



CASE
STUDY

Case Study



Clean Energy

Tianjin, China - An Emerging Eco-City

Tianjin, in the cold climate zone, is hosting the large Sino-Singapore Tianjin Eco-city project. The Eco-City's vision is to be a thriving city which is socially harmonious, environmentally-friendly and resource-efficient. It is a flagship cooperation project between the governments of Singapore and China. It is planned for 350,000 residents, and focusses on decentralized urban land-use, Green Transport and Green Infrastructure. In terms of energy, Tianjin Eco City is focused on building energy with strong involvement of the supply side from district heating including CHP, and increasingly including geothermal energy and also solar PV on the electricity side.¹

Actually, other Tianjin districts outside the Eco-City, in particular the TEDA industrial area are also and specifically involved in clean energy activities. A special feature is an energy consumption monitoring platform of MoHURD in cooperation with the Tianjin construction bureau and with the numerous heat companies. This information would in theory allow better efficiencies in the system, and better pricing. This would mean that local DRC and Heat Companies play the game, and this is not yet the case. Another approach piloted in Tianjin is Building Level Sub-Station as a way to increase efficiencies in the systems.

¹ World Bank. 2009. Sino-Singapore Tianjin Eco-City: A Case Study of an Emerging Eco-City in China. Technical Assistance Report. Beijing.

References

World Bank. 2009. Sino-Singapore Tianjin Eco-City: A Case Study of an Emerging Eco-City in China. Technical Assistance Report. Beijing.
<http://documents.worldbank.org/curated/en/776301468029076278/pdf/590120WP0P114811REPORT0FINAL1EN1WEB.pdf>

The Anshan Project, A Chinese City Rethinking District Energy; Danfoss Presentation Information. www.danfoss.com;

UNEP District heating report http://www.unep.org/energy/portals/50177/DES_District_Energy_Report_full_02_d.pdf

http://www2.giz.de/wbf/4tDx9kw63gma/05_UrbanNEXUS_CaseStudy_Tianjin.pdf

Credentials

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