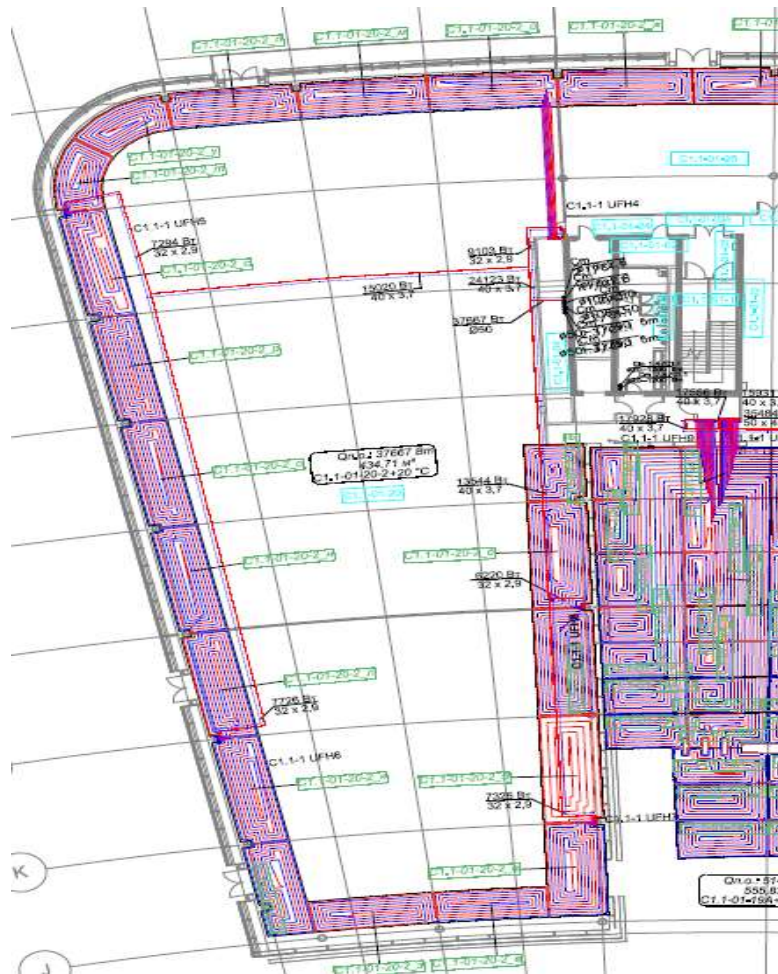


Figure 23: Rough layout of the floor heating in the Facility in the Official Participants' Pavilions.

Ventilation

The Exhibition Organizer has equipped the Facility with a balanced mechanical ventilation system with air heating in the cold season and air cooling in the warm season.

Parameters of the balanced ventilation are as follows:

Plenum ventilation - 265 m³/hour per one grate (diffuser);

Exhaust ventilation - 590 m³/hour per one grate (diffuser).



Figure 24: Rough layout of balanced ventilation channels in the Facility in the Official Participants' Pavilions.

Exhaust ventilation must be installed where kitchen zones and restaurants in the Official Participant's Pavilion on the 1st (first) floor or on the 2nd (second) floor and the water closet on the 1st (first) floor of the Facility are installed.

To install exhaust ventilation from the water closets and kitchen areas (including restaurants), the Exhibition Organizer has provided main vertical (risers) air ducts (channels) with a connection point for the Official Participant's exhaust ventilation system.

Here, to ensure exhaust ventilation from kitchen and restaurant areas (cooker hood above the stove), the Official Participant shall install air ducts from the Official Participant's area to the connection point to the Exhibition Organizer's main channels, install a hood with a chimney valve (mechanically or automatically controlled), grease filter and ventilation equipment (fan). Ventilation equipment parameters in the Pavilion Design shall be assumed on the basis of the kitchen areas of food courts and restaurants. The Official Participant's ventilation equipment shall be installed on the Facility's mechanical floor upon approval by the Exhibition Organizer. Cross-section of air ducts for exhaust ventilation from the food court shall be 200x200 mm.

To arrange exhaust ventilation from water closet, the Official Participant shall install air ducts from the water closet up to the connection point to the Exhibition Organizer's main channels and install domestic ventilation equipment (fan).

Here, the air conduit scheme and installation at the Facility must be agreed by the Exhibition Organizer.

All works, materials and equipment related to the provision of exhaust ventilation from the areas of the food courts and restaurants shall be carried out at the Official Participants' expense.

If no exhaust ventilation system from the areas of the food courts and restaurants is installed, these areas may not be utilized by the Official Participant.

Air Conditioning.

The Exhibition Organizer shall make provisions for the Facility cooling system by VRV system. The refrigeration supply source at the Facility is a split variable refrigerant volume (VRV) air conditioning system. The refrigerant used is R410a. This system provides for cooling with the installation of internal modules into each Official Participant Pavilion. Location of the cooling system internal module (air conditioner) and engineering data will be issued additionally in the Pavilion's certificate (see the certificate form attached).

The Official Participant is allowed to change the location of internal modules within a radius of maximum 2 metres from the location specified by the Exhibition Organizer. Cooling system pipelines are insulated copper freon conduits. Welding operations with copper shall be carried out in accordance with the regulatory documents as follows:

EN 12735-1 Copper and Copper Alloys. Seamless Circular Pipes of Copper for Refrigerating equipment and Air Conditioning Equipment.

Part 1: Pipes for Pipeline Systems.

EN 12735-2 Copper and Copper Alloys. Seamless Circular Pipes of Copper for Refrigerating equipment and Air Conditioning Equipment.

Part 2: Pipes for Equipment.

Refrigeration supply parameters - 100 W/m².

The Official Participant shall bear personal responsibility to check in-situ all the existing conditions impacting the Official Participant's expected works and to show these conditions in final drawings.



Figure 25: Plan of air conditioner layout in the Official Participants' Pavilions.

The Official Participant shall bear responsibility for the insulation of all equipment to prevent vibration and noise from its operation from transmitting outside the Pavilion. The Official Participant shall not use the space above the counter ceiling for the injection of circulating air; the whole volume of air being removed above the ceiling shall be passed via air ducts.

All works, materials, and equipment related to the provision of the Official Participant's Pavilion air conditioning connected to the movement of air conditioners, extension and movement of flexible air ducts and the movement of diffusers shall be carried out at the Official Participant's expense.

5. DESIGN REQUIREMENTS & SPECIFICATIONS.

5.1. SPECIFICATIONS AND REQUIREMENTS FOR MECHANICAL SYSTEMS

5.1.1. PLACEMENT OF EQUIPMENT.

All the Official Participant's equipment shall be installed with due account for ease of dismantling and maintenance.

5.1.2. AIR DUCTS.

All air ducts must be of zinc-coated metal sheets and insulated from the outside with a mineral wool layer coated with a 25 mm thick aluminium foil. Flexible air ducts with a maximum length of 800 mm can be used as feeds to the diffusers. Flexible air ducts shall be insulated from outside. Air ducts shall be of zinc-coated steel sheets at least 0.5 mm thick.

5.1.3. PLUMBING FIXTURES.

The Official Participant shall submit the data sheets for all the plumbing fixtures (if any) to the Exhibition Organizer.

5.1.4. ISOLATION VALVES.

In all the domestic water supply networks, ball-type valves shall be used.

5.1.5. ELECTRIC WATER HEATER.

Water heaters may only be installed if approved by the Exhibition Organizer.

5.1.6. PIPELINE FOR CONDENSATE REMOVAL.

The pipeline for condensate removal shall be of polyvinyl chloride pipes with a minimum internal diameter of 25 mm. To facilitate cleaning, all turns shall be of T-shaped components with plugs. All connections to the sewage system shall be made using U-bends installed in accessible places. U-bends shall also be equipped with T-shaped components with plugs facilitating manual filling.

5.1.7. ACCESS DOORS.

Access doors shall be installed in all the partitions or ceiling systems to provide access to the air conditioner, valves, air valves etc. All access doors shall be at least 600x600 mm in size with flaps opening to exterior. All utility systems shall be laid in a way that does not impede access to access doors. Access to access doors may not be obstructed or in any other way restricted by the Official Participant's equipment.

5.1.8. AIRFLOW CONTROL VALVES, ISOLATING AIR VALVES

If the Official Participant requires the installation of additional airflow control valves on its own internal air ducts, these must be equipped with hidden adjusting devices. Air valves with manual or mechanical control shall be installed.

5.2 SPECIFICATIONS AND REQUIREMENTS FOR ELECTRICAL SYSTEMS

5.2.1 POWER SUPPLY PARAMETERS

Parameters of Power Supply are as follows:

Three-phase 380 V, 5-wire circuit (3 phases + neutral wire + earthing wire);

Single-phase 220 V, 3-wire circuit (1 phase + neutral wire + earthing wire);

Grid frequency - 50 Hz.

Earthing system - TN-C-S.

Each Official Participant shall be provided with electric energy based on the following:

1st floor = 100 Watt/m² of rent area.

2nd floor = 200 Watt/m² of rent area (restaurants).

If the Official Participant needs extra electric power, it shall be individually negotiated with the Exhibition Organizer, and the Exhibition Organizer shall make the decision on the technical feasibility of providing such additional power.

5.2.2 WIRING TECHNIQUES

Unless otherwise specified, all electric wiring in all zones of the Official Participant's space shall be of PVC, HDPE, metal tubes, hidden, and laid along the shortest feasible paths between starting and ending points. All tubes shall be properly fixed.

Tubes shall be installed in parallel to horizontal and vertical lines of walls, ceilings and floors. On turns, it is permitted that tubes bend at an angle of 90° or 45° or standard dedicated fittings be used. All cable terminations and wiring shall be carried out in electrical switch boxes.

Uncovered cable chutes may only be installed in the ceiling void. During installation of cable-carrying structures in ceiling void, the layout of main cable chutes must be accounted for.

Access to connection locations, junction boxes must be provided.

5.2.3 REQUIREMENTS FOR THE OFFICIAL PARTICIPANT'S ELECTRICAL EQUIPMENT

Materials:

All the materials for wiring installation shall be new, of high quality, and in possession of the required certificates.

Regulatory rules and standards are as follows:

All works shall be carried out in strict adherence to the requirements of Construction Standards and Regulations (SNIIP), Electrical Installations Code ("PUE") and other applicable regulatory documents. Installing of fire-hazardous high-power utility equipment must be approved by the Exhibition Organizer.

Automatic circuit breakers of socket groups and equipment at the Official Participant's distributing panel must be fitted with leakage current protection designed for 0.03 Ampere. Junction and mounting boxes for terminal devices shall be standard and certified. When installing such boxes in damp or unprotected spaces, the Official Participant shall agree with the Exhibition Organizer the required box type. Mounting boxes for wiring items (i.e. circuit

breakers, receptacles etc.) shall be completely covered and fixed with screws or using brackets allowed for use.

Lighting fixtures shall be fixed to brackets agreed by the Exhibition Organizer. On the Exhibition Organizer's request, brackets must be tested for compliance with the requirements of regulatory documents in presence of the Design and Construction Operations Coordinator.

Floor-mounted receptacles:

floor-mounted receptacles must be installed flush with the floor and be hidden in floor mounting boxes, the type of which shall be agreed with the Design and Construction Operations Coordinator. Floor-mounted receptacles shall have an impermeable cover.

Requirements for electric engine bladed switches:

The bladed switches shall contain no fusible links and be designed for standard operating current. Each electric engine invisible from the main circuit breaker of panel from which it is powered shall be equipped with an additional bladed switch in close proximity to the engine. Bladed switches may not be fixed onto tubes or chutes.

Electric engine starter: The electric engine magnetic starter shall be designed for the operating current and have cabling for 220/380 V 50 Hz. All the "hard-start" electric engines shall have thermal protection.

5.3 MAIN REQUIREMENTS AND SPECIFICATION FOR LOW-CURRENT SYSTEMS

5.3.1 OFFICIAL PARTICIPANT'S PAVILION AUTOMATION SYSTEM.

The Official Participant's Pavilion automation system shall be developed by the Official Participant independently at its own expense. Upon approval by the Exhibition Organizer, the Official Participant's Pavilion automation system can be connected to the Facility's automation system.

5.3.2 AUTOMATIC FIRE ALARM.

The automatic fire alarm in the Official Participant's Pavilion shall be connected to the Facility's fire alarm. Location of fire detectors shall be agreed with the Design and Construction Operations Coordinator.

Manual alarm call points shall be installed on the walls and structures at a height of 1.5 m from the floor level. Routes shall be laid with due account for the layout of power and lighting wiring systems and appliances (not closer than 0.5 m in case of parallel laying). Fire alarm units shall be installed at a distance not closer than 0.6 m from holes and vent grates. The fire alarm network shall be installed after installation of the Pavilion's power supply networks.

All works on the design and installation of the fire alarm systems in the Pavilion shall be carried out by the Official Participant at its own expense.

5.3.3 ACCESS CONTROL SYSTEM.

If desired, the Official Participant can connect its Pavilion to the Exhibition Organizer's access control system installed at the Facility. Details of such connection must be requested from the Design and Construction Operations Coordinator.

The Official Participant's Pavilion access control system shall be installed by the Official Participant independently at its own expense. The Official Participant shall undertake to present data on the quantity of visitors on a daily basis.

5.3.4 WARNING AND EVACUATION SYSTEM.

All the Official Participants' Pavilions are equipped with loudspeakers of the Exhibition Organizer's warning system. Should the installation of additional loudspeakers and any other changes to the system be required, the Official Participant shall contact the Design and Construction Operations Coordinator in order to obtain the specifications for the execution of such works and to agree these changes. In case these changes are agreed, the Official Participant shall bear all the expenses for the execution of works related to changes to the warning system at the Official Participant's initiative.

5.3.5 BURGLAR ALARM SYSTEM.

The Exhibition Organizer has provided for the presence of a burglar alarm system. If necessary, the Official Participant can connect its Pavilion to the Exhibition Organizer's burglar alarm system installed at the Facility.

The possibility of connecting the Official Participant's Pavilion to this system and the cost of this service shall be negotiated with the Exhibition Organizer additionally.

The Official Participant's Pavilion burglar alarm system shall be installed by the Official Participant independently at its own expense.

5.3.6. VIDEO SURVEILLANCE SYSTEM.

The Exhibition Organizer has provided for the presence of a video surveillance system installed in accordance with the requirements of the counter-terrorism legislation of the Republic of Kazakhstan.

If necessary, the Official Participant can connect its Pavilion to the Exhibition Organizer's video surveillance system installed at the Facility.

The possibility of connecting the Official Participant's Pavilion to this system, specifications for equipment, for connection to the unified video surveillance system, and also the operation procedure and the cost of this service shall be negotiated with the Exhibition Organizer additionally.

The Official Participant's Pavilion video surveillance system shall be installed by the Official Participant independently, connection and integration with the unified video surveillance system shall be performed by the Organizer's engineering departments.

5.3.7. TELECOMMUNICATION SYSTEMS

For the Official Participants' comfortable operation, communication channels ("VPN") have been allocated. VPN tunnels will be created by establishing a virtual "point-to-point" connection for the security of the data transmission channels. Specialized access control monitoring servers will be in operation for authentication and access.

6. CONSTRUCTION & INSTALLATION.

6.1. REQUIREMENTS FOR CONSTRUCTION. GENERAL.

This section establishes the basic rules of construction works to be adhered to by all the Official Participant's Contractors, Subcontractors and Suppliers of equipment and materials, at the Facility. All the work regardless of the performing entity - Contractor, Subcontractor, or Official Participant directly, shall be performed in accordance with the requirements specified in this guidelines. Infringement of these rules and standards will result in delays to construction. The Official Participant shall bear full responsibility to the Exhibition Organizer

for any activity related to the completion of works by the Official Participant, its Contractors and Subcontractors, if any, and also by Suppliers of equipment and materials, and by employees related to construction operations.

6.1.1 WORKS TO BE PERFORMED BY THE OFFICIAL PARTICIPANT.

All works carried out by the Official Participant shall not damage the Exhibition Organizer's Facility of Official Participant's Pavilion or any part thereof and shall be executed in the following manner:

Any equipment to be fixed to the Facility frame or supported by the Facility frame, fire alarm, automatic fire suppression system, and any works requiring penetration of the Facility envelope shall be entrusted to a Contractor possessing the relevant work experience and appropriate licences.

In case the Official Participant has no contractor experienced in the work, the Exhibition Organizer shall prepare and present a list of contracting organizations that meet the qualification requirements for experienced personnel, possession of permits for work performance, quality of works to be performed, and possessing the necessary equipment and mechanisms in order to carry out the construction and installation in due time. The Official Participant is entitled to either select a Contractor from the list proposed by the Exhibition Organizer or to engage another company to perform construction and installation.

Regardless of the Contractor selected by the Official Participant, the Official Participant shall bear full responsibility to the Exhibition Organizer for any activity related to completion of works by the Official Participant, its Contractors and Subcontractors, if any, and also by Suppliers of equipment and materials, and by employees related to construction operations.

6.2 MANPOWER AND MATERIALS.

The Official Participant shall ensure and pay for the hiring of manpower, the supply of materials, equipment, tools, construction equipment, mechanisms; temporary and permanent connection to the Facility's utility systems; transport and other means and services required for the proper execution and completion of works.

6.3 REQUIREMENTS TO BE FULFILLED PRIOR TO COMMENCEMENT OF WORKS

6.3.1 ADMISSION TO WORKS.

Provide the Design and Construction Operations Coordinator with and continuously have on site 1 (one) complete set of shop drawings stamped "Accepted" by the Exhibition Organizer;

Obtain approval of the supervision authorities for fire, sanitary, and radiological safety;

At least 3 (three) working days before commencement of works, submit for review the list of workers and employees specifying the following data: name of company, work site, full name, personal ID document data (copy), photo, contact data (phone number - for round-the-clock connection with the Exhibition Organizer's representative), term of work execution, as per the form according to Annex 2 to the present guidelines ;

Ensure that all own employees and workers possess all the required permits and registration documents specified by the Republic of Kazakhstan's legislation;

Take all safety measures for the works being executed;
Obtain passes for the workers from the Design and Construction Operations Coordinator;
Obtain a special permit from the Design and Construction Operations Coordinator for all types of vertical and horizontal vehicles exceeding 500 kg;
Ensure that all the employees involved in carrying out works on site pass the introductory briefing on production safety, occupational and environmental safety;

6.3.2 THE OFFICIAL PARTICIPANT'S REPRESENTATIVES.

Appoint by order the competent representative of the Official Participant (Construction Manager) with whom the Design and Construction Operations Coordinator will interact on issues of utilization of occupied areas in the Official Participant's Pavilion, construction and installation, finishing and pre-commissioning operations being executed in this Official Participant's Pavilion. Furthermore, maintain open communication with him/her at any time on current and emergency issues. In the absence of the Official Participant's representative, provide for his/her substitute (Deputy Manager) that is vested with the same authority. The Official Participant's representative must compulsorily comply with the position held and engineering skill level.

Submit the originals of orders on the appointment of a Manager and his/her substitutes or a Letter of Attorney for the Manager and his/her substitutes specifying the authority vested in them to the Exhibition Organizer,.

The person in charge shall possess the appropriate authority, hold a power of attorney from the Official Participant to receive correspondence and to represent the Official Participant in relations with the Exhibition Organizer related to the prompt solving of current issues. The person in charge shall have the possibility of round-the-clock communication with the Design and Construction Operations Coordinator in cases of emergency.

6.3.3. PROCEDURE OF CONSTRUCTION AND INSTALLATION PERFORMANCE AND ACCEPTANCE BY OFFICIAL PARTICIPANT.

The Official Participant's works shall be carried out in a professional manner, be of high quality and be operable and suitable for use at the moment of their completion.

The Official Participant shall pay for all the required permits and/or make all payments required by government consenting authorities and/or by companies providing utility services as regards the Official Participant's works.

Works shall be carried out by organizations with all the required permits and licences prescribed by Republic of Kazakhstan legislation

Upon completion of construction and installation, the Official Participant shall test and pre-commission the Pavilion's utility systems.

Upon completion of works in the Pavilion but not later than the Date of the Official Participant's exhibition activity commencement, the Official Participant shall hand over to the Exhibition Organizer the as-built documentation consisting of the following:

- As-built drawings;
- Executed Works Acceptance Certificate and records (reports) of utility systems and equipment testing;
- Certificates and passports for materials including fire safety certificates for materials and equipment;
- Certificates and guidelines for equipment, contact data of equipment suppliers;
- General log and dedicated works logs;
- Other documents showing actual fulfilment of design choices, at discretion of construction participants with due account for its specific nature.

The as-built documentation shall be handed over to the Exhibition Organizer in two separately bound copies and in electronic copy on CD.

The Official Participant shall undertake to present the Official Participant's Pavilion to the Commission for Pavilion Acceptance.

The Acceptance Commission shall be created by the order of the Exhibition Organizer. The Official Participant shall send an official notification on the completion of construction and installation in the Pavilion 10 (ten) working days before the expected date of Acceptance Commission work.

The Acceptance Commission composition shall be determined by the Exhibition Organizer. The Acceptance Commission shall compulsorily include: representatives of the Exhibition Organizer, of the Official Participant, the Official Participant's Contractors and Subcontractors (if any), representatives of governmental fire safety and sanitary and epidemiological safety authorities. The Acceptance Commission working time shall be determined by the Acceptance Commission Chairman. Upon completion of the Acceptance Commission work, the Certificate of Pavilion's Acceptance for Operation shall be signed if there are no comments and deviations from the design documentation. If any comments and deficiencies are discovered in the course of the Acceptance Commission work, the terms of the correction of comments by the Official Participant shall be determined together with the Exhibition Organizer and the Official Participant.

6.3.4. REQUIREMENTS FOR OFFICIAL PARTICIPANT AND CONTRACTOR.

The Official Participant shall ensure the execution by its Contractors and Subcontractors of the construction and installation in the Official Participant's Pavilion in accordance with the present guidelines in terms of compliance with the engineering and other standards of the Republic of Kazakhstan.

The Official participant must ensure the presence of the contractor's representative during the execution of works in the Official Participant's Pavilion.

By order of the Exhibition Organizer, the Official Participant shall ensure execution by the contractor of preparatory works for the temporary connection of utility systems.

The Official Participant shall ensure the storage of materials, equipment and tools within the Official Participant's Pavilion or in dedicated places, by order of the Design and Construction Operations Coordinator.

The Official Participant shall on a daily basis, upon completion of works, ensure garbage removal and placing (disposal) it into containers located in designated places, and the Exhibition Organizer shall undertake to ensure garbage removal from the Facility territory.

All cutting works shall be performed inside the Official Participant's Pavilion or outside the building in the designated places agreed by the Design and Construction Operations Coordinator. Cutting or breaking works on the concrete floor shall be performed under written consent of the Exhibition Organizer. The Official Participant shall be responsible for damage inflicted during the laying of pipes for cable and equipment and underneath them. Any pipes being laid through holes in floor, walls or partitions shall be "jacketed" to avoid the infiltration of smells and plaster, and coated with anti-grease insulation. All the indicators related to fire safety regulations shall be met.

Inside the Facility, no welding operations related to the fixing of components to the Facility may be performed, except for the installation of counter ceilings or lighting fixtures, and also in cases where no other fastening type is feasible. In such a case, this type of work shall be reviewed and approved by the Exhibition Organizer prior to commencement of works. Works related to the introduction of changes, extensions or reinforcement to the Facility may not be executed without consent of the Design and Construction Operations Coordinator. The Official Participant shall hand over the project prepared by the authorized organizations with an addendum outlining thorough engineering calculation to the Exhibition Organizer for consideration of the possibility of executing the above works. Sand, cement, gypsum etc. to

be used during works' execution may not be transported in bulk in uncovered barrows. The Official Participant must inform the Exhibition Organizer of minor damage inflicted to completed works (walls, ceiling, floor coatings, electric and mechanical equipment etc.) during conveyance of materials.

When carrying out finishing works, only materials approved by the Technical Office regarding fire safety, sanitary and epidemiological and radiological safety are allowed to be used, except for cases when the use of specially treated flame-retardant materials approved by government authorities is allowed.

Materials shall be transported in barrows with rubber wheels. Each wheeled pallet may transport a maximum load of 500 kg. No transportation and passing through the Official Participant's Pavilion, in which finishing works are being executed, is allowed. Lifts may not be used to convey materials.

Throughout the period of works execution in the Pavilion by the Official Participant, the risk of accidental death or damage to property located in the Official Participant's Pavilion and also of the result of works executed shall be vested in the Official Participant.

6.4 FIRE SAFETY

6.4.1 GENERAL MEASURES.

In an Official Participant's Pavilion equipped with the sprinkler system, no welding and cutting works may be performed if the water supply to the sprinkler system is cut off.

If welding operations are executed in an Official Participant's Pavilion that is connected to the fire alarm system, only the plot in which the works are being performed shall be isolated. As soon as works are finished, the condition of the plot must be restored.

Upon completion of welding operations, every hour for the next 5 (five) hours, the Official Participant's qualified expert must inspect the welding operations' site and adjacent space visually to reveal possible inflammation.

6.4.2. WELDING OPERATIONS.

Welding operations in the Official Participant's Pavilion shall only be performed by skilled personnel with fulfilment of all the safety and fire safety regulations if such works are infeasible outside the Facility or a safer technique cannot be found.

6.4.3 PROCEDURE OF OBTAINING WELDING PERMITS.

Any welding operations shall be performed under the Design and Construction Operations Coordinator's written consent issued with due account for works being executed on the territory adjacent to the expected welding site.

6.4.4 PRIOR TO WELDING OPERATIONS.

Prior to commencement of operations, the site where welding operations will be executed shall be cleared of inflammable materials and combustible liquids within a radius of 10 m. All the floor coverings capable of inflammation must be treated and brought to a safe state. Voids, entrances and holes in walls, floor and ceilings shall be also treated. The distance of 10 m can be increased in places where the risk of fire is high enough or during the execution of main works.

At established operations sites, floors capable of inflammation must be covered with slabs of incombustible materials, or be covered with water, or covered with a large quantity of sand. Special attention shall be paid to the proper covering of voids on floors.

When combustible materials cannot be removed within the radius of 10 m, these must be

covered with incombustible or fire-retardant materials. Inflammable liquids must without fail be removed outside the operations site.

Floors shall be swept and cleaned.

Under no circumstances may welding operations be performed in an atmosphere saturated with combustible gases, and flammable solvents may not be used to clean surfaces prior to welding operations.

At all welding sites, sufficient ventilation must be ensured since the works can be accompanied by the release of a large amount of smoke and vapour.

At the site where welding operations are being performed, the required amount of fire suppression means must be available - at least 2 (two) certified fire extinguishers, a bucket with water and a bucket with sand. These must be ready for use in emergency. Persons executing welding operations must be instructed on how to use the fire extinguishers.

Personnel performing welding operations must be aware of the escape routes from the area, how to use fire alarm and to call for the fire brigade.

6.4.5 COMPLETION OF WELDING OPERATIONS

Upon completion of welding operations, hot ends of welding machines' electrodes and other hot used materials shall be collected in a safe manner and disposed of.

Upon completion of works, all welding equipment shall be transported to a safe location.

For detailed fire safety requirements, see "Guidelines for Fire Safety in Designing, Construction, and Operation of the Official Participant's Pavilion" attached as Annex 3 to this guidelines.

6.5. PROCEDURES AND RULES PRESCRIBED BY THE EXHIBITION ORGANIZER.

Works of the Official Participant must be coordinated with all the works being performed by the Exhibition Organizer or those to be performed by the Exhibition Organizer and other Official Participants at the Facility, so that the Official Participant's works do not create obstruction or delays in the completion of any other works. No Contractor or Subcontractor involved in the Official Participant's work may inflict damage, create obstruction or induce delay of the Facility construction completion at any time, and each of them must fulfil all the procedures and regulations prescribed by the Exhibition Organizer, for the purpose of the integration of the Official Participant's works with the construction and any other works being performed in respect of the Facility.

6.6. AREA ACCEPTANCE CERTIFICATE FOR DESIGN AND CONSTRUCTION WORKS.

Prior to the start of design as well as preparatory and construction works, the Official Participant shall accept the space allotted for exhibition activity in the Facility from the Exhibition Organizer. The template of Acceptance Certificate of the Area for Project and Construction Works ("the Certificate") is given in Annex 4 to the present guidelines.

When signing of the Certificate, the Exhibition Organizer shall together with the Official Participant visually inspect the actual condition and measure the actual parameters of the Exhibition Organizer's area.

The Official Participant shall visually inspect the area for presence of utility systems laid to the area as per the Area Certificate being issued to the Official Participant during the determination and selection of the area and signing of the Participation Contract.

The Exhibition Organizer shall hand over the area with parameters shown in the Area Certificate. Upon joint visual inspection, the Exhibition Organizer and the Official Participant shall sign the Certificate. In case of discovery of non-compliance of any parameters specified in the Area Certificate with actual parameters, the revealed non-compliances shall be shown

in an additional record in the Certificate. All the revealed non-compliances with specified parameters of the area shall be eliminated by the Exhibition Organizer.

After the exhibition closure and dismantling, the Official Participant must restore the area to its original condition (to the state in which the area was accepted under the Certificate) and hand over the area to the Exhibition Organizer under the Certificate.

6.7. SUPERVISION OF CONSTRUCTION.

The official Participant shall perform construction and installation in accordance with the developed and approved Pavilion Design and the guidelines.

The Exhibition Organizer is entitled to supervise construction and installation at any time. In case infringement or deviation from quality and the Pavilion Design requirements is discovered, the Exhibition Organizer shall send the Official Participant an official written order about the infringements discovered during the construction and installation.

The Construction Manager appointed by the Official Participant's order shall take all possible actions to eliminate the deviations committed. Elimination of infringements by the Official Participant shall be registered by the relevant record in the operations log and supervision log.

The Official Participant shall inform the Exhibition Organizer in advance of all the precautions (including measures related to materials potentially hazardous for health) mandatory for the Exhibition Organizer or its representatives during visit to the Official Participant's Pavilion; where necessary, the Official Participant shall provide the Exhibition Organizer and its representatives with protective clothing and/or special protective equipment.

6.8. CONSTRUCTION OPERATIONS RELATED TO EXHIBITION ORGANIZER FACILITY STRUCTURE INTEGRITY AND SAFETY.

When the Official Participant carries out construction and installation that affect, directly or indirectly, the Facility's structures or systems critical for the Facility integrity and safety, the Official Participant shall carry out such works with the approval and in the presence of the Exhibition Organizer's representative.

6.9. SUSPENSION OF WORKS BY THE EXHIBITION ORGANIZER.

The Exhibition Organizer shall reserve the right to supervise the progress of the Official Participant Pavilion's outfitting works, to assess their compliance with the requirements of the present guidelines, and to stop any works being executed in infringement of the guidelines' requirements or works which, in the Exhibition Organizer's opinion, present a potential hazard to the building or people present in it. Restart of such works shall only be permitted upon the elimination of the reasons that compelled the exhibition Organizer to stop the works. Here, the Exhibition Organizer shall bear no responsibility for delays or losses related to suspension of the Official Participant's works.

6.10. AGENDA OF PRE-CONSTRUCTION MEETING.

- Insurance;
- Procedure of Pavilion Design Approval;
- Approval of the contractor and execution of the contractor's personnel admittance to the Official Participant's Pavilion to perform works;
- Works program (schedule);
- List of the Pavilion's standard equipment;
- Fire safety actions;
- Compulsory notifications of the Exhibition Organizer;

- Procedure of cargo supply and motor transport parking;
- Procedure of the use of freight and service lifts;
- Procedure of garbage removal;
- Temporary power supply and water supply;
- Protection of the existing façade and decoration of the building;
- Protective equipment: clothing, helmets etc.;
- Rules for handling harmful and hazardous substances;
- Situations when Official Participant or Contractors are obliged to send the appropriate notification to the Exhibition Organizer's Coordination office;
- Permanent connection to the building utility systems;
- Examination of the completed works.

6.11 TIME OF OPERATIONS

The Exhibition Organizer's office (Technical Office) has the following working hours: Mon - Fri 09:00 till 19:00, except for established national holidays. All the issues related to the coordination of works shall be solved with the Exhibition Organizer's Coordination office within the specified hours. Presence of the Design and Construction Operations Coordinator at his/her workplace in idle time, initiated by the Official Participant shall be implemented upon prior (24 hours) written agreement with the Exhibition Organizer.

General construction works in the Facility in the Official Participants' Pavilions can be performed round-the-clock.

Works such as making holes with diamond-headed drill bits, jack-hammers, pneumatic hammers as well as work with materials with strong smell, paints, putty, glue etc. may only be carried out from 00:00 till 8:00 or upon prior agreement with the Exhibition Organizer's Technical Office.

A different schedule of works shall be subject to prior written agreement with the Exhibition Organizer's Technical Office.

6.12. ACCESS TO OFFICIAL PARTICIPANT'S PAVILION DURING WORKS ON OFFICIAL PARTICIPANT'S PAVILION OUTFITTING.

The Official Participant and its contractors' personnel shall only enter through the service entrance to the Facility with a compulsory body search in accordance with pre-approved lists and presentation of a pass and personal identification pass documents to security personnel.

A person may not be on the construction territory of the Facility without the appropriate pass.

Responsibility for non-observance of the established procedure shall be borne by the Official Participant.

Passes for the Official Participant and its contractors' personnel shall be issued by the Design and Construction Operations Coordinator in the Exhibition Organizer's Technical Office on the basis of lists submitted by the Official Participant at least 3 (three) working days before commencement of works. Increase of personnel number shall be subject to approval in accordance with the procedure established in this paragraph. In case of personnel number reduction, the Official Participant shall send the relevant notification specifying persons for whom access to the Official Participant's Pavilion has ceased with passes attached which were previously issued to these persons to the Exhibition Organizer Technical Office within three days.

The Exhibition Organizer is entitled not to admit the Official Participant and its contractors' personnel to the Facility construction site if, in the Exhibition Organizer's opinion, such personnel is capable of damaging the Exhibition Organizer's safety, goodwill, or interests.

No person in an intoxicated state may be on the Pavilion's construction site territory or on the Facility territory.

The Official Participant's Pavilion's fire exits or fire escape stairways to/from the Public zone may not be used to enter or exit the building.

Temporary dwelling of the Official Participant and its contractors' personnel on the territory of the Official Participant's Pavilion construction site and Construction Facility shall be prohibited.

No contractor's personnel wearing clothes not complying with safety rules and of an unkempt appearance may be on the territory of the construction site and the Construction facility.

In cases where the Official Participant is carrying out works after opening of the exhibition centre for visitors, the Official Participant and its contractors' personnel wearing work clothes may not be in public spaces.

6.13. SAFEKEEPING THE OFFICIAL PARTICIPANT'S PROPERTY IN IDLE TIME.

For the safekeeping of the Official Participant's property in idle time, the Exhibition Organizer shall establish a procedure of turning over and releasing the Official Participant's Pavilion containing the Official Participant's material assets for safekeeping. In turn, the Official Participant must ensure the fulfilment of the following rules:

1. The Official Participant's accountable person shall determine the material assets storage and stockholding based upon operational needs. Here, the Official Participant shall notify the exhibition Organizer of availability of the Official Participant' accountable person and provide the documents of the said person's appointment and responsibilities (orders, ID certificate etc.).
2. Assets shall be handed over for safekeeping by the Official Participant's accountable person with the Exhibition Organizer's guard present and with an entry made in the material assets' transfer log as follows:
 - date and time the assets were handed over for safekeeping;
 - description of material assets (of the Official Participant's Pavilion);
 - location or place of storing these assets;
 - number of seal with which the assets are sealed;
 - signature and surname of the person handing the assets over for safekeeping;
 - signature and surname of the person accepting the assets for safekeeping.
3. The Exhibition Organizer's security service shall only bear responsibility for the integrity of the external fencing, doors, locking devices, and seals. Under no circumstances shall the Exhibition Organizer's security service bear responsibility for the quantity and quality of the material assets in the Official Participant's Pavilion.
4. The time to hand the material assets over for safekeeping shall be determined by the Official Participant's representative based upon operational needs. During acceptance of the facility for safekeeping, the security guard together with the Official Participant's representative shall check its condition (doors, windows, grates, equipment, seals etc.). If

no comments arise, the facility shall be accepted for safekeeping. When the material assets are returned to the Official Participant's representative, these shall be checked in the presence of the Official Participant's representative. Then, the representative will sign for the acceptance and absence of comments, giving the date, time, signature and surname of the person releasing the items from safekeeping shall be specified. If the Official Participant's representative discovers a removed or broken seal during the release of his facility from safekeeping, or any other comments arise, official representatives of the Official Participant, Exhibition Organizer security service, and security service managers shall be called for to conduct case analysis and composition of the relevant report.

5. If the Official Participant's representative, due to his own negligence, failed to hand the material assets over for safekeeping to the guards with entry to the log, and these assets were stolen, analysis of the causes of the theft or break-in shall be conducted, and the entire material responsibility shall be borne by the person who failed to hand the material assets over for safekeeping.
6. The Exhibition Organizer's guard is entitled to demand from the Official Participant's representatives that they fulfil the requirements of the present regulation. In cases of refusal to fulfil or flagrant violation of the regulation requirements, the guard shall inform the security managers and Exhibition Organizer's representatives to allow them to take measures against the transgressors.
7. If lack of, or damage to, property is discovered, the Official Participant's representatives are prohibited to release the property from safekeeping until completion of investigations of the reasons and circumstances of the case have been conducted. When doors, locks, windows, grates, metal boxes and safes are damaged, a joint commission revision of the Official Participant's Pavilion with participation of the representatives of the Official Participant, Exhibition Organizer, and security service shall be conducted and a report composed.

6.14. SITUATIONS WHEN THE OFFICIAL PARTICIPANT OR CONTRACTORS ARE OBLIGED TO SEND APPROPRIATE NOTIFICATION TO THE TECHNICAL OFFICE.

The Official Participant shall only be entitled to carry out the following operations subject to prior written agreement by the Exhibition Organizer's Technical Office:

- Making of holes using diamond-headed drill bits in floor slabs or walls, for equipment installation (only with drilling of preliminary test hole);
- Connection of any utility lines to the Exhibition Organizer's systems;
- Works involving paints, glues, lacquers etc.;
- Waterproofing tests;
- Works in the areas of another Official Participant for the proper carrying out of works in the Official Participant's area;
- Supply of substandard equipment and materials (oversized, overweight items etc.)
- Invitation of the Exhibition Organizer Technical Office engineering department employees to testing and approvals.

6.15. MATERIALS' DISPOSAL

The Official Participant shall return to the Exhibition Organizer all the dismantled materials suitable for re-use (to be determined by the Exhibition Organizer) that remain after the dismantling of components of the Facility and shall transport said materials to the place specified by the Exhibition Organizer.

6.16 DELIVERY OF CARGO.

Vehicles with a fuel stock (except for that in fuel tanks), the import of any explosive or harmful substances, chemicals, gases etc. may not be admitted to the Handling Area

The Exhibition Organizer possesses exclusive authority for admittance or rejection to admit people and motor vehicles to the Facility's Handling Area.

The Exhibition Organizer shall reserve the right to inspect any cargo on the Facility's territory and not admit cargo not complying with the present Regulations, the Official Participant's business activities, or the Contract terms and conditions, and also cargo delivered without the appropriate documentation.

The Exhibition Organizer shall bear no responsibility for the integrity of vehicles and property in the vehicles which are within the Handling Area or on the adjacent territory. The Exhibition Organizer will also regulate the presence of vehicles in the Handling Area.

The detailed procedure of cargo delivery and inspection over the period of works' execution in the Pavilion undertaken by the Official Participant up until the date of the opening of the Exhibition centre to visitors shall be stipulated by a separate guide.

The Official Participant and its contractors' motor transport shall enter through a separate entrance defined by the Organizer's security service according to pre-approved lists and upon the presentation of cargo delivery and transport documents, and personal ID.

All the cargo entering the exhibition centre territory shall be subject to examination using search systems. In case of cargo being imported onto the territory that can be deformed or spoiled due to search systems' radiation, the Official Participant shall inform the Organizer's security service of this in advance.

6.17 WORKS ON THE EXHIBITION ORGANIZER'S FACILITY ROOF.

The Official Participant may not access the building roof and execute any works there. Any works on the building roof required by the Official Participant for execution of comprehensive works in the Pavilion, shall be pre-agreed by the Design and Construction Operations Coordinator in writing and only performed in the presence of the Exhibition Organizer's representative. Such works shall be performed at the Official Participant's expense.

6.18 CONNECTION TO THE EXHIBITION ORGANIZER'S FACILITY'S PERMANENT UTILITY AND OTHER SYSTEMS

Each connection to the Facility's utility systems (either permanent or temporary, initial or repeated) shall only be allowed with the Exhibition Organizer's written consent. Should this requirement be violated, the Exhibition Organizer shall be entitled to stop any equipping works on the Official Participant's Pavilion until the damage and modifications to the utility systems elements which resulted from violation of this requirement can be eliminated. Issuance of a permit for the Official Participant's Contractor's initial or repeated connection shall be preceded by the tests and procedures outlined below, conducted in the presence of the Exhibition Organizer Technical Office's authorized representative.

Static pressure testing of the Official Participant's following pipelines in accordance with the SNiP requirements:

Domestic water supply line and sewage system;

Washing and check of pipelines' slope by pouring of water into the sewage system and condensate removal from each air conditioner.

Overload testing of the main automatic circuit breaker.

"Phase - zero" loop testing.

Earth leakage current protection testing of the main automatic circuit breaker.

Checking automatic ventilation tripping in case of fire.

All tests and procedures shall be performed in strict adherence to SNiP, PUE, Rules for Operation of Customers' Electrical Installations (PEEP) and Safety Rules for the Operation of Consumers' Electrical Installations (PTB within EEP) of the Republic of Kazakhstan.

Official Participants shall prepare the standard Acceptance Certificate to be signed by the following persons in case of successful testing:

- Official Participant;
- Official Participant's Contractor;
- Subcontractor (if any);
- Official Participant's Engineer in charge for utility systems;
- Design and Construction Operations Coordinator.

Only Official Participant's systems completely ready for operation shall be allowed to be connected (re-connected) to the Exhibition Organizer Facility systems. Prior to any testing, a copy of the as-built drawing for each specified and non-specified system shall be prepared by the Official Participant and submitted to the Exhibition Organizer. Upon connection, no further changes in the connected system are allowed without additional consent of the Exhibition Organizer. All the detected non-authorized changes will be regarded as non-authorized connection.

If the Official Participant possesses the approved project of connection (re-connection) to the Facility main low-current systems such as fire alarm system, building control system, warning systems, access control monitoring system, video surveillance system etc., works on such connection shall be executed in the presence of the Exhibition Organizer's representatives. Since connection works are rarely performed and of high technical complexity, the technique of these works is not covered by the present Manual. Nevertheless, should such works be required, the Official Participant shall personally ensure receipt of the approved copy of the document that describe the necessary technique from the Exhibition Organizer, and shall bear responsibility for the observance of this technique.

6.19. CLEANING AND GARBAGE REMOVAL.

The procedure of cleaning and garbage removal for the period of works' execution by the Official Participant in the Official Participant's Pavilion is established below.

Large-size garbage shall be removed by the Official Participant in the presence of a representative of the Exhibition Organizer's Technical Office.

6.20. PROTECTION OF PEOPLE AND PROPERTY.

The Official Participant shall appoint a person in charge for occupational safety and observance of safety rules during the execution of construction and installation and dismantling operations in the Pavilion and also during use of the Pavilion for the Exhibition period and send the order to the Exhibition Organizer.

The Official Participant must ensure observance of safety rules within the period of execution of works on the construction site of the Pavilion and Facilities by its own personnel and by contractors' personnel.

During execution of works, the Official Participant must take all the reasonable precautions and ensure reasonable measures to prevent damage in respect of:

- All the items, materials, and equipment used inside the Official Participant's Pavilion or outside and those covered by the responsibility, in storage or under the control of the Official Participant.
- Other property in the Official Participant's Pavilion and on adjacent territories including, but not limited to, the following: trees, plants, the roof, lawns, pedestrian walkways, sidewalks, roads, structures and utility lines.

Should any construction be performed above the pedestrian or vehicle traffic zone, the works shall be performed during the absence of such traffic. Areas under the works' zone shall be closed for traffic throughout the period of the works' execution.

The Official Participant shall take all the necessary precautions to prevent the infiltration of dust, moisture etc. to the Official Participant's adjacent rooms and to prevent damage of the Pavilions and equipment.

The Official Participant shall repair or replace all the components of the Facility fit-out and design damaged by it, or its contractor during execution of works in the Official Participant's Pavilion (including but not limited to the following: beams, walls, columns, ceilings, stained-glass panels, glass etc.).

7. DISMANTLING

Dismantling shall only be performed by experienced personnel using professional tools and observing safety requirements during dismantling operations.

Elements of the wall, partition etc. being demolished shall be prevented from falling onto the floor.

Dismantling works related to utility systems and lines shall be performed by core-competence employees.

Personal protective equipment (gloves, face mask, helmet where necessary) must be used.

The Official Participant shall ensure the compulsory availability of the following:

- Fire extinguisher at the Facility;
- Waste containers for garbage removal (by hand or vehicle).

The Exhibition Organizer's floor shall be covered on the routes of construction garbage removal.

Lifts may not be used for the removal of construction garbage.

Weakening of the Exhibition Organizer's Facility framing and building envelope must be avoided.

Utility and process equipment (plumbing, electrical etc.) may only be dismantled by skilled experts. In case of an accident, its cause must be immediately eliminated where possible. Dismantling of utility systems and lines linked to the Facility utility systems must be carried out in the presence of the Exhibition Organizer.

In the dismantling of sand cement screeds, the use of pneumatic hammers perpendicular to the floor plane shall be avoided, otherwise the probability arises of damage to floor heating.

A detailed dismantling plan must be shown by the Official Participant in the Pavilion Design.

8. MISCELLANEOUS

It is not permitted that any personnel of the Official Participant, its contractors and suppliers remain on the territory of the Facility and EXPO 2017 without a specific purpose.

Loud replaying of audio records shall be prohibited. Violation of this requirement may result in the use of radio sets, CD players etc. on the EXPO 2017 territory being prohibited.

Loud speech and ribaldry shall be prohibited. Smoking, drinking of alcohol and taking drugs on the territory of Pavilion, Facility and EXPO 2017 shall be prohibited.

Violation shall be registered by authorized persons drawing up a report in the established form and the subsequent imposing of a fine on the Official Participant, whose employee (representative) committed the violation.

9. ANNEXES

Annex 1. List of Construction Materials, Items, and Structures regarding which the Safety Requirements shall be Established.

Annex 2. Template of the List of the Official Participant's Admitted Employees and Workers.

Annex 3. "Fire Safety Guidelines for the Design, Construction, and Use of the Official Participant's Pavilion".

Annex 4. Form of the Pavilion Acceptance Certificate for the Design and Construction.

ANNEX 1. LIST OF CONSTRUCTION MATERIALS, ITEMS, AND STRUCTURES REGARDING WHICH THE SAFETY REQUIREMENTS SHALL BE ESTABLISHED.

LIST OF CONSTRUCTION MATERIALS, ITEMS, AND STRUCTURES REGARDING WHICH THE SAFETY REQUIREMENTS SHALL BE ESTABLISHED

Description
Non-ore materials
Porous fillers
Facing materials and items of natural stone and natural-stone-based ones
Road-building materials of natural stone
Base materials and materials of pearlite rock, quartz and dolomite
Non-metal-ore materials
Cement
Portland cement w/o additives
Portland cement w/o additives with special requirements
Portland cement with additives with special requirements
Iron Portland cement and Portland cement with special requirements
Puzzolana Portland cement and puzzolana Portland cement with special requirements
Aluminate cement and aluminate cement with special requirements
Refractory cements, mortar mixtures, concretes and similar mixtures
Other types of cement
Cement production materials
Lime, gypsum and other local binders
Wall and partition materials
Wall materials (w/o reinforced-concrete boards)
Boards, slabs, planks, bars, blocks and similar items of vegetable fibres, straw and waste wood agglomerated with mineral binders
Partition materials
Concrete mixtures and mortar mixtures
Dry mortar mixtures
Non-reinforced concrete items
Ceramic construction materials and items
Covering ceramic items including tiles
Acid-resistant ceramic items
Ceramic enamelled paving blocks, covering tiles for floors, furnaces, chimneys or walls
Roof tiles
Other ceramic materials and items

Heat and sound insulating materials and items
Heat insulating inorganic loose materials
Heat and sound insulating items of mineral wool
Heat and sound insulating items of glass fibre and glass wool
Diatomite foam items, diatomite items, and tripoli items
Heat and sound insulating perlite items
Heat insulating asbestos-containing items
Other heat and sound insulating inorganic items
Heat insulating items of organic materials
Heat and sound insulating items of basalt fibre
Roofing, water proofing and sealing finishing materials of polymers
Linoleum (rolls and tiles)
Other carpets and textile floor coatings, finished or non-finished
Other polymer materials and items
Rolled roofing and water proofing materials (soft roofing and water proofing materials)
Roofing and water proofing putties, pastes, mixtures for built-up roofing
Asbestos cement items
Asbestos cement sheets (boards)
Asbestos cement pipes and couplings
Other items of asbestos cement and asbestos cement production waste
Asbestos
Prefabricated reinforced-concrete structures and parts
Foundation structures and parts
Foundation structures and parts
Socket-type foundations and shoes
Foundation slabs
Grillage parts
Piles
Buildings and structures framing structures and parts
Columns
Rafter beams and roof trusses
Crane girders
Spandrel beams, foundation beams and beams for structures
Collar beams and bearers
Girders
Components of frames
Crosspieces
Spreader bars

Wall structures and parts, and partitions
External wall boards
Internal wall boards
Partitions
Wall blocks
Slabs, boards and decking of floors and covers
Covering slabs
Floor slabs
Road building slabs
Engineering works structures and parts
Structures and parts of bridge frameworks
Parts of pipe culverts
Parts of inspection wells
Structures and parts of silos and cooling towers
Components of pipeline gantries
Other structures and parts of engineering hydraulic works
Special-purpose structures and parts
Pressure pipes
Non-pressure pipes
OHL and communication supports, and components of electrified roads' contact grid of lighting grid
Special-purpose air field slabs
Attachments and trellis columns for fencing
Special-purpose heat-resistant and other reinforced concrete
Structural and architectural components of buildings and structures
Components of stairways
Utility blocks
Architectural components of buildings and structures
Components of buildings' entrances and pits
Parts of lift and ventilation shafts
Utility cores
Components of loggias and balconies
Components of fences
Items of glass
Rolled glass sheets
Cast and rolled glass, drawn or hollow, sheet or profiled but not treated by other method
Window glass (glass sheets)
Architectural and construction glass

Safe, hardened (tempered) or multi-layer glass
Finishing materials and items of glass, glass foam
Commercial glass
Float glass sheets, silicate glass for production of organic glass
Special-purpose glass
Glass parts of various purpose
Other commercial glassware
Continuous glass fibre and items thereof
Glass fibre and other items thereof
Products of the logging / sawmilling and woodworking industry
Pressed timber in the form of blocks, slabs, bars or sections
Semi-finished parts for details of construction
Semi-finished parts for construction details
Timber construction items and standard houses
Standard houses and sets of parts for houses with walls of local construction materials
Construction works
Laminated boards of lumber and decorative boards
Products of plywood production, slabs
Plywood
Veneer sheets
Wood particle boards
Fibre boards
Wallpaper and similar materials for pasting on walls; transparent paper for windows
Polymers, plastic masses, chemical fibres and gums used in construction
Plastics, materials and semi-finished goods
Pipes, tubes and hoses and their fittings (e.g. connections, elbows, flanges) of plastics
Plates, sheets, film, foil and strips of plastics
Monofilament yarn with a cross-section dimension of over 1 mm; bars, rods and sections of plastics
Tapes, plates, strips, sheets, film, foil in rolls or flat of plastics, with width < 20 cm
Other self-adhesive tapes, plates, strips, sheets, film, foil and other flat forms of plastics
Doors and their sills, windows and their frames
Shutters, curtains (including jalousie) and similar items and parts thereof
Other construction items of plastics, not included into other groups
Synthetic gum in primary forms
Green gum and items of this; rubber (except for solid rubber) in the form of filament, cord, plates, sheets, strips, rods, and sections
Conveyor (transfer) belts and drive belts of rubber
Floor coatings and mats of bound rubber except for porous rubber
Lacquers based on condensation resins

Lacquers, enamels, primers and hard putties based on polymerization resins
Lacquers, enamels, primers and hard putties based on cellulose esters
Spirit lacquers and polishes
Water-dispersion paints and primers
Paint pastes ready for use
Drying oils
Paint solvents and removers
Acetone
Paints and varnishes, primers, desiccants ready for use
Other paints and varnishes
Hard putties for painting work; for surface preparation of façades, internal walls of buildings, floors, ceilings, and other putties, solvents and thinners
Casein glues, phenol-polyvinyl acetate glues etc.
Pigments
Zinc oxide and zinc peroxide
Chromium oxides and hydroxides
Manganese oxides
Iron oxides and hydroxides
Cobalt oxides and hydroxides
Titanium oxide
Lead oxide; red lead oxide (red and orange)
Lithium oxide and lithium hydroxide
Vanadium oxides and hydroxides
Nickel oxides and hydroxides
Germanium oxides and zirconium dioxide
Molybdenum oxides and hydroxides
Antimony oxides
Other metals' oxides, hydroxides and peroxides
Organic synthetic colouring agents of defined or undefined chemical composition
Colouring agents not included in other groups; inorganic products being used as luminophores
White dry pigments
Coloured pigments
Non-ferrous rolled stock, finished
Beams and channels
Rolled sections of standard quality
Rolled wire
Structural rolled sections
Steel pipes

Rolled stainless (corrosion-resistant) pipes
General-purpose pipes
Thin-wall seamless pipes (except for stainless ones)
Steel construction works
Structures of buildings' frames (except for those solved in light-weight structures)
Lattice towers and poles of non-ferrous metals
Envelopes and built-in structures of buildings
Equipment for metal scaffolding, frameworks, gravity walls or pithead frame
Boards consisting of two walls made of corrugated (ribbed) sheet with insulating filler
Structures of commercial works
Structures of engineering works
Structures of special-purpose works
Structures for agricultural construction
Construction structures and items (components) of aluminium and aluminium alloys
Aluminium metalworks and parts thereof, windows, doors and their frames
Aluminium rods and sections
Buildings' envelopes
Buildings' structures combining functions of framing and envelope
Framing of buildings and structures
Structures of engineering works
Decorative and facing items, moulded items, and protective and decorative items
Prefabricated and block structures

ANNEX 2. TEMPLATE OF THE LIST OF THE OFFICIAL PARTICIPANT'S ADMITTED EMPLOYEES AND WORKERS.

LIST OF EMPLOYEES AND WORKERS OF THE PAVILION _____.

No.	Full name	Date of birth (dd/mm/yyyy)	Personal data (No. of ID document, issued by, country)	Contact data in the Republic of Kazakhstan	Pass validity period	Photo
1						
2						
3						
4						
5						

Director of Pavilion _____ Full name
signature here

ANNEX 4. FORM OF THE PAVILION
ACCEPTANCE CERTIFICATE FOR PROJECTED AND CONSTRUCTION WORKS

ACCEPTANCE CERTIFICATE No. _____ FOR PAVILION _____

dated _____, 201__

Astana

JSC National Company "Astana EXPO-2017", hereinafter referred to as the "Exhibition Organiser", represented by _____ (full name, position) acting pursuant to _____ (Charter, Regulation, Letter of Attorney), of the one part, and _____ (name of organization, country) hereinafter referred to as the "Official Participant", represented by _____ (full name, position) acting pursuant to _____ (Charter, Regulation, Letter of Attorney) _____, of the other part, jointly referred to as Parties, have executed the present Acceptance Certificate ("the Certificate") on the following:

1. In accordance with the Participation Contract dated _____, 2017 No. _____ ("the Contract"), the Exhibition Organiser shall hand over the non-residential space specified in par. 2 of the Certificate, and the Official Participant shall accept this non-residential space.
2. Under the present Certificate, the following non-residential space shall be handed over to the Official Participant:
 - 2.1. "The Pavilion of the Official Participant _____ (country) (the "Pavilion"), with a total area of _____ m², Pavilion's registration number _____, and located in the International Pavilion "C_____".
3. The non-residential space is in a condition properly suitable for use. Parameters of all structural members, building envelope, utility systems, communication systems, and finishing correspond with the indicators specified in "Technical Data Sheet of Pavilion _____ (country)" attached to the Certificate.
4. Upon visual inspection, the Official Participant shall accept the non-residential premises, in which utility systems and finishing specified in the Technical Data Sheet of the Pavilion are present. No claims and deficiencies exist during acceptance. Should the non-residential premises being handed over be non-compliant with the Pavilion's Technical Data Sheet, the Official Participant is entitled to compose the list of deficiencies detected during visual inspection and acceptance of the non-residential space.
5. The present Certificate is made in _____ copies, one of which shall be given to the Exhibition Organiser, and the second - to the Official Participant.
6. The Technical Data Sheet of the Pavilion and list of non-conformances (if any) shall be the integral part of the Certificate.
7. Annexes:
 - 1) "Technical Data Sheet of Pavilion _____ (country)"
 - 2) List of Pavilion's deficiencies.

SEALS AND SIGNATURES OF THE PARTIES:

Lessor: _____ / _____ /
Lessee: _____ / _____ /