



May 09, 2018 10:48 CEST

Chinese and Danish key district heating experts join forces in building a more efficient energy system

The finest experts on heat planning in China and Denmark are working together in an expert panel created as a part of the Sino-Danish pilot project on energy efficient district heating. The panel held the first meeting this week.

The aim of the expert panel is to act as advisors to a pilot project for heat planning and validators of the recommendations given to the project. Furthermore the aim is to create links between the members of the expert

panel in order to improve the aggregated knowledge and make the foundation for a Sino-Danish district heating knowledge network.

District heating as a key for a more efficient energy system

Both China and Denmark see district heating as an important solution for reducing emissions, make the energy system more effective and for integrating renewable technologies. District heating will and has been one of the main solutions in the effort to keep economic growth and in the same time reduce energy use and impact to environment and climate.

Guidelines for heat planning

The pilot project will demonstrate how dedicated heat planning can evaluate different scenarios for heating and finding the best solutions both regarding economy and environment by considering consumer prices, local economy, company economy and social economy. It is important that the society's costs from pollution are a part of the overall calculations. Otherwise the chosen solutions may be expensive for society, which has to finance costs from the environmental impacts.

This first meeting mark the beginning of a two and a half year's cooperation with the expert panel aiming to bring new ideas and methods benefitting the pilot project and both China and Denmark.

Develop heat scenarios for two areas

The pilot project is going to develop heat scenarios for two towns in the Shaanxi province, Tongchuan North and Yijun in corporation with the authorities in the region and in the towns. The towns are today primarily heated with individual coal boilers or stoves and natural gas boilers. There is potentially both excess heat and biomass residues available in the areas.

Experts' expectations for the pilot project and hopes for the expert panel?



When asked about the experts' expectations and hopes for the expert panel two experts answered the following:

“I would expect to see heat planning methodology in the small cities by fully considering the matching with the demand side and supply side (local resources) with the different situation. And for the expert panel, I would like to work with the experts on how can we set up a reasonable evaluating indicators for the heat planning, how to improve the heating system efficiency, and work on the new technologies for the district heating system.” Xia Jianjun Associate Professor, School of Architecture, Tsinghua University.

“It is my hope that the pilot project can demonstrate an easy way for authorities to establish systematic heat planning in existing small and large town areas considering renewable sources, excess heat or other efficient heat sources. For the expert panel it is my hope that both the Chinese and the Danish experts can improve the proposed heat planning model, can refine the planning model to a Chinese context and find technical and political suggestions for future heat planning methodology benefitting both countries.” John Tang, Long Term Advisor for the Danish Energy Agency's collaboration with China.

The participants in the Sino-Danish Expert Panel are:

Denmark:

- Lars Gullev, Managing director of VEKS (CHP in Denmark) and previously Chairman of DBDH
- Henrik Lund, Professor at Aalborg University
- John Tang, Long termed advisor at the Danish Energy Agency, previously consultant at Danish District Heating

China

- Jiang Yi, Academician at Chinese Academy of Engineering/
Professor at Tsinghua University / Ph.D.Xia
- Jianjun Associate Professor, School of Architecture, Tsinghua University
- Niu Xiaogu China City Heating Association Deputy Secretary-
General Professor level senior engineer
- Sun Chunxiao: Deputy Director of Shaanxi ECC

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The Danish Energy Agency is responsible for tasks linked to energy production, supply and consumption, as well as Danish efforts to reduce carbon emissions. The Agency is also responsible for supporting the economical optimisation of utilities that in addition to energy includes water, waste and telecommunication.

We are also responsible for user conditions, supply obligation and telecommunication statistics, as well as water supply and waste management.

The Danish Energy Agency was established in 1976, and is an agency under the Ministry of Climate, Energy and Utilities.

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