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Good heat planning methods are pivotal for an economic sound green transition in China

The Danish Energy Agency (DEA) and their Chinese partner National Energy Conservation Center (NECC) have held the first targeted workshop on heat planning in Beijing, China. The aim of the workshop was to share information about the Sino-Danish Pilot Project on Energy Efficient District Heating and discuss heat planning methods in both China and Denmark and build heat planning and analysing capacity for the participants (advisors, government institutions and universities).

China has decided ambitious climate – and environmental targets in their five year plan. To fulfil the targets China is going to increase the overall energy efficiency and as a result reduce the use of especially coal. Heat planning for high efficient district heating systems in towns using waste energy, surplus energy and new renewable technologies, is proven to be a way to fulfil the targets. Denmark has developed a heat planning tool based on Danish experiences to demonstrate the Danish approach to make efficient district heating systems. This Danish District Heating Assessment Tool (DHAT) is in a Sino-Danish project going to be adapted to Chinese circumstances.



Include environmental costs and a long termed perspective in heat planning guidelines

Ideas and methods behind the Danish District Heating Assessment Tool were presented at a workshop arranged by NECC and DEA. The discussions showed that a deeper understanding of the benefits from careful heat planning in future has to be enlightened. The workshop also showed that legislative heat planning actions on regional or governmental level could improve the process towards an energy efficient society. A cost benefit approach including environmental costs can improve the quality of decisions and make the long term energy systems more sustainable. The discussions after the presentations also showed some of the difficulties in heat planning regarding

appointing suitable areas for heat planning, regarding how to find alternative heat sources and also a wish to go deeper into the methods presented.

Pilot Project on Energy Efficient District HeatingThe workshop is part of a larger pilot project where the District Heating Assessment Tool will be improved and adapted to Chinese circumstances demonstrating how it can be used as a screening tool in selected areas of Tongchuan City of Shaanxi Province. This is done in close collaboration with Chinese partners on both national, provincial, city and even village level. The projects approach and recommendations are guided by the Sino- Danish Expert Panel. The pilot project started in mid-2017 and will end mid-2020.

[Read about the background for the pilot project.](#)

[Read about the Sino-Danish Expert Panel.](#)

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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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