

Baltic Sea Parliamentary Conference Working Group on Energy and Climate Change

Tallinn, 22 May 2008

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www.eaea.dk

Baltic 21-Energy

Sustainable energy development in the Baltic Sea Region



Baltic 21 Series No. 3/98

Energy Scenarios for the EU parl.

- Resources
- Technologies
- Energy efficiency
- Renewables
- R&D&D
- Infrastructure
- Market
- Intelligent energy
- Coordination

Future Energy Scenarios for EU27 in 2030



Towards
50% oil reduction
50% CO2 emissions reduction
Security of supply

Prepared by
The Danish Board of Technology
RISØ DTU
Ea Energy Analyses
Strasbourg, 23 April 2008

For more information:

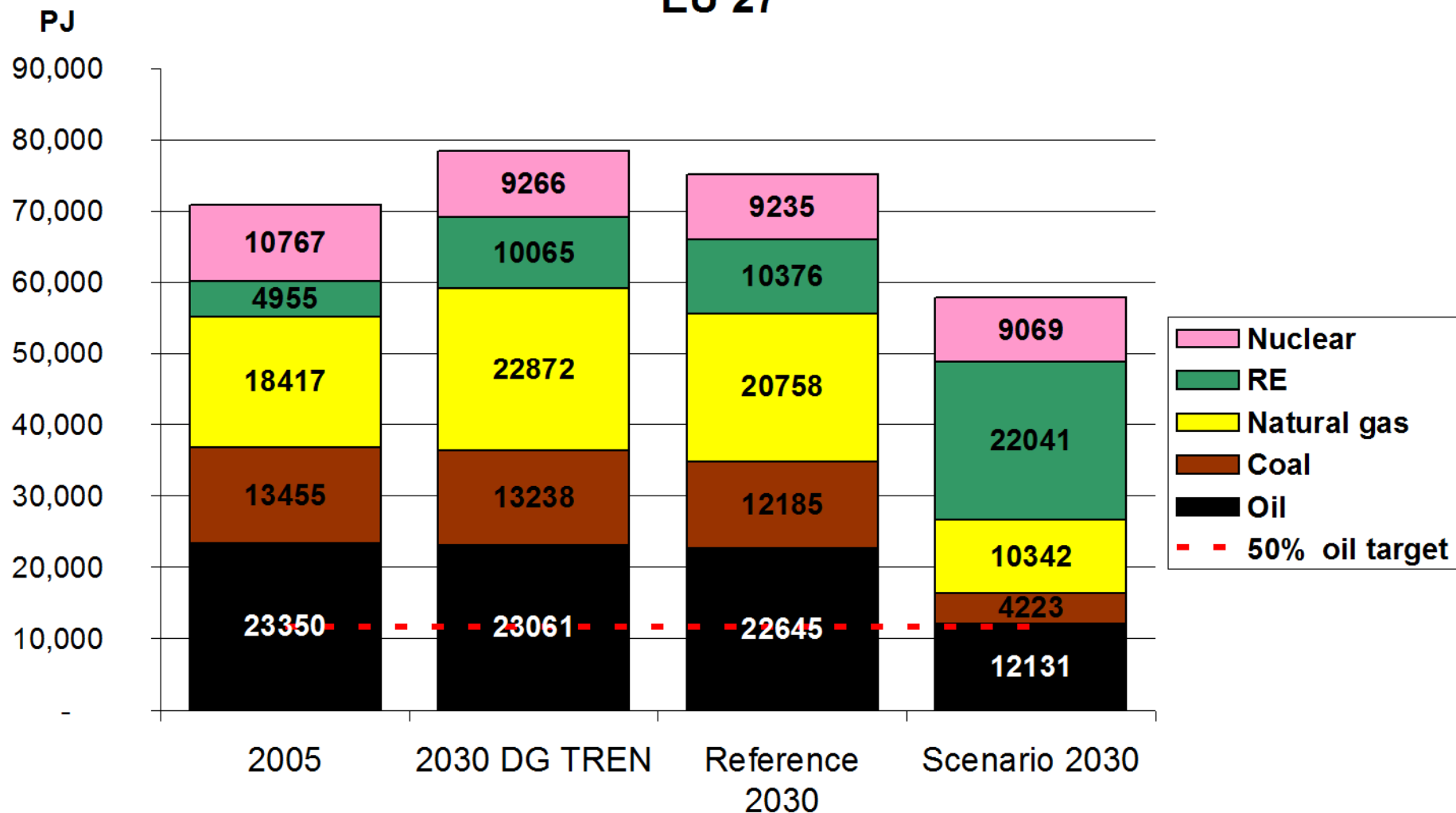
http://www.europarl.europa.eu/stoa/default_en.htm

Process of dialogue



Preliminary results

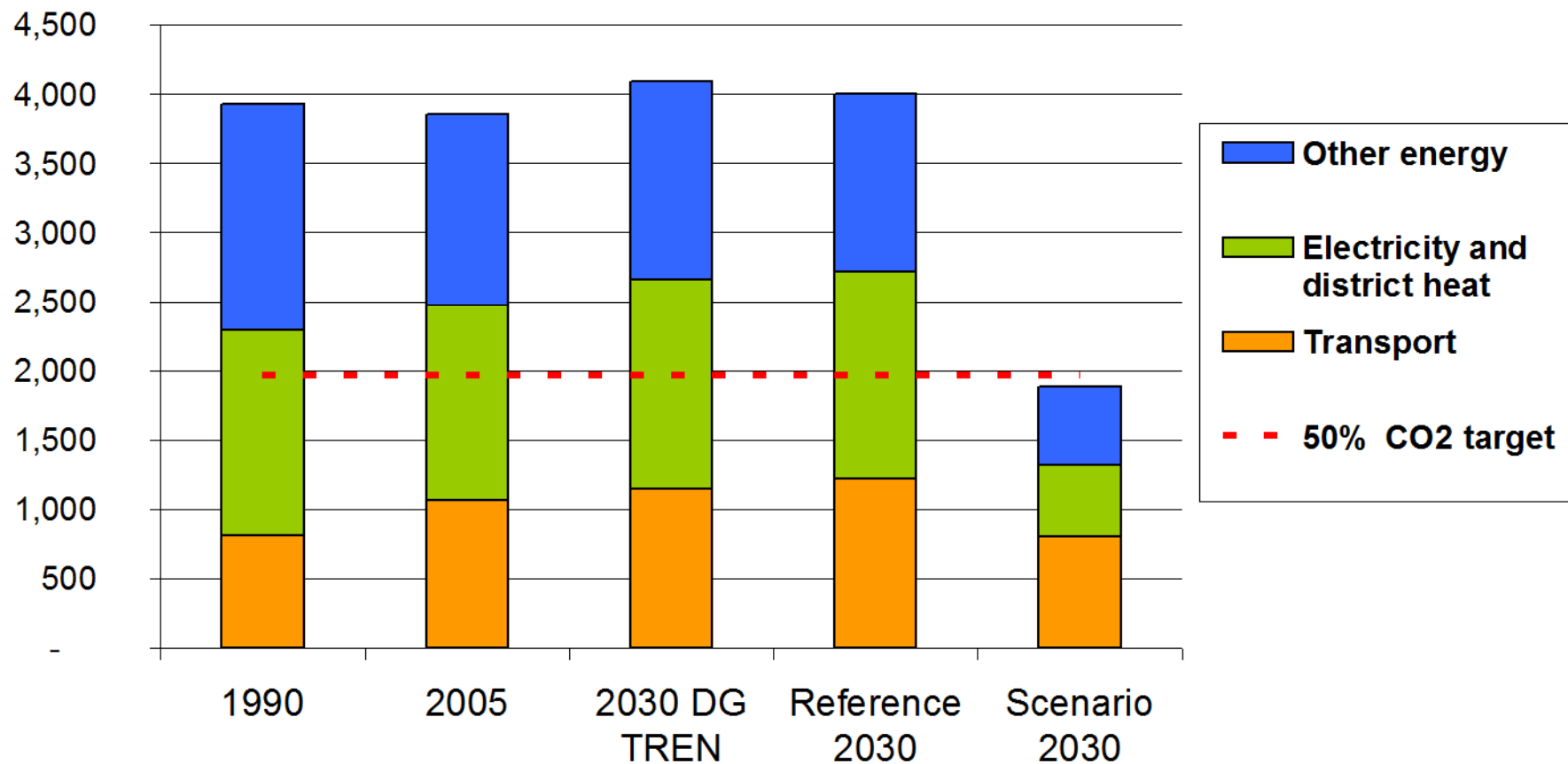
Gross energy consumption EU 27

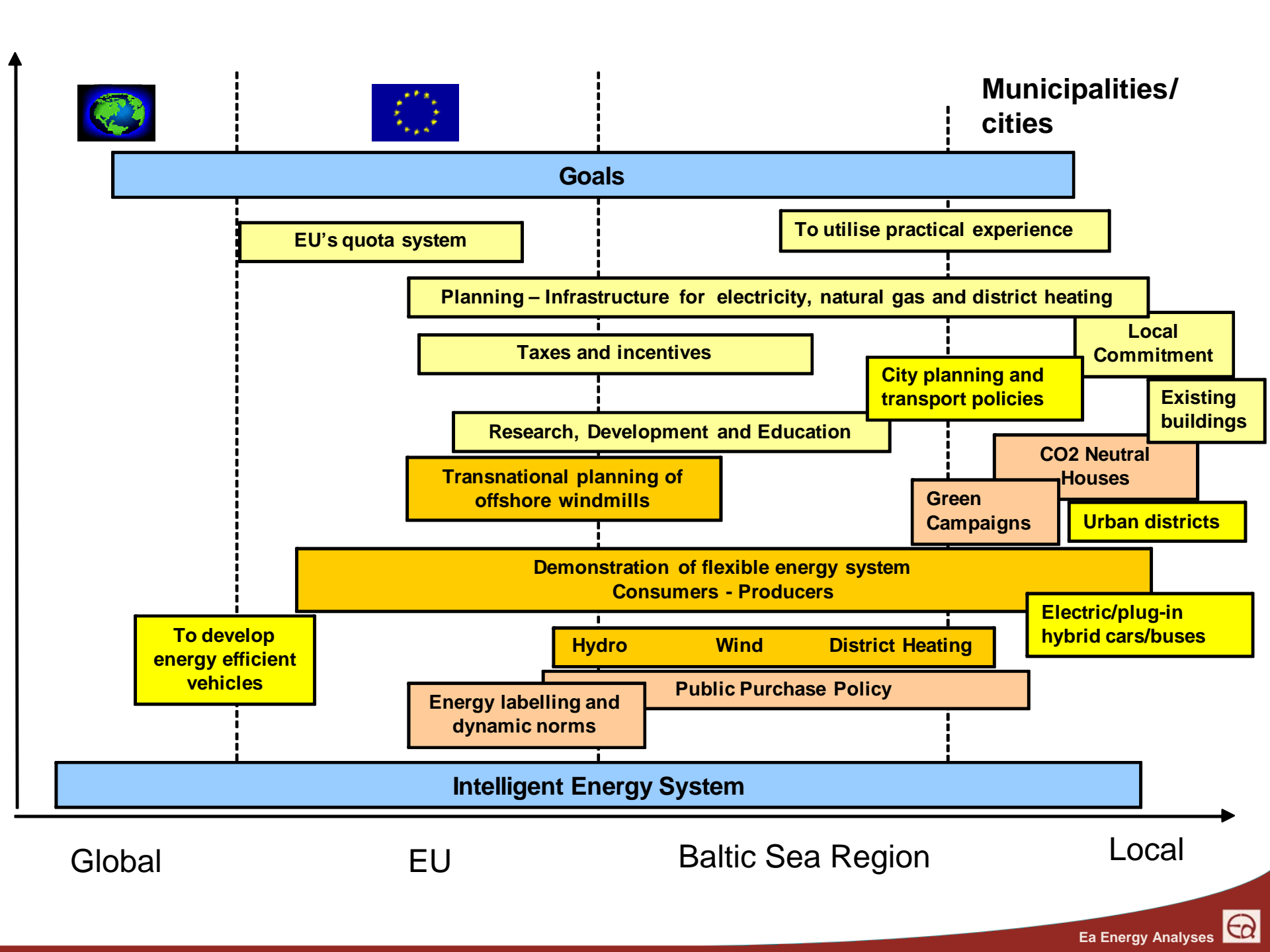


Preliminary results

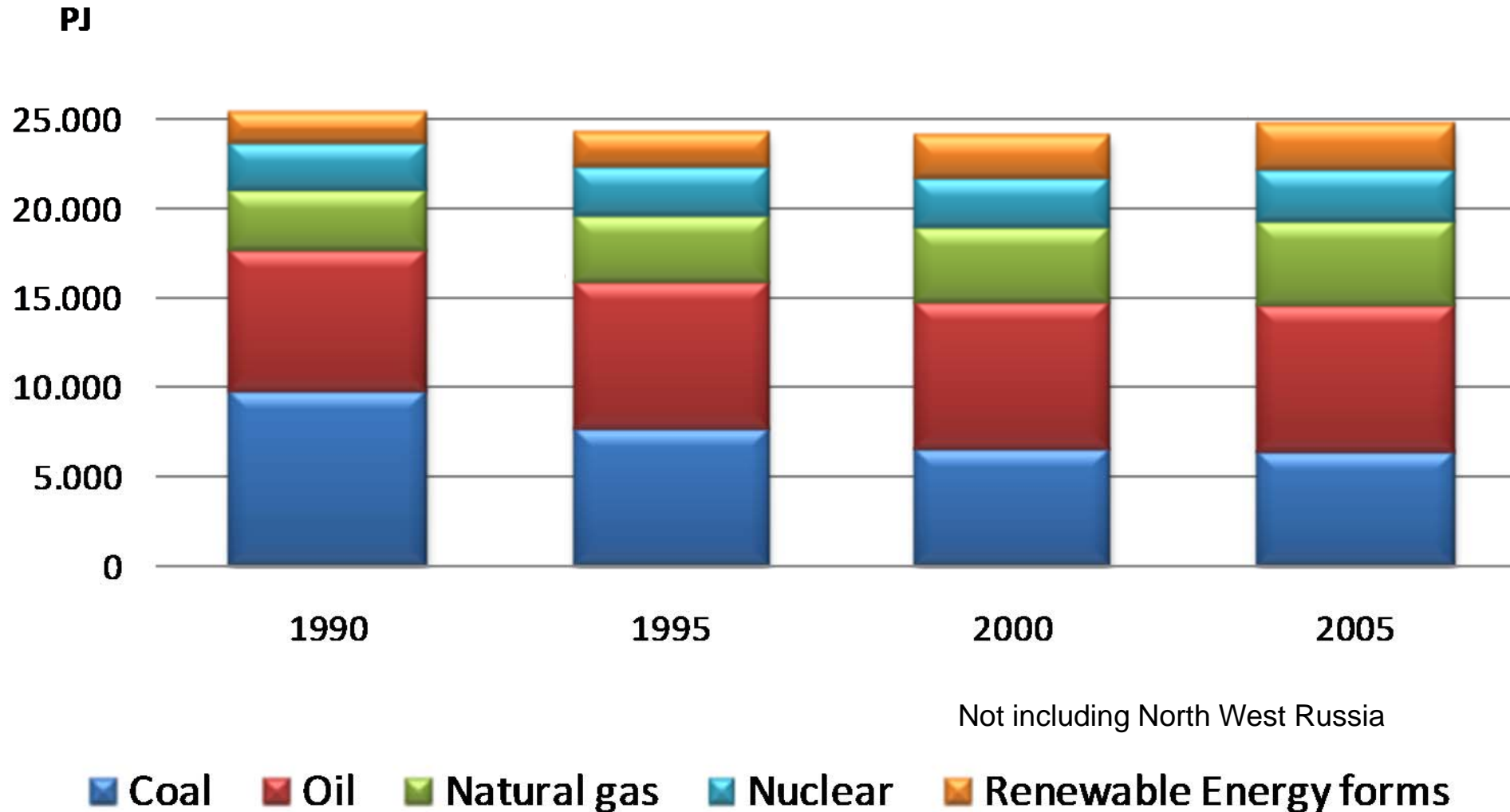
CO₂-emissions - EU 27

m. tCO₂ / year



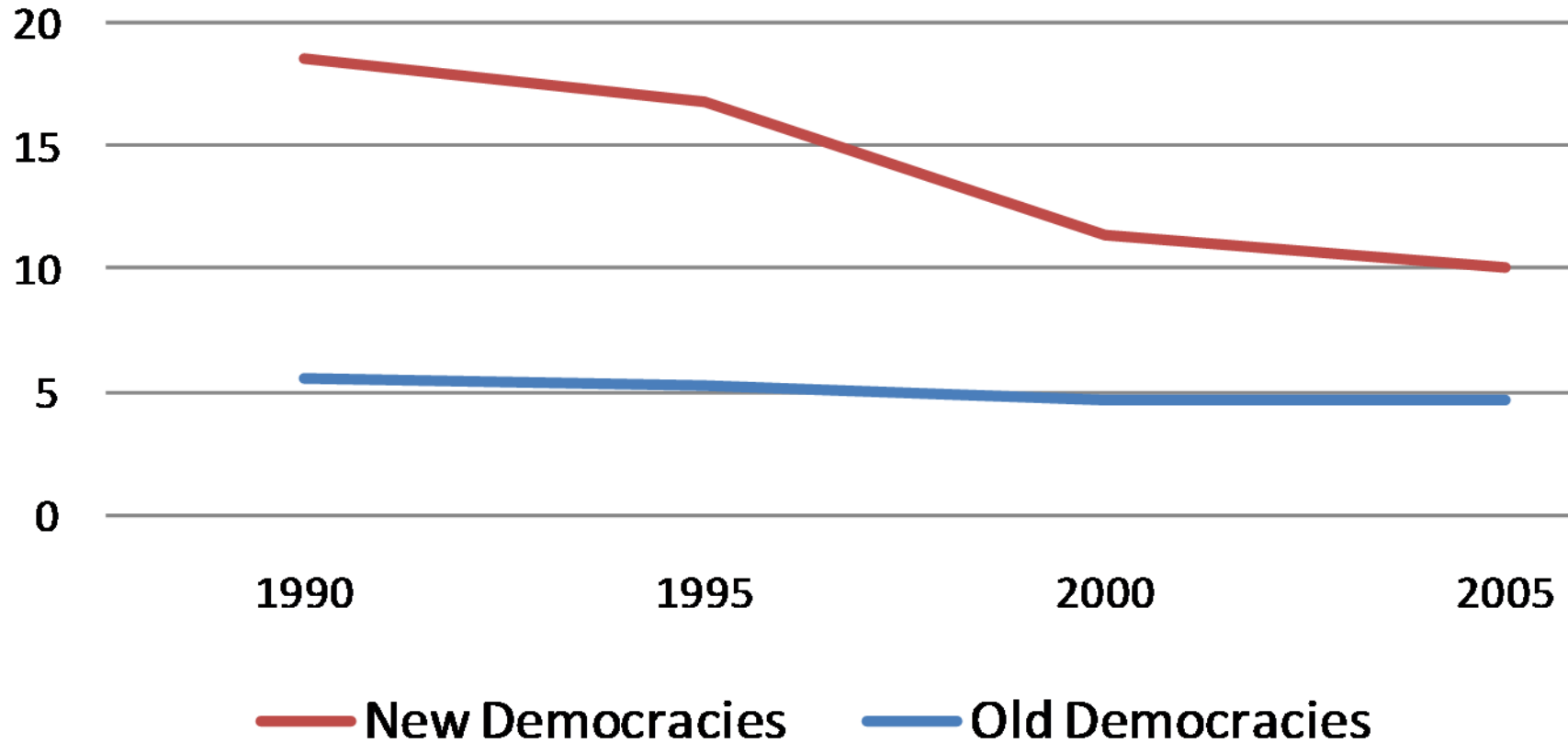


Gross Energy Consumption



Final Energy Demand Per GDP

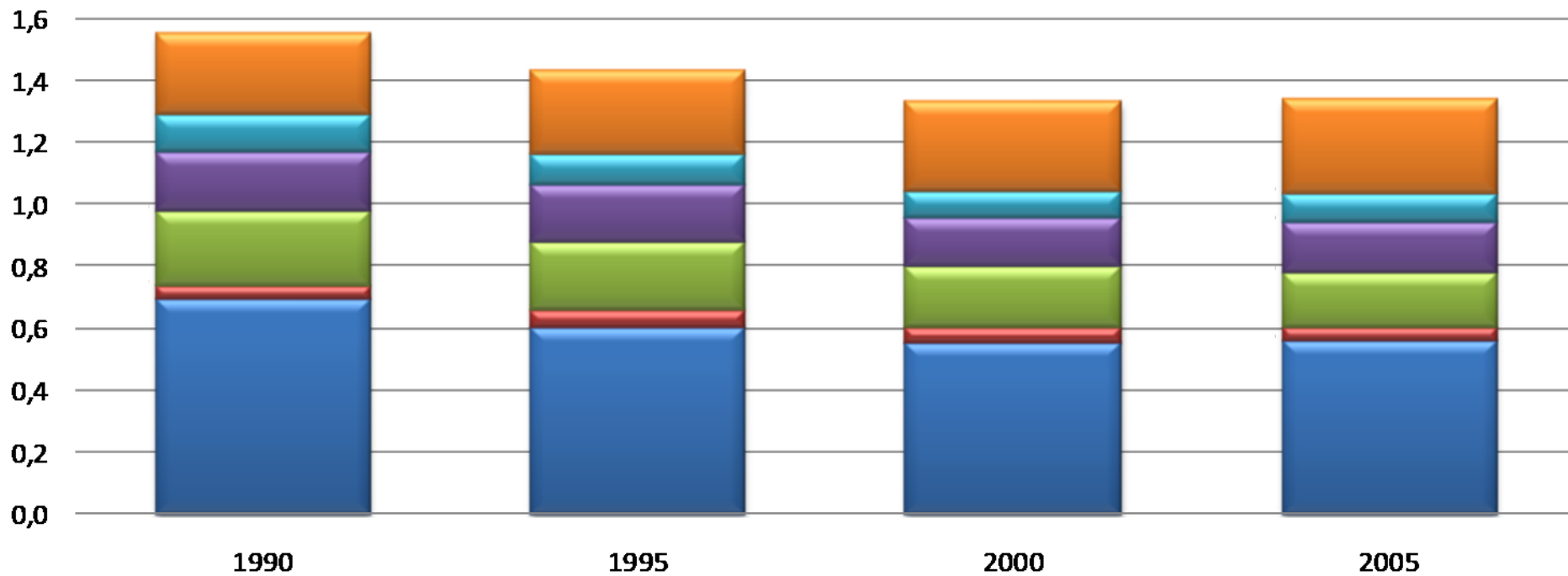
TJ/M€('00)



Not including North West Russia

CO₂-emissions by sector

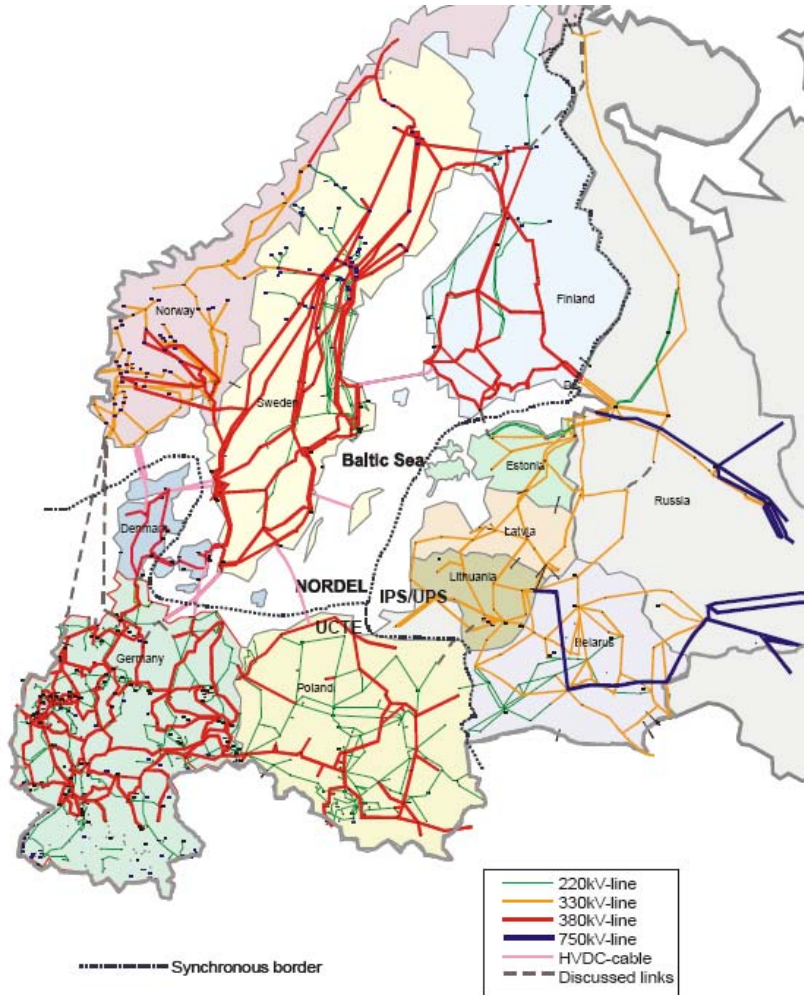
Gt of CO₂



Not including North West Russia

■ Power generation/District heating ■ Energy Branch ■ Industry ■ Residential ■ Tertiary ■ Transport

Infrastructure



Baltic Sea Region

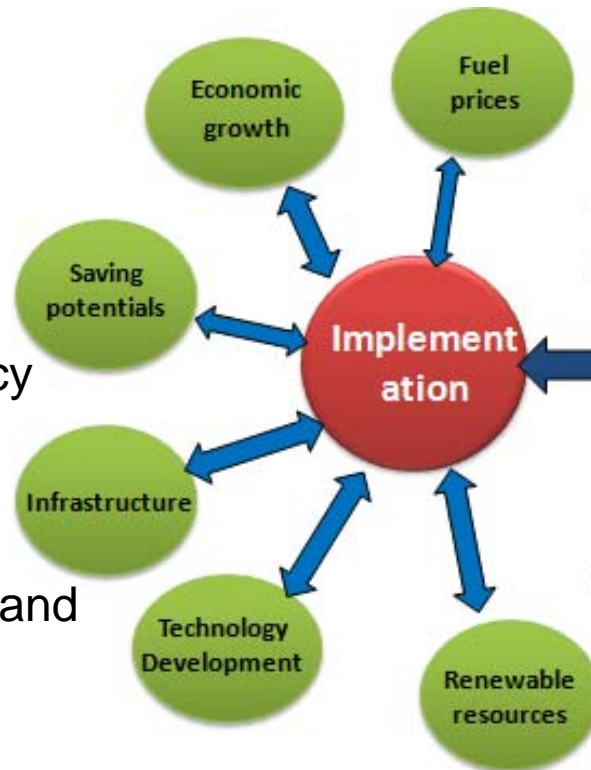
- Energy resources
- Infrastructure
- Technologies
- Industries
- R&D&D – universities
- Energy companies
- Cooperation
 - Baltic Sea Council
 - Baltic Sea Parliament
 - Union of the Baltic Cities
 - Baltrel



Scenarios – proceses of dialogue



Scenarios



- Targets: CO2 and security of supply
- Requires
 - Efficiency improvements incl. transport sector
 - Utilization of available RE resources
 - Infrastructure (electricity, district heating)
 - Intelligent energy system
 - Research, development and demonstration
- Economy
 - Sensitive to fuel and CO2-prices

- Road-map
- R&D&D
- Prioritised project
 - Energy efficiency
 - CCS
 - Off-shore wind
 - Bioenergy
 - District heating and CHP
 - ...