

EnergyTours Program Slovakian Business Delegation

21-22 September 2011

EnergyTours invites you to experience the Danish energy revolution first hand. We will create a program that is tailored to your current needs and challenges in the industry, helping you solve your problems of the future. Furthermore, we will organize meetings with the decision makers and leaders in the different technologies of your defined areas of interest.

DAY 1 21 September 2011

Morning **Visit to the Danish Energy Agency**

By establishing the correct framework and instruments in the field of energy, it is the task of the Danish Energy Agency to ensure security of supply and the responsible development of energy in Denmark from the perspectives of the economy, the environment and security.



www.ens.dk

The Danish Energy Agency is an Agency under the Ministry of Climate and Energy and carries out tasks, nationally and internationally, in relation to the production, supply and consumption of energy - as well as the efforts to reduce emissions of greenhouse gases.

Location: Copenhagen

Noon **Meeting with Burmeister & Wain Energy A/S**

Burmeister & Wain is an international Hi-Tech company specialized in the design, erection and commissioning of Ultra Super Critical (USC) steam boilers for utility power stations and biomass fired boilers for green power generation and district heating.



www.bwe.dk

BWE supplies complete boiler islands including Air Pre-Heaters, Low-NOx burners, FGD and deNOx installations etc. – either as flange-to-flange components or on turnkey basis.

Experience Danish technology *live!*

www.energytours.dk

BWE has a unique technology of co-firing biomass and coal. As a result of the high efficiency of the boilers, the sophisticated auxiliary equipment and the suitability of the design for future CCS, BWE is a world leading partner in the Clean Coal Technology.

BWE also designs, supplies, erects and commissions various types of 100% biomass fired boilers and firing systems in the unit range of 15-400 MWe. Various types of fuels in the form of bales (straw, corn, etc) or chips (wood, nut shells, etc) as well as pelletized biomass can be applied.

Location: Kgs. Lyngby

Afternoon **Visit to the Danish Board of District Heating (DBDH) and The Metropolitan Copenhagen Heating Transmission Company (CTR) with possible participation from ABB**

Today, almost 60 % of the Danish population enjoys the benefit of being connected to clean and efficient district heating systems.

Combined heat and power production, and surplus heat from the industry are used simultaneously to supply large scale district heating networks. Interconnecting these heat sources provides the possibility to shift between various fuels such as coal, oil and natural gas, and to use indigenous resources such as waste and biofuels.

This flexible system configuration maximizes security of supply, increases efficiency and reduces fuel costs. In this way, Danish experience demonstrates that district heating can be economically advantageous, environmentally safe, and extremely dependable.

Location: Frederiksberg



DBDH is a private organization representing the leading actors within the Danish district heating industry.

CTR is a partnership formed in 1984 by the municipalities of Frederiksberg, Gentofte, Gladsaxe, Copenhagen and Tårnby.

ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact.

www.dbdh.dk

www.ctr.dk

www.abb.dk

Experience Danish technology *live!*

www.energytours.dk

Evening **Dinner suggestion (at own expense) –
Restaurant Nimb in Tivoli**

Tivoli will be the world's first amusement park, operated by renewable energy. Tivoli will secure that the energy used by the park are covered by CO₂ – neutral production by taking ownership of one of the three new wind turbines built by DONG Energy in 2009.

Location: Copenhagen



www.tivoli.dk/nimb.dk

DAY 2 22 September 2011

Morning **Waste-to-Energy (WtE)**
- Visit to Amagerforbrænding

Every day of the year Amagerforbrændingen relieve the inhabitants and companies of the five capital municipalities Dragør, Frederiksberg, Hvidovre, Copenhagen and Tårnby of their waste and supply energy to their households in return. In total this amounts to 420,000 tons of waste which is converted into electricity and district heating supplying approximately 100,000 households. The tour includes a thorough look into the WtE-technology.

Location: Copenhagen



www.amfor.dk

Noon **Visit to Kgs. Nytorv – district cooling with
possible participation from Logstor**

A district heated area in inner Copenhagen that is currently also being upgraded for district cooling. For cooling purposes, the system uses existing cooling water from electricity production or low-temperature water from the sea or ground water, which has obvious advantages over traditional electricity-driven air conditioning systems.

Location: Copenhagen



www.logstor.dk
www.ke.dk

Experience Danish technology *live!*

www.energytours.dk

Afternoon Visit to Rambøll

Ramboll is a leading engineering, design and consultancy company founded in Denmark in 1945. Today, we employ more than 9,000 experts with a strong presence in Northern Europe, India, Russia and the Middle East.



www.ramboll.com

Rambøll Denmark offers multidisciplinary consultancy services within: buildings and design, infrastructure and transport, environment and nature, industry, oil and gas, IT and telecom, management and society and not least energy and climate

We have a solid selection of solutions and cases to present in Denmark and we understand from our international experience how the Danish concept of legal, institutional, financial and technical solutions can be utilized most efficiently world-wide to the benefit of our climate.

Location: Copenhagen

**Evening Dinner suggestion (at own expense):
The Royal Danish Playhouse**

The new building encompasses the most modern energy savings technologies. The energy concept for the new playhouse contains thermal active structures with energy storage, sea water cooling with heat pump and demand driven ventilation. Saving on electricity consumption for cooling amount to more than 75%.

Location: Copenhagen



The Royal Danish Playhouse in Copenhagen is Denmark's new stage for the dramatic arts. Every aspect of the playhouse has been custom designed to offer audiences the ultimate in theatrical experience.

www.kglteater.dk

Experience Danish technology *live!*

www.energytours.dk

A few facts on Denmark

Area: 43,094 sq km

Population: 5.38 million

Capital City: Copenhagen (pop 1.8 million)

People: 95% Danish; 5% foreign nationals

Climate: Temperate

Religion: Lutheran

Government: constitutional monarchy

Head of State: Queen Margrethe II

Head of Government: Prime Minister Lars Løkke Rasmussen

GDP per capita: US\$46,335

Inflation: 2.1%

Major Trading Partners: EU (esp. Germany, Sweden, UK, Netherlands, France and Italy), USA

Languages: Danish, Faeroese, Inuit dialect (Greenland), German (esp. southern Jutland) - English is the predominant second language

Labour force: 2.863 million (54% men, 46% women)

Labour force by occupation: services 79%, industry 17%, agriculture 4%

Labour force by sector: private 65%, public 35%

Currency: 1 Danish krone (DKK) = 100 øre

Exchange rate: 1 Euro = 7.45 DKK

1 US\$ = 5.63 DKK (as per 8 December 2010)

Fiscal year: calendar year

Number of commercial ports: 130

Number of airports (with paved runways): 28

Telephones – main lines in use: 4.785 million

Telephones – mobile cellular: 4.401 million

Internet users: 2.756 million

Denmark is a member of EU, UN, NATO, OECD, WTO, IMF and the Nordic Council

More information on Denmark can be found on www.VisitDenmark.com

Experience Danish technology *live!*

www.energytours.dk