

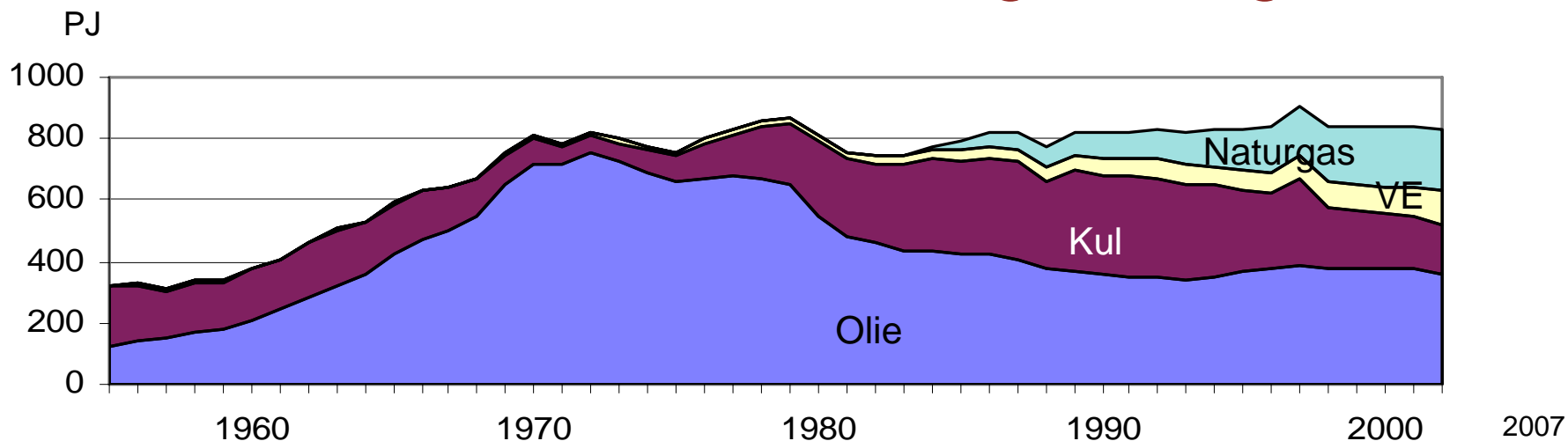
# Høring om fjernvarmen i det fremtidige energisystem

Torsdag d. 29. januar 2009

Helge Ørsted Pedersen  
Ea Energianalyse



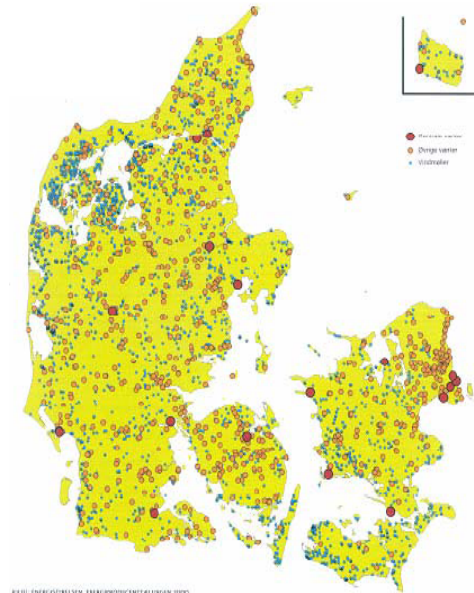
# Danmarks bruttoenergiforbrug



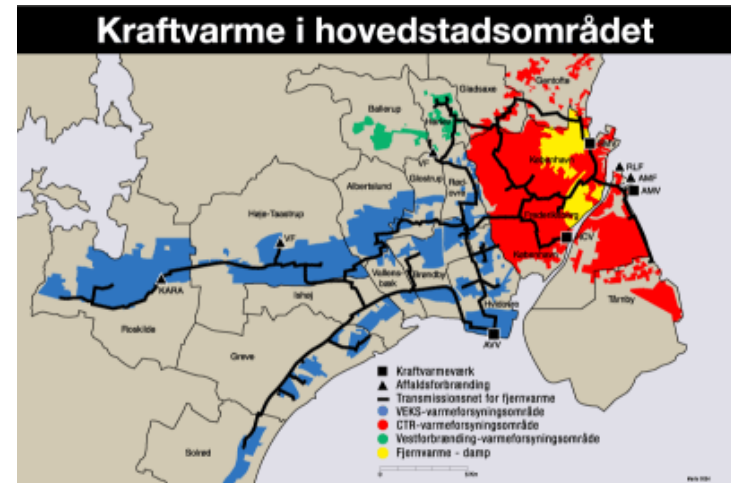
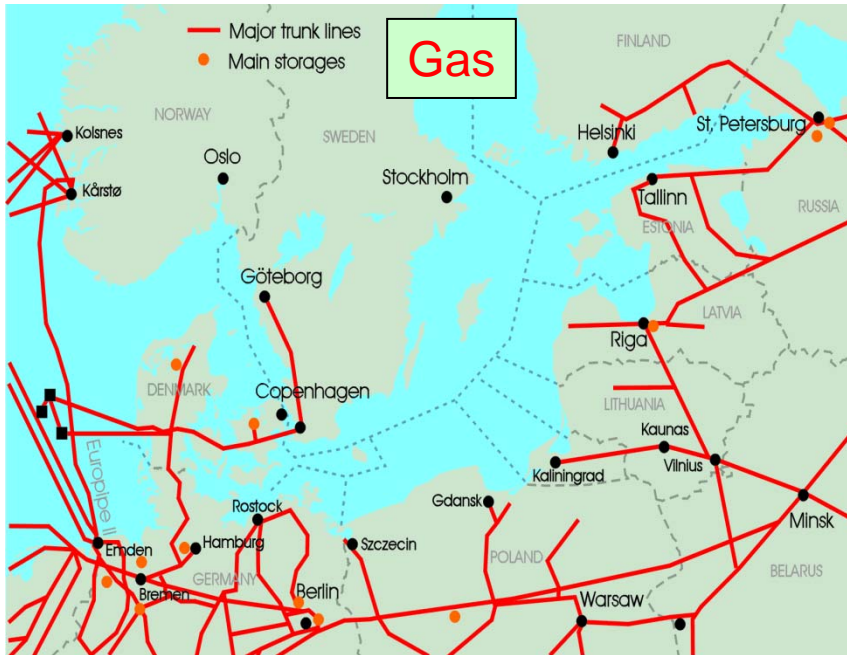
<i>Energipolitik</i>	Forsyningssikkerhed + Økonomi + Miljø + Klima		+ Beredskab
	Infrastruktur	Liberalisering	Organisation
Marked	Energi- og varmeplanlægning	Marked	+ Rammer
<i>Teknologiekspert</i>		5 mia. kr.	46 mia. kr.
<i>Selvforsyning</i>	0 %		145 %
<i>BNP</i>	100		150
<i>Fjernvarme</i>	0,7 mio. boliger		1,5 mio. boliger



# Infrastruktur

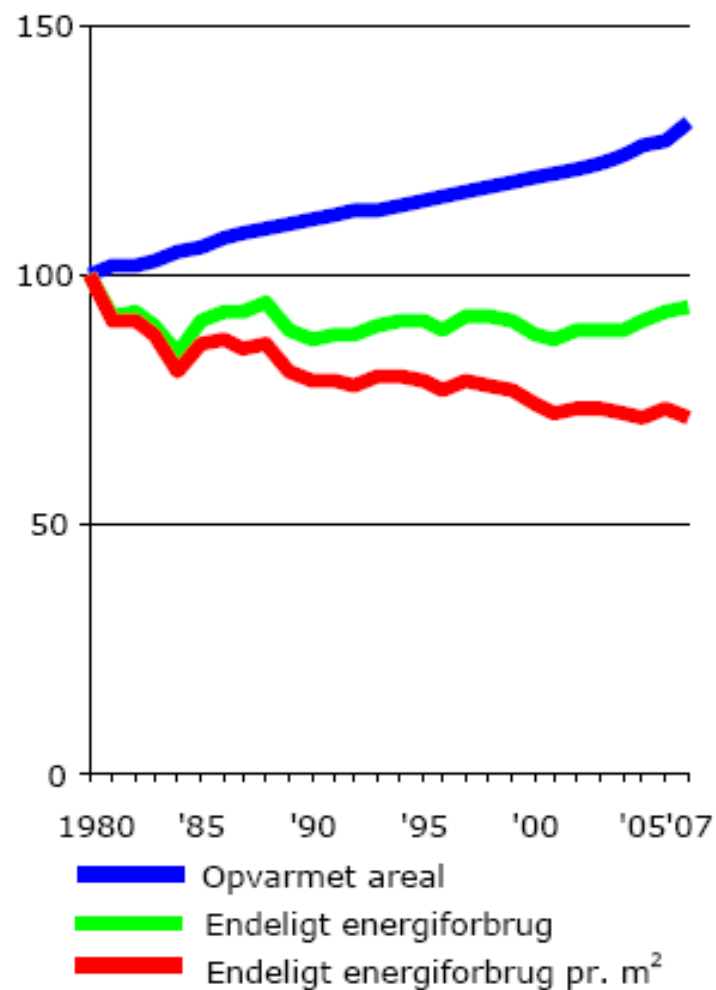


KLEI, ENERGIPLANEN - ENERGIPRODUKTIONEN 2000  
 ØSTLYS/ØSTLYS/ØSTLYS, ØST & ØSTLYS/ØSTLYS 2001



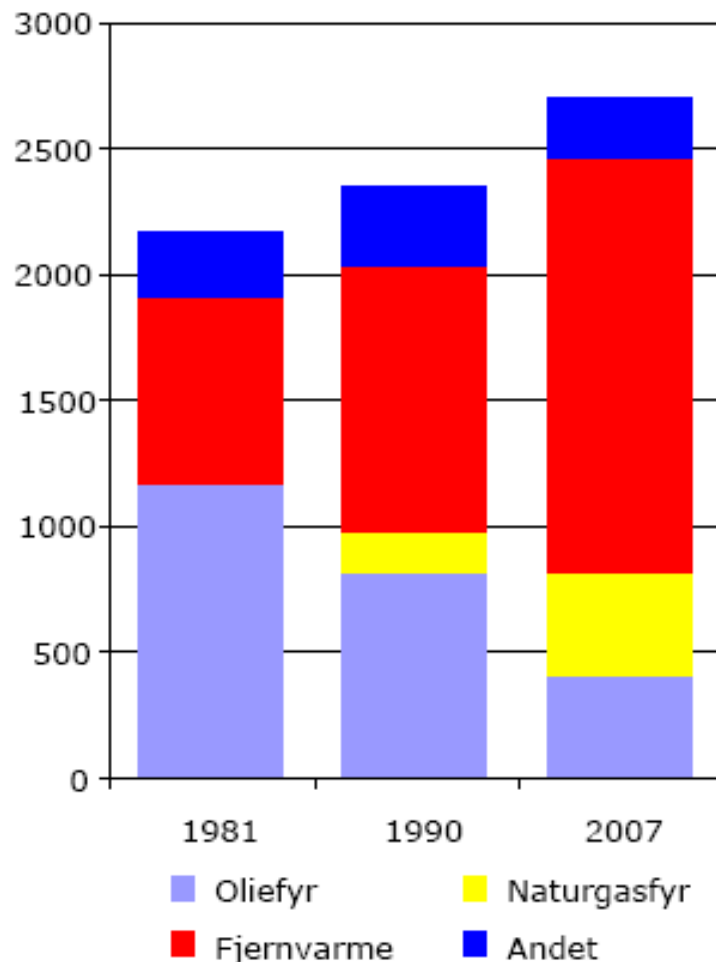
## Energiforbrug til rumopvarmning i boliger (Klimakorrigeret)

Indeks 1980=100

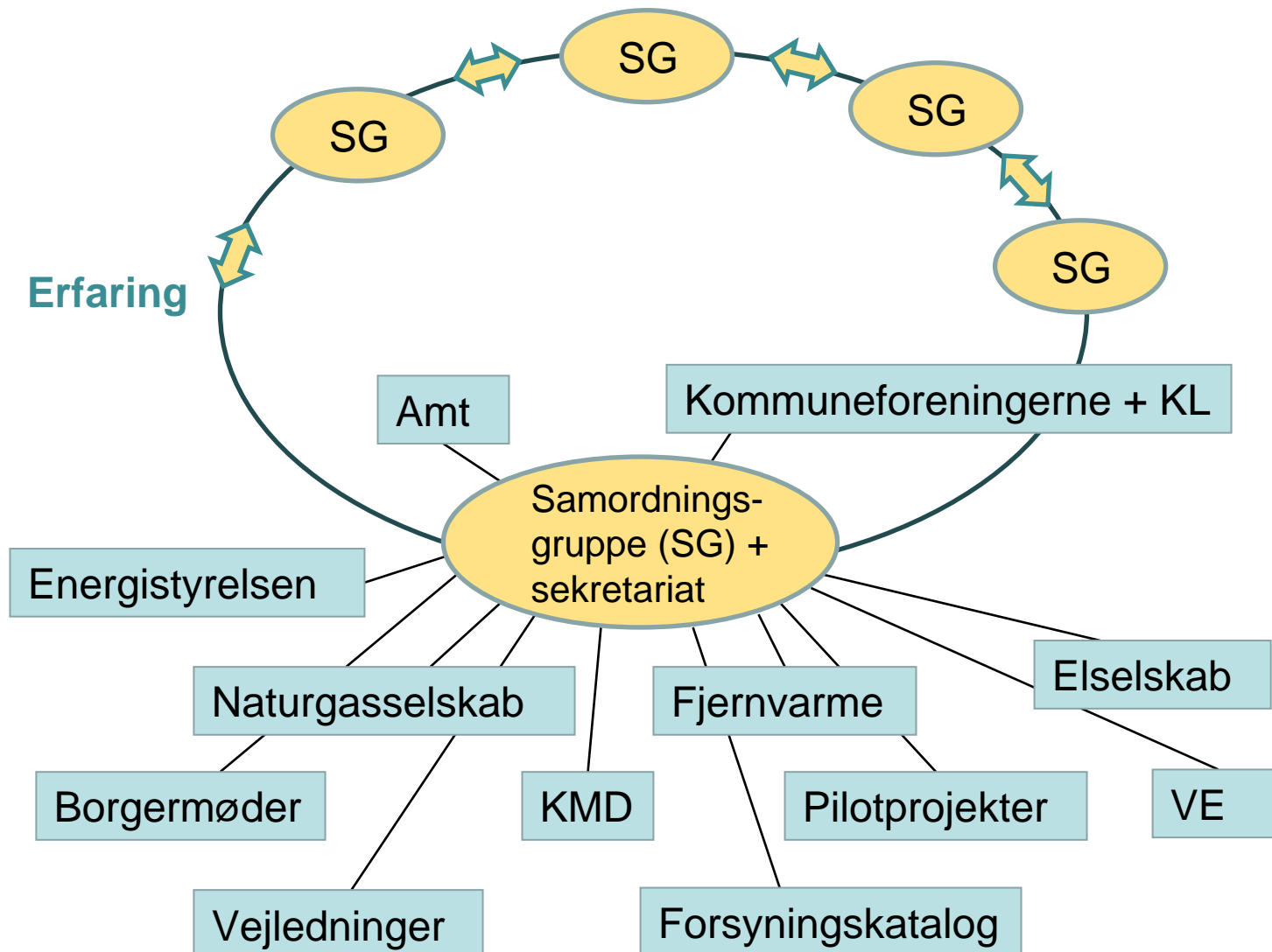


## Varmeinstallationer i boliger

1000 stk.



# Samordningsgrupper i varmeplanlægningen 1979-85

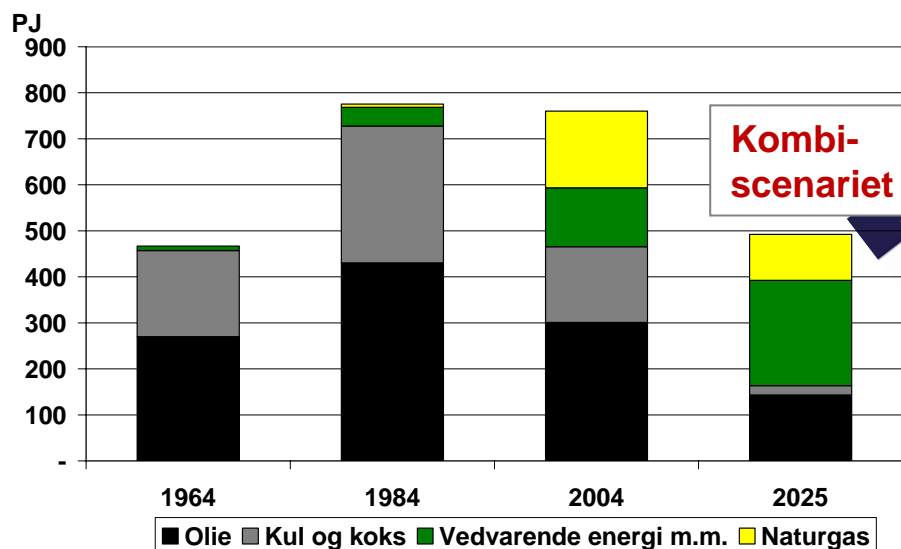


# Ændrede rammer...

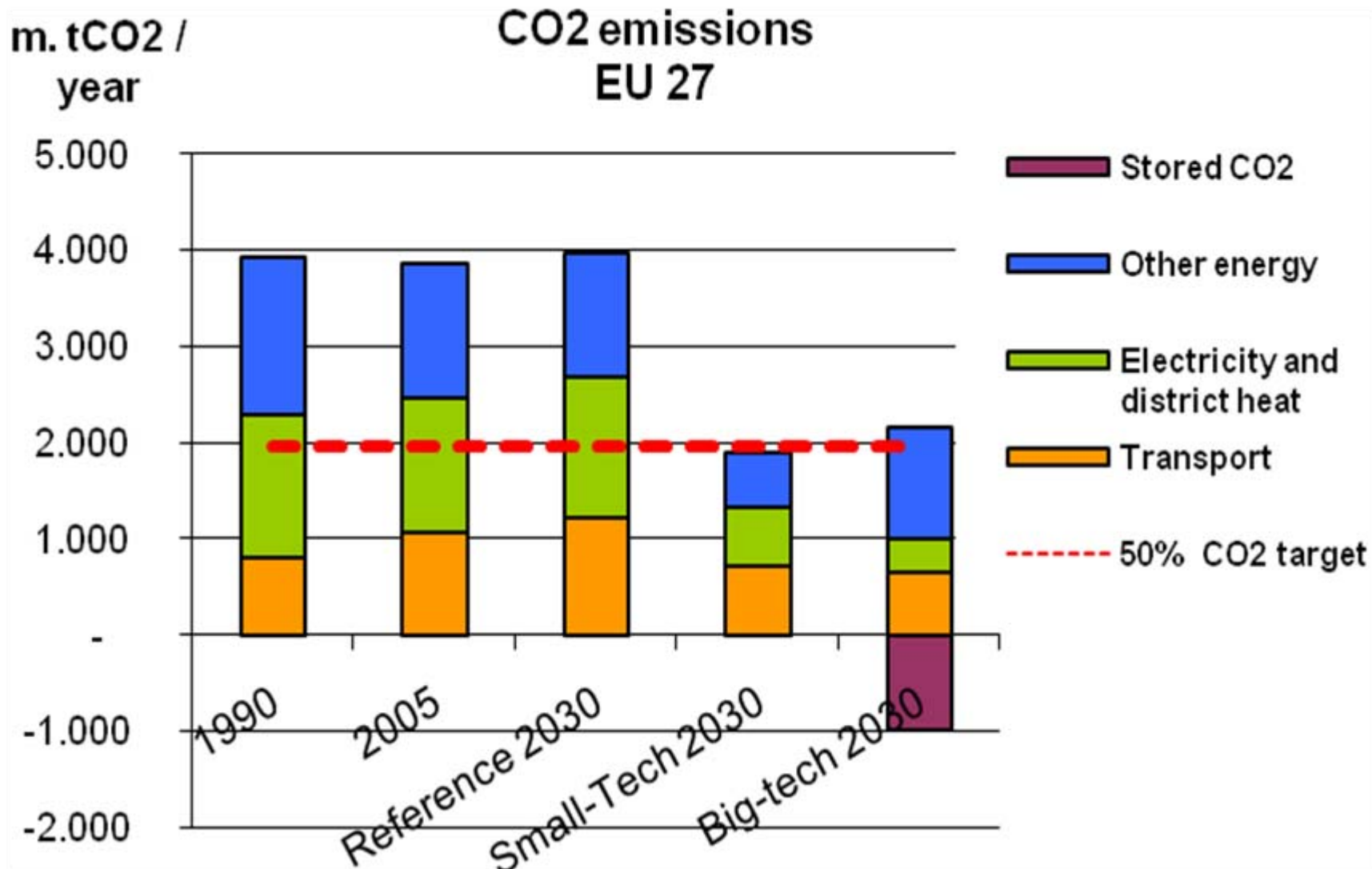
- Forsyningssikkerhed
- Energipriser
- Klima
- Nordsøresurser
  
- Mål
  - EU
  - DK – fossilfrit på lang sigt

# Teknologirådet

- Det fremtidige danske energisystem - 2004-2007
- Fremtidspanel - folketingspolitikere
- Styre- og arbejdsgruppe - aktører
- Offentlige høringer, workshops og afsluttende seminar
- Rapport om scenarier + nyhedsbreve fra Rådet til Tinget
- Modelværktøj og data

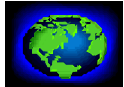


# Scenarier til EU-parlamentet



Kilde: STOA energiscenarier, udarbejdet af Ea Energianalyse, RISØ og Teknologirådet til Europaparlamentet.





Municipalities/  
cities

Goals

EU's quota system

To utilise practical experience

Planning – Infrastructure for electricity, natural gas and district heating

Taxes and incentives

Local  
Commitment

Research, Development and Education

City planning and  
transport policies

Existing  
buildings

Transnational planning of  
offshore windmills

CO2 Neutral  
Houses

Green  
Campaigns

Urban districts

Demonstration of flexible energy system  
Consumers - Producers

To develop  
energy efficient  
vehicles

Hydro      Wind      District Heating

Electric/plug-in  
hybrid cars/buses

Energy labelling and  
dynamic norms

Public Purchase Policy

Intelligent Energy System

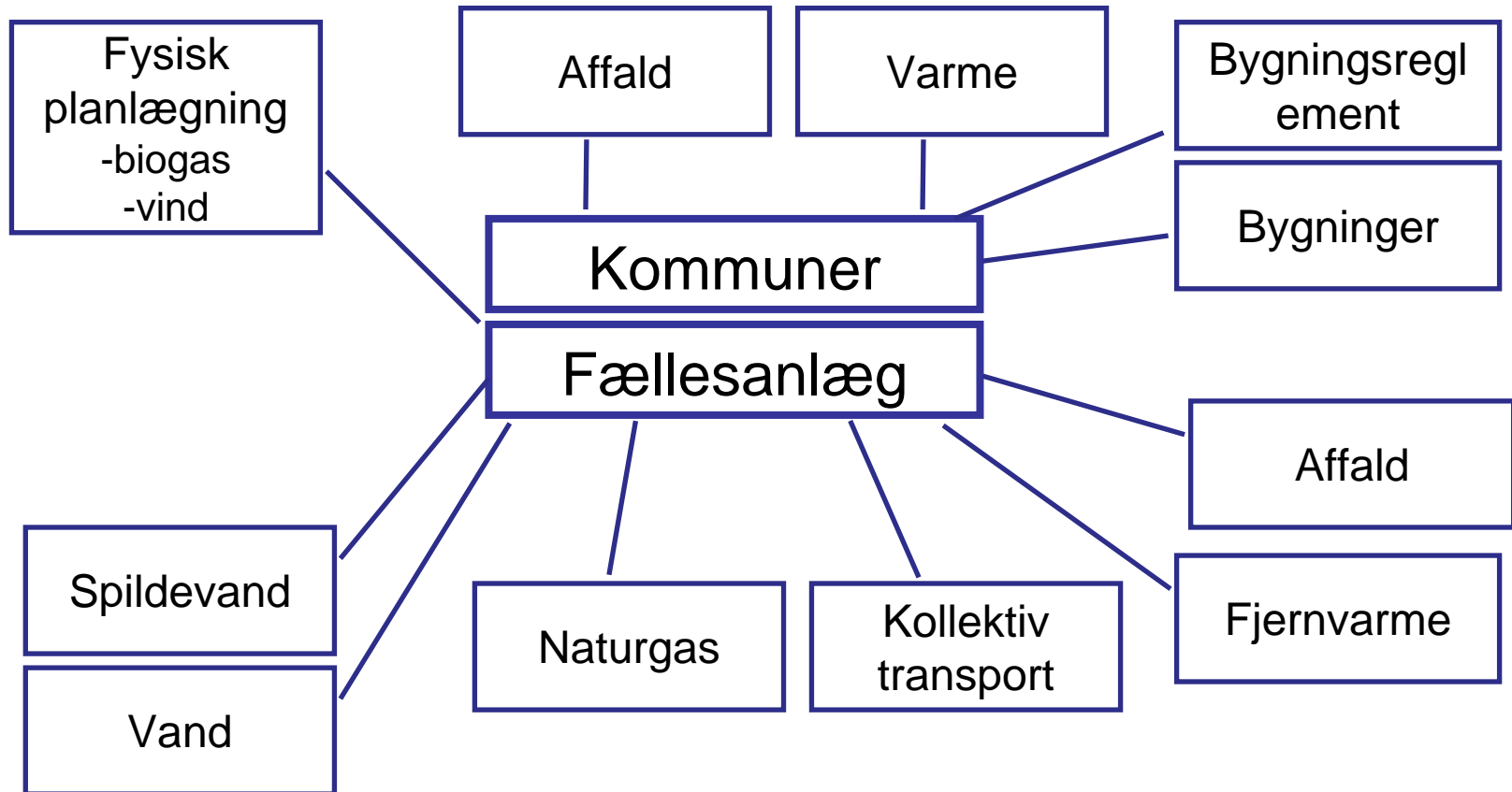
Global

EU

Member states

Local

# Kommunernes rolle



# DK/EU mål – koordinerede handlinger

