



**CASE  
STUDY**

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Clean Energy

## **Anshan, Liaoning Province - Restructuring district heating with heat recovery**

Anshan in Liaoning province, in the cold to severe cold climate zone of China. The inner city has 1.8 M residents and a large heating area of 53 million m<sup>2</sup>. In the initial situation coal fired boilers of 2050 MW<sub>th</sub> supplied a separated and unbalanced network. In the future, a district heating transmission line utilizing heat from CHP and surplus heat from steel plant and the geothermal sources will supply yearlong district heating supply also for domestic hot water, in pooled balanced networks. This will stabilize heat supply, increase energy efficiency and reduce CO<sub>2</sub> emissions supplying energy to the city by simply recovering energy that is already available but wasted, clean the urban air and improve indoor climate. The programme is developed in close cooperation with Anshan City Government, Angang Steel and the District Heating Companies. The investment is expected to be amortized by reduced operating cost in a couple of years. The restructuring project started in September 2013. After the completion of phase I, 173 thousand ton coal consumption has been saved, CO<sub>2</sub> emission 239 thousand tons, annual saving of operation cost of 60 million CNY. The investment is between 0.2~0.25 billion CNY, while the payback period is estimated to be 3-4 years.

### **Restructuring district heating- Inauguration Ceremony**



Source: [http://bao.hvacr.cn/201309\\_2039622.html](http://bao.hvacr.cn/201309_2039622.html)

## References

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## Credentials

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