

China Sustainable Cities

- energieffektivisering og eksportfremme

Ole M. Daugbjerg
Chief Reputation Officer
Danfoss A/S



Executive Committee

Jørgen M. Clausen
President & CEO

Niels B. Christiansen
Vice CEO

Kim Fausing
Executive Vice President & COO

Frederik Lotz
Executive Vice President & CFO

Corporate
Functions
&
Services

Danfoss
Ventures

Danfoss Refrigeration & Air Conditioning Division
Kjeld Stærk
President

Danfoss Automatic Controls
•
Danfoss Compressors
•
Danfoss Electronic Controls & Sensors

Danfoss Heating Division
Nis Storgaard
President

Danfoss Comfort Controls
•
Danfoss District Heating
•
Danfoss Burner Components
•
Danfoss Floor Heating
•
Danfoss Heat Pumps
•
Danfoss Water Controls

Danfoss Motion Controls Division
Sven Ruder
President

Danfoss Drives
•
Danfoss Gearmotors
•
Danfoss Silicon Power
•
Danfoss Solar Inverters



Owner share
38.2%

Danfoss Services Division
Roland Fritsch, President

Danfoss Global Business Services

Danfoss Industri Service

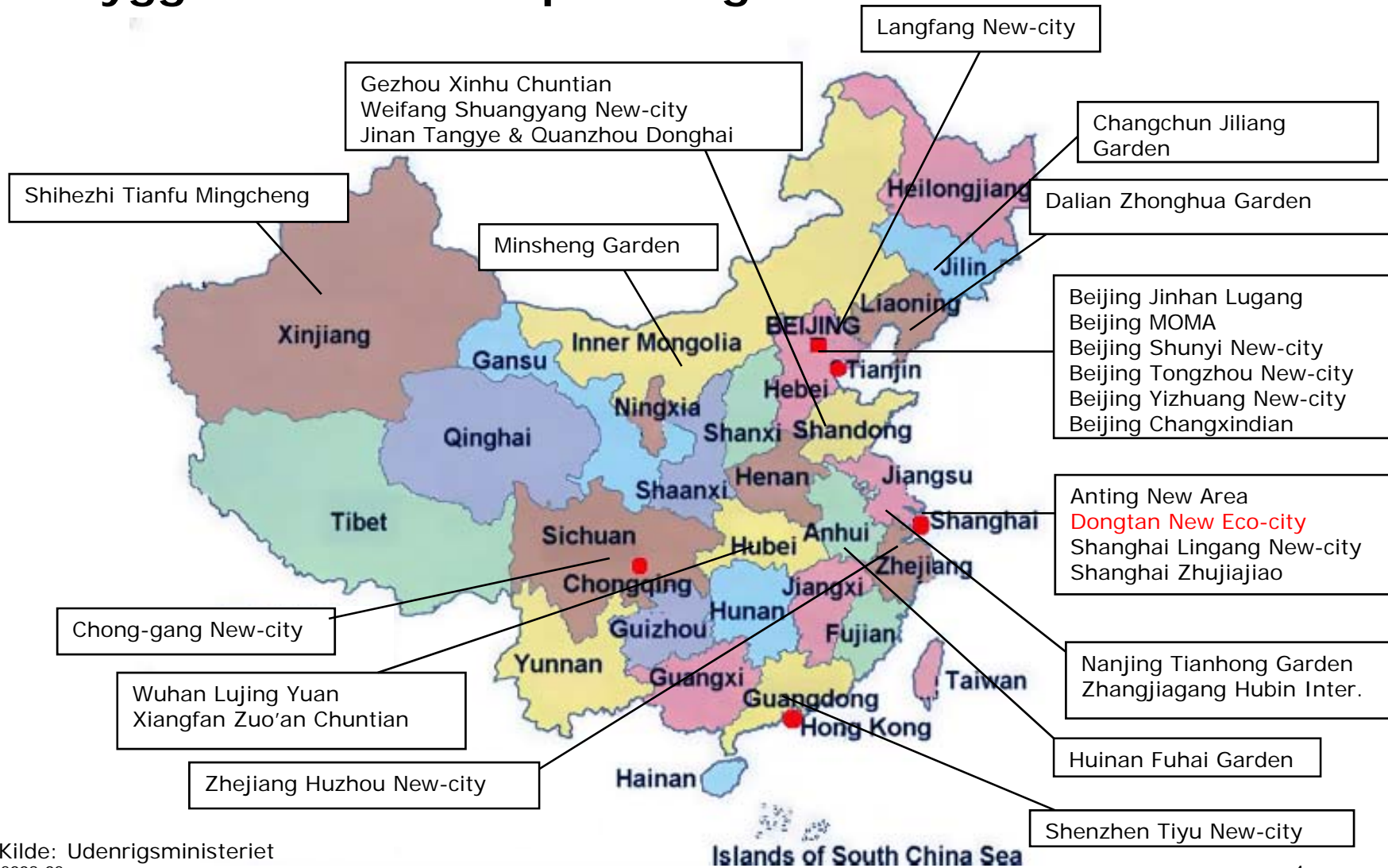
Danfoss IT

Koncerntal

- ❁ Danfoss er en familieejet, global virksomhed (ikke børsnoteret, men ca. 3% medarbejderaktier)
- ❁ Omsætning 2006: DKK 19.400 mio.
- ❁ Medarbejdere: 22.400 globalt (januar 2007)
- ❁ Produktion af 250.000 enheder om dagen

	Europa	Nord-amerika	Latin-amerika	Afrika	Asien	Pacific	I alt
Produktionssteder	50	12	2	1	5		70
Salgsselskaber	83	10	5	1	13	2	114
Forhandlere og distributører							~115

26 identificerede byprojekter med op til 1 mio. indbyggere med fokus på energi



Sustainable City China

Baggrund

Tanker i DI om fremme af dansk energiteknologi

Idé

Én bæredygtig by i Kina

Definition

En miljø- og energimæssig bæredygtig og sammenhængende by

Målsætning

En by baseret på modne, kommercielle energi- og teknologiske løsninger, der hver for sig og sammen bidrager til, at byen producerer, transmitterer, distribuerer og anvender energi så effektivt som muligt og samtidig minimerer den miljømæssige belastning

Sustainable City China

Teknologier/kompetencer

- Byplanlægning, trafik, infrastruktur og arkitektur
- Kraft- varme- og køleproduktion fra affalds-/kulfyrede kraftvarmeværker
- Produktion/anvendelse af energirigtige brændsler fx biomasse, halm, m.m. samt og sol- og vindenergi
- Transmission og distribution
- Energieffektivt byggeri/renovering,
- Cirkulering, regulering, aflæsning og afregning af energi
- Vandforsyning og vandrensning

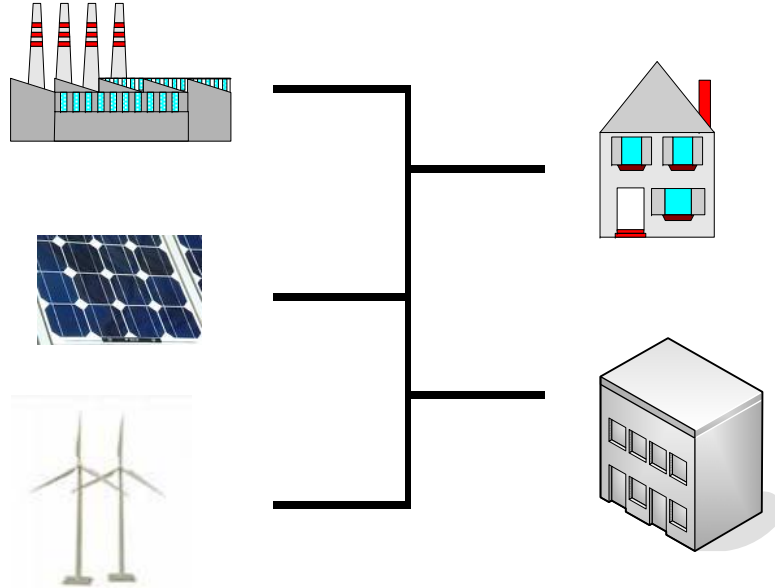
Videnssamarbejde

Projektet kan være et kompetencecenter, hvor vidensmiljøer, uddannelsesinstitutioner og virksomheder arbejder sammen og videreudvikler bæredygtige løsninger

Development of new urban area based on Danish competences within residential building



New urban area with app. 200 households



Comments

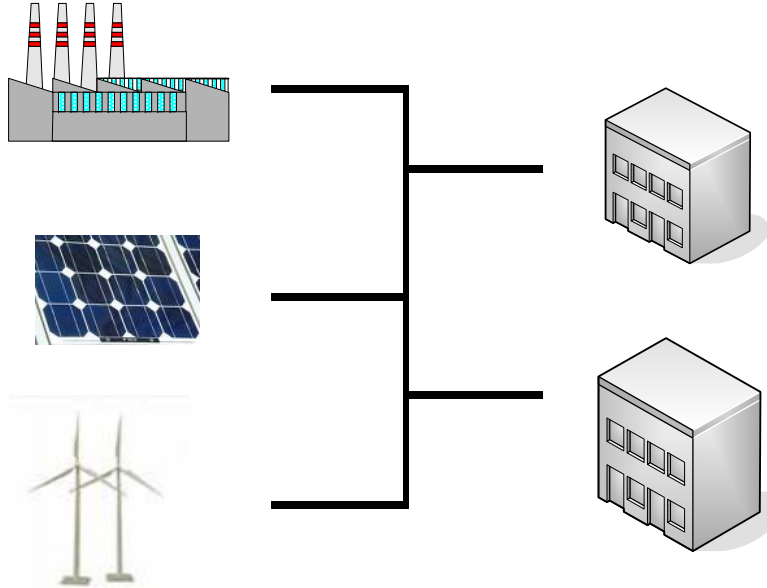
- The main idea is to combine Danish competences within architecture, urban planning, and energy industry
- Combining more competences opens of for a potential consortium consisting of more Danish players

- High efficient combined power and heating station, which could be fuelled by biomass or gas
- Solar panel station
- Central Heat pumps
- Wind power
- 1 or 2 family houses, town houses, blocks of flats, and potentially office buildings
- High efficient energy distribution system and decentral heating control (per household)

Combined new-build and renovation of app. 60.000 households based on Danish competences within residential and commercial buildings



Existing Urban area with app. 60.000 households



- High efficient combined power and heating station, which could be fuelled by biomass or gas
- Renewable energy sources, e.g. wind power
- Primarily renovation of existing housing stock, but new-build could be included
- Blocks of flats, office buildings and potentially 1 or 2 family houses

Comments

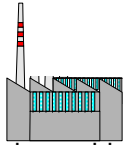
- The main idea is to promote Danish competence within renovation of existing housing stocks
- Renovation includes low energy windows, isolation, thermostatic radiator valves, etc.
- Combining more competences opens up for a potential consortium consisting of more Danish players

Development of new urban area based on Danish competences within residential building



New urban area with app. 200 households

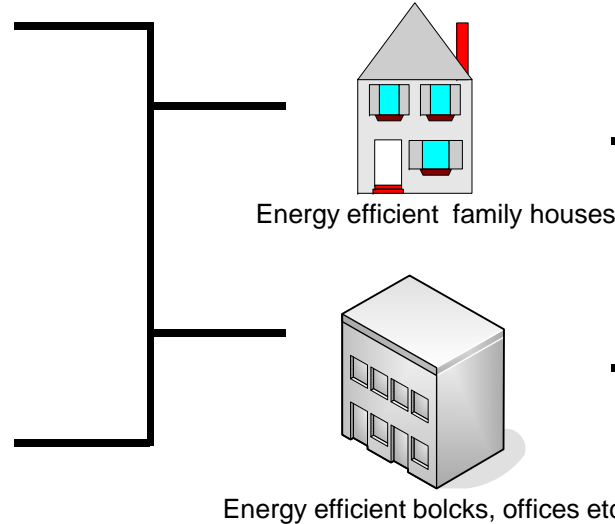
Small scale combined heat/power/cooling plant



Biomass



Solar heating/cooling



Infrastructure, architecture and urban planning



Efficient energiflow, use and measurement

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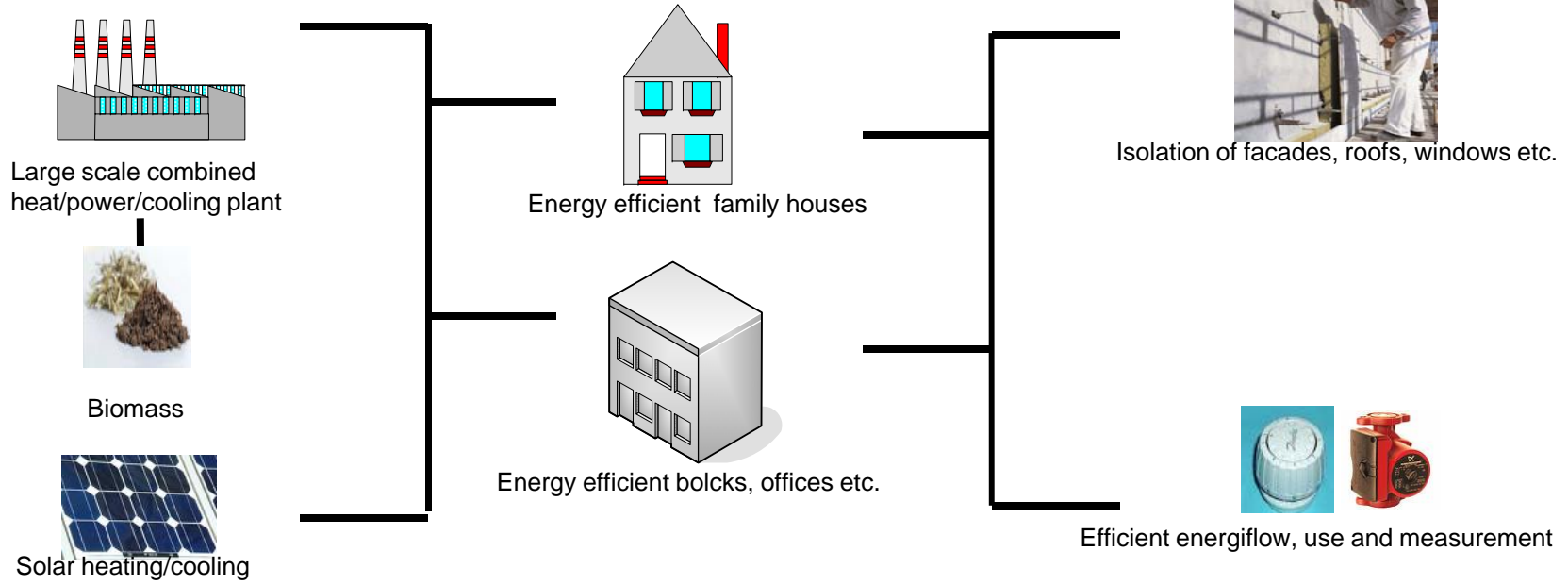
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Dansk konsortium

Tianjin?

Imod: Singapore og Frankrig har indgået aftale

- For:
- Attraktiv beliggenhed nær Beijing
 - Danfoss har indgået aftale om fjernvarmeteknologi

Finansiering?

Indskud betales af virksomhederne

Private – og offentlige fonde søges

Fundraising hos div. kreditter, programmer ...

What's in it for me?

Showcase af løsninger i kinesisk kontekst

Konklusion

Uden politisk – og økonomisk – støtte ...???

Spørgsmål?

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