



**DISTRICT HEATING
SECTOR VISIT**

KAZAKHSTAN **ASTANA & KARAGANDA**

31 OCTOBER TO 4 NOVEMBER

In cooperation with Royal Danish Embassy, we invite you to join a Sector Visit to Kazakhstan. The visit will take place in the period 31 October to 4 November and will focus on the two cities: Astana & Karaganda

The event will be headed by the Danish Ambassador, Thomas Winkler, and run for one day in Astana and two days in Karaganda with focus on the district heating sector.



Kazakhstan has a population of approx. 17 million people, and the capital Astana is one of the fastest growing capitals of the world. The country is in world rank for natural resources, and Astana has been chosen to host EXPO 2017, which will focus on "Future Energy". This means that the Government will accelerate and initiate programs for energy efficiency and energy savings, taxes, tariffs, heat losses etc.

District Heating in Kazakhstan is based on heat & power stations with a combined production of heat and electricity (CHP). This type of heating systems are widespread in Kazakhstan, and operate in many cities. The cities which use district heating systems service more than 70% of the population. The existing combined heat and power (CHP) plants built in Kazakhstan are mainly from the period 1960-1980, and badly need an upgrade. Danish consultants are presently working in Kazakhstan, which will create good opportunities also for Danish technology providers.

The Sector visit will focus on Astana and Karaganda and secure that Danish participants will meet all relevant business partners in the district heating sector. In each city, the Danish ambassador and Akim will open the event at a Plenary Meeting attended by all key companies from the district heating sector, design institutes, district heating companies, business partners and news media.

Furthermore, we will arrange many networking activities, site visits and B-to-B meetings to secure that you will be informed about the ongoing projects in Karaganda and Astana, where there is a need for Danish solutions and equipment, and you will have the possibility to present your know-how and technical solutions.



ASTANA

Astana is located in the northern part of Kazakhstan and is the capital of Kazakhstan since 1997. The city has approx. 900,000 inhabitants (2014) and has grown from about 200,000 inhabitants, since the decision to make it to the capital.

JSC "Astana Energo Service" is the largest energy company and supplies both power and heat to the city. Astana Energo Service is 100% owned by Astana Akimat, and is the only region in Kazakhstan where supply is owned by the region. The Company is a holding company that has 8 subsidiaries, including:

- 1) Astana Teplotranzit (Transmission)
- 2) Astana Ergo (CHP TEC 1 and 2 TEC)
- 3) Astana Regional Electric co. REK
- 4) Energo spit (builds and renovates)

KARAGANDA

Karaganda is situated in the Eastern part of central Kasakhstan. Karaganda is the largest city in the Karaganda region, and has approx. 500,000 citizens. The entire population of the region is approx. 1,4 mio. The heat is produced by 8 CHP plants with a heat capacity of 3925Gcal/h and 70 boilerstations producing 1227 Gcal/h. The transmission lines are 765 km and the distribution lines are 1900 km.

In Karaganda, Rambøll has made a feasibility study for the district heating project "Karaganda District Heating Network Reconstruction Project" The proposed Project aims to modernize the district heating system in Karaganda city to ensure security of heat supply, reduce technical and commercial losses, and enhance operational efficiency.

The Project has three main components:

1. Reconstruction and replacement of main and distribution pipelines and pumping stations,
2. Installation of individual and central heating points and substations, metering, and a supervisory, control and data acquisition (SCADA) system;
3. institutional capacity building and awareness campaign.

Components of the project addresses Danish exporters, eg. pre-insulated pipes, user installations, group substations, pumping stations, frequency converters, SCADA systems etc.

The project has been technically approved by the Government, however the loan financing is lacking due to the decreased currency. Rambøll has also made a so-called "Do Nothing Scenario", which means that many smaller projects giving the higher value on the short term will be implemented if there is the lack of financing for the large project.

PRELIMINARY PROGRAM

30 & 31 October

Individual travelling to Karaganda

1 November

Morning:

Opening Plenary Meeting

Venue: Akimat of Karaganda

Participants:

Danish side: Danish Ambassador Thomas Winkler and DBDH delegation

Kasakh side: Akimat of Karaganda, relevant Ministry and Departments, City and Oblast, Administrations.

Design institutes, Contractors, Utility companies.

Presence of mass media.

Preliminary Agenda:

Registration and welcome coffee. Roll up exhibition. Networking.

Ambassador Thomas Winkler and Akim of Karaganda greets the companies

Presentation by Karaganda: Priorities of the region concerning development of district heating, and present status of district heating systems

Presentation by DBDH and delegation

Lunch break - Roll up exhibition & networking

Afternoon:

B-to-B Meetings with stakeholders of the sector: Utilities, District Heating companies, Design institutes, Developers, Contractors, GKH, City Administration

2 November

B-to-B Meetings with stakeholders of the sector: Utilities, District Heating companies, Design institutes, Developers, Contractors, GKH, City Administration

Departure for Astana

PRELIMINARY PROGRAM (CONTINUED)

3 November

Morning:

Opening Plenary Meeting

Venue: Akimat of Astana

Participants:

Danish side: Danish Ambassador Thomas Winkler and DBDH delegation

Kasakh side: Akimat of Astana, relevant Ministry and Departments, City and Oblast, Administrations.

Design institutes, Contractors, Utility companies.

Presence of mass media.

Preliminary Agenda:

Registration and welcome coffee. Roll up exhibition. Networking.

Ambassador Thomas Winkler and Akim of Astana greets the companies

Presentation by Astana: Priorities of the region concerning development of district heating, and present status of district heating systems

Presentation by DBDH and delegation

Lunch break - Roll up exhibition & networking

Afternoon:

B-to-B Meetings with stakeholders of the sector: Utilities, District Heating companies, Design institutes, Developers, Contractors, GKH, City Administration

4 November

Individual departures



TRAVEL ARRANGEMENT (FROM DENMARK)

30 October

13.05-17.30, Copenhagen-Moscow (SVO) SU2659

22.15-04.55+1 (Moscow (SVO)-Karaganda, arrive 31 October

2 November

Karaganda-Astana by train or bus

4 November

07.25-08.10 Astana-Moscow (SVO)

11.35-12.15 Moscow (SVO)-Copenhagen

Price will depend on time of booking, but is approx. DKK 4,100 incl. taxes. Contact Susanna Vazquez, BCD Travel, at tel. 3915 4588 for booking.

Hotels in Karaganda & Astana will be arranged Royal Danish Embassy. The price level is approx. DKK 700-1200 per night.

PRICES

The price for participation will be DKK 16,000 per company. This price includes all shared costs of the project, local transport and buffet lunches according to the program. Only individual costs like travel, accommodation and optional dinners are not included

DO YOU WANT TO JOIN?

The registration form must be filled out and returned to the DBDH secretariat before 30 August, 2016. If you need further information, please do not hesitate to contact us.

[REGISTER HERE](#)

Best regards



Svetlana Chernova
Royal Danish Embassy



DBDH Pia Zimmermann
DBDH