



Linköpings
kommun

Linköping

- the eco-efficient city



Linköping in the south of Sweden

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2009-12-01

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Target for the year 2020

- The consumption of fossil motor fuels will have fallen by 50 % compared with 1995
- At least 95 % of the electricity and heating in Linköping will be generated from renewable sources of energy



55 years of district heating

1954



1958



1964



1982



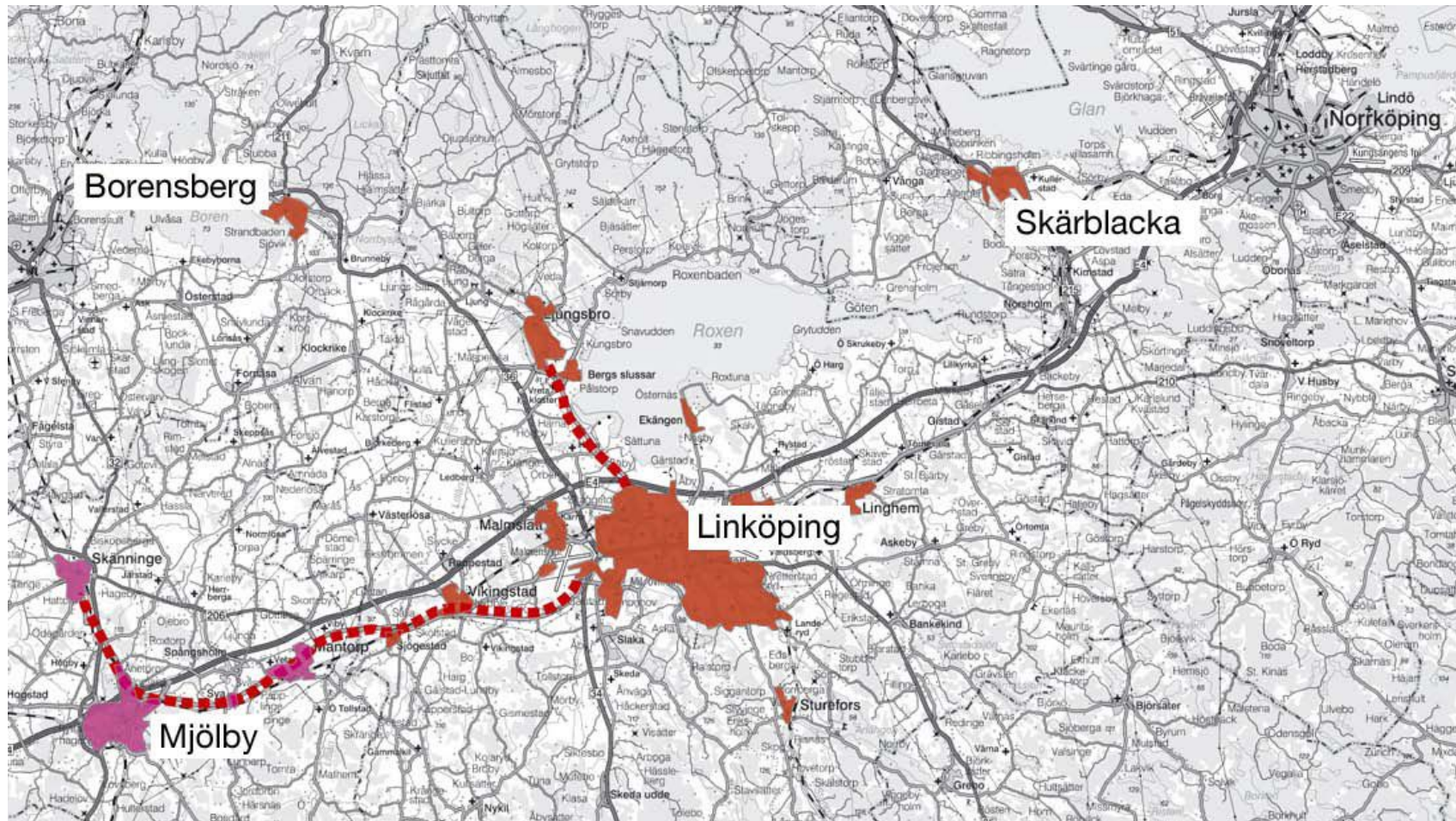
2007



2009-12-23



Regional district heating, 2000 the longest district heating pipeline in Sweden, 28 km





The best Swedish district heating company of the year 2004

”With 90 % of the heat production from sources which otherwise would have been lost Tekniska Verken has reached far to fulfill the idea of district heating in large scale”



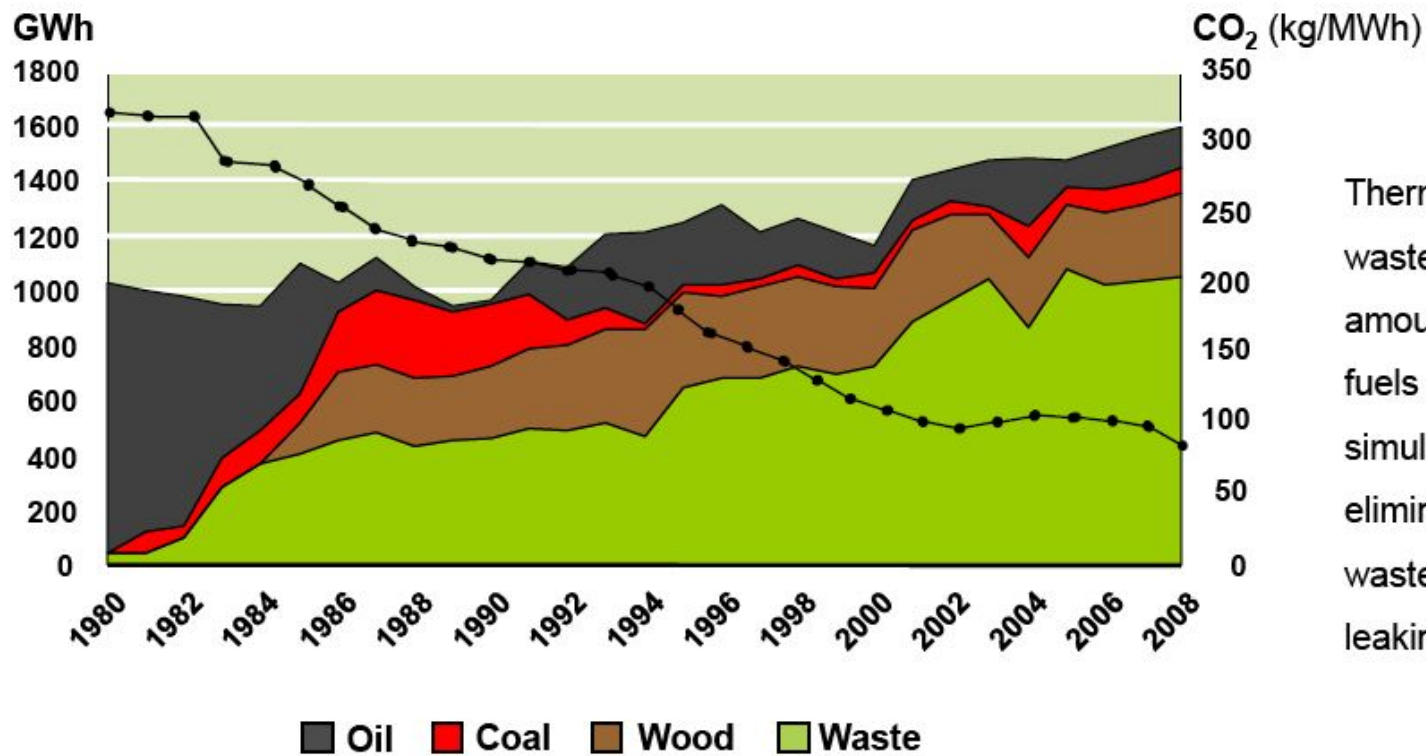


From waste to energy- or how to turn a problem into an asset





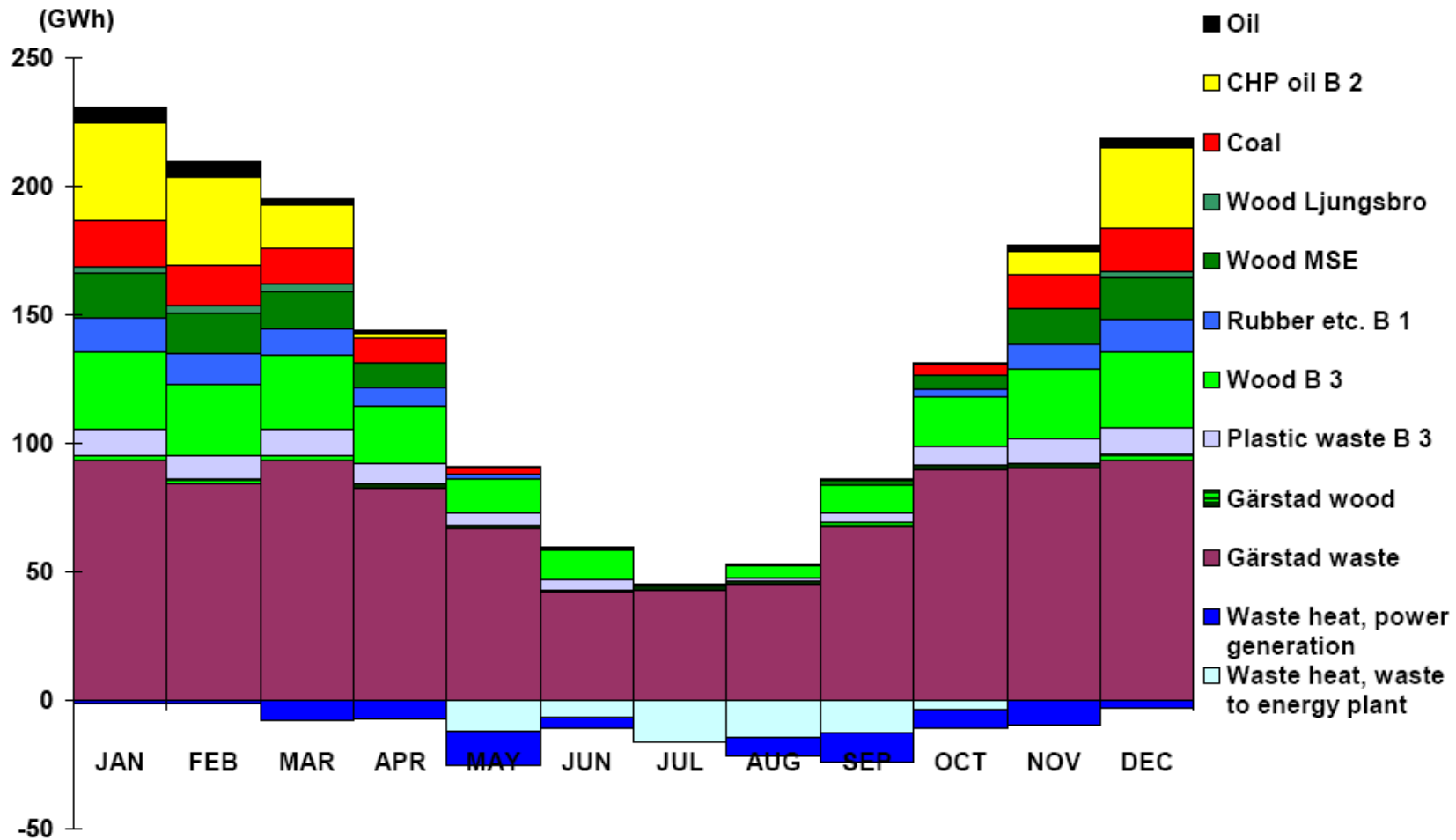
Substitution of fossil fuels, district heating in Linköping



Thermal treatment of waste replaces large amounts of fossil fuels while simultaneously eliminating growing waste mountains and leaking landfills



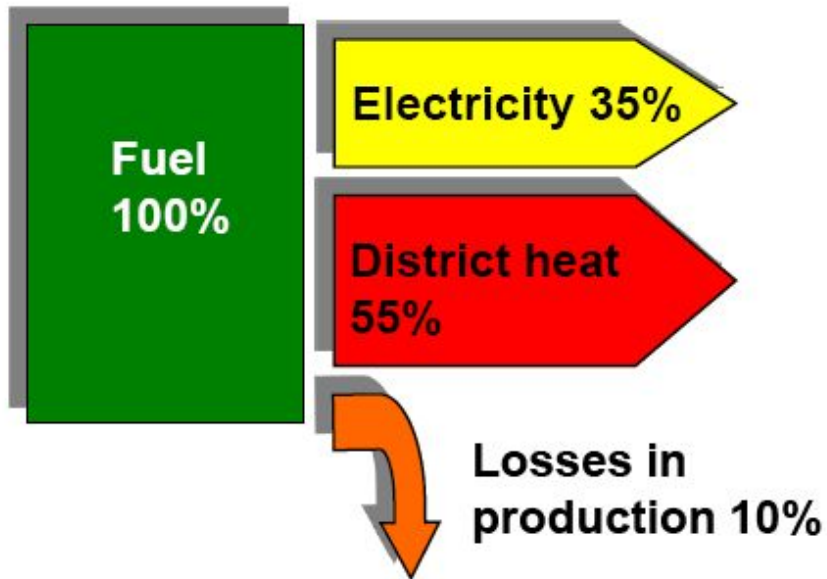
District heating in Linköping





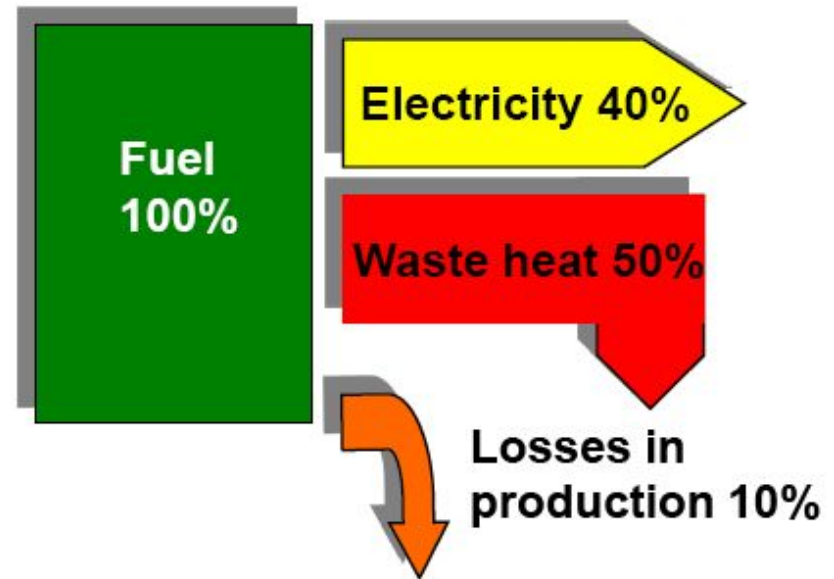
Thermal power production

Cogeneration



Total losses 10%

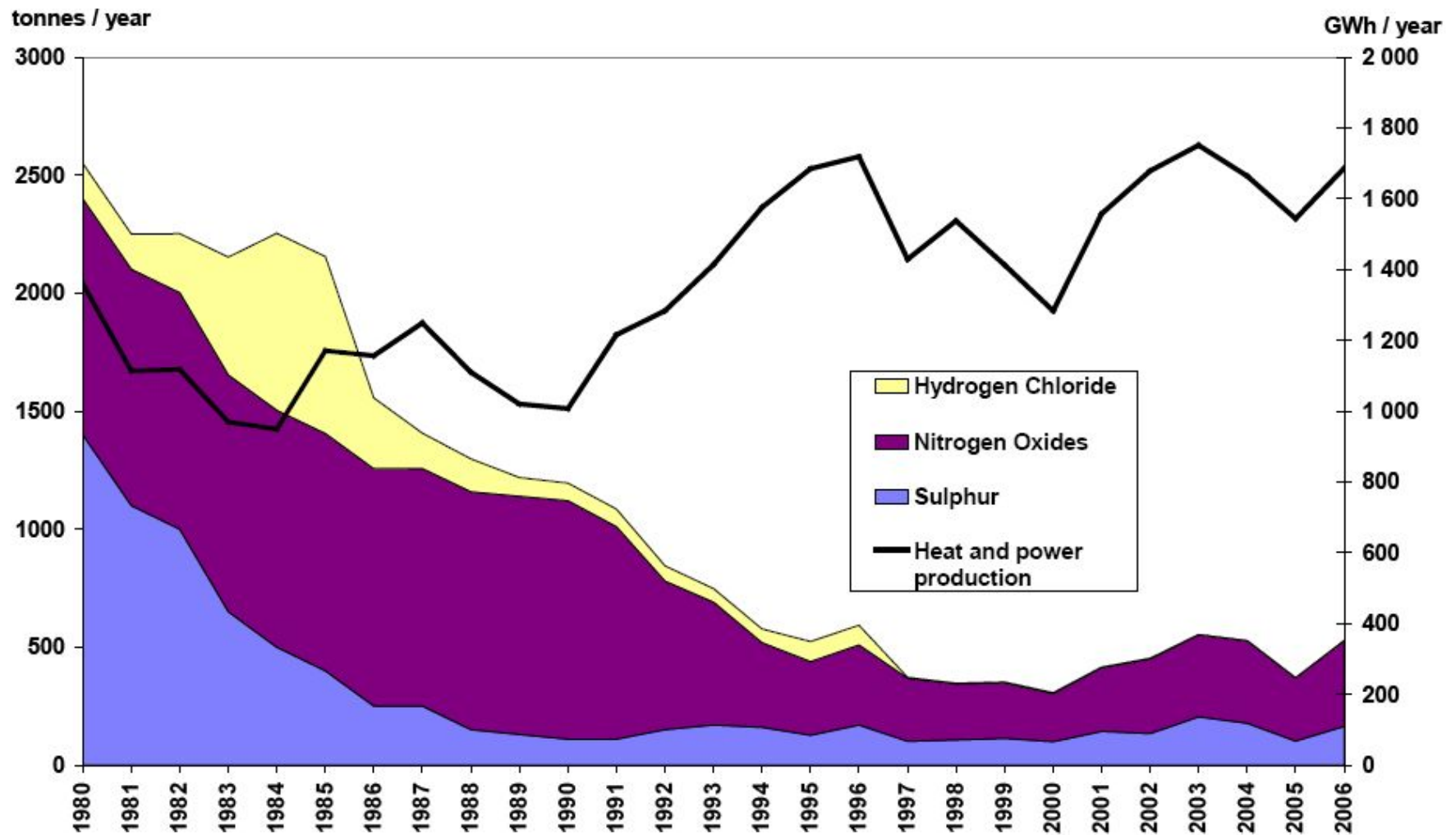
Condensing power



Total losses 60%



Acid emissions from energy plants in Linköping





3 combined heat and power plants in Linköping

Electricity production:

KV1	95 MW
Gärstad	68 MW
Tornby	<u>14 MW</u>
Total	177 MW

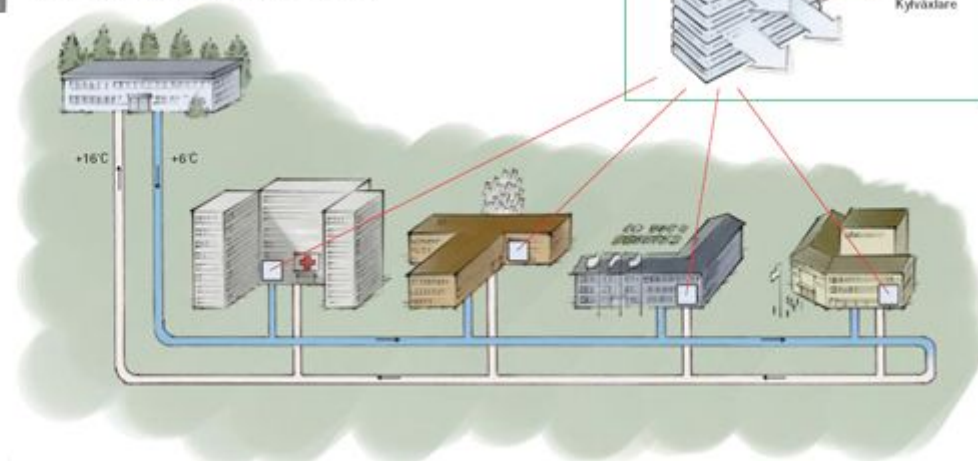




The next big thing – Central cooling



Produktionsanläggning





Thank you for your attention



Muharrem Demirok