



# Welcome to the ETSAP meeting 2014 in Copenhagen

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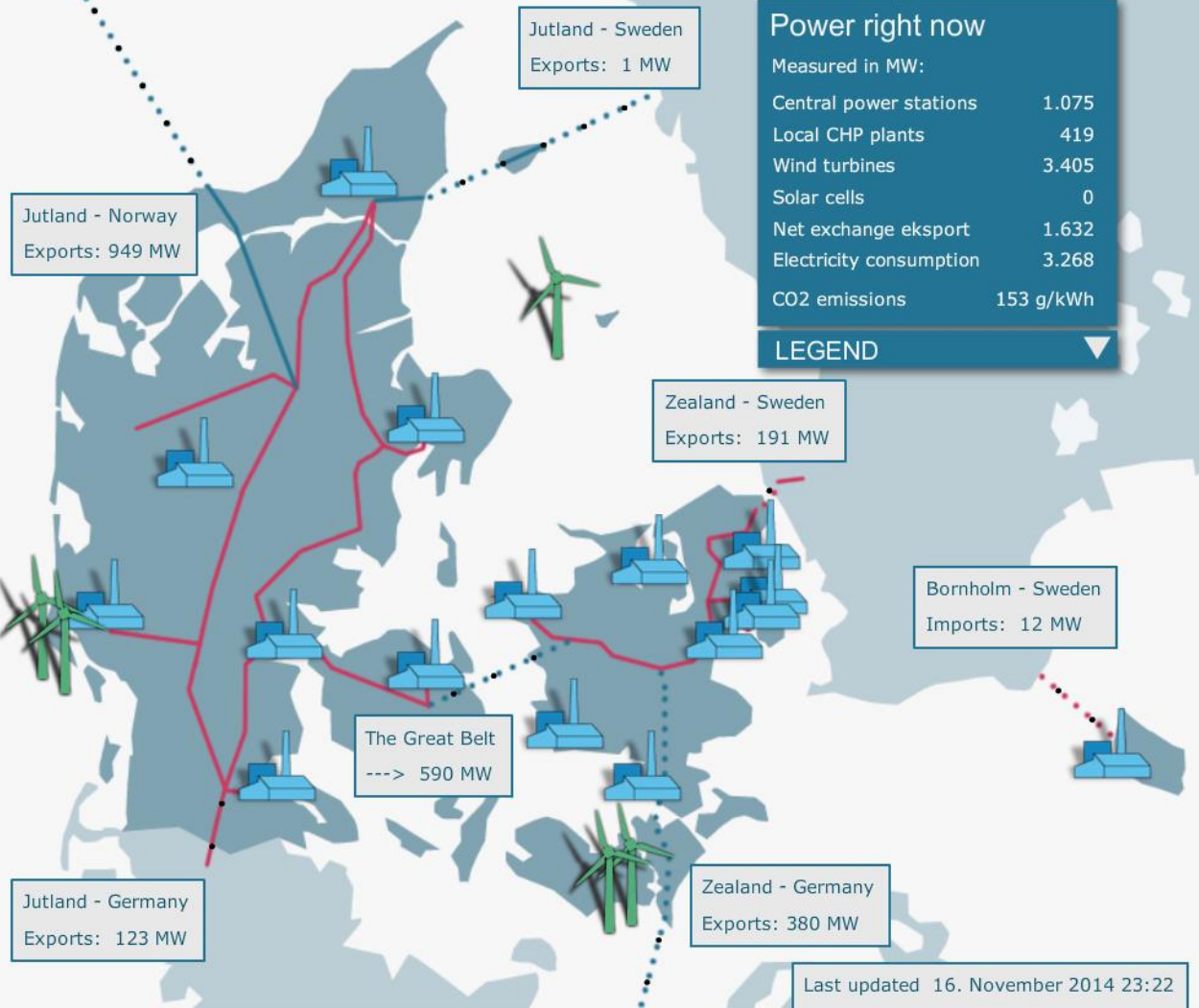


# Overview of forecasting tools used for planning by DEA

**ETSAP meeting**

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<http://www.energinet.dk/Flash/Forside/UK/index.html>



### Power right now

Measured in MW:

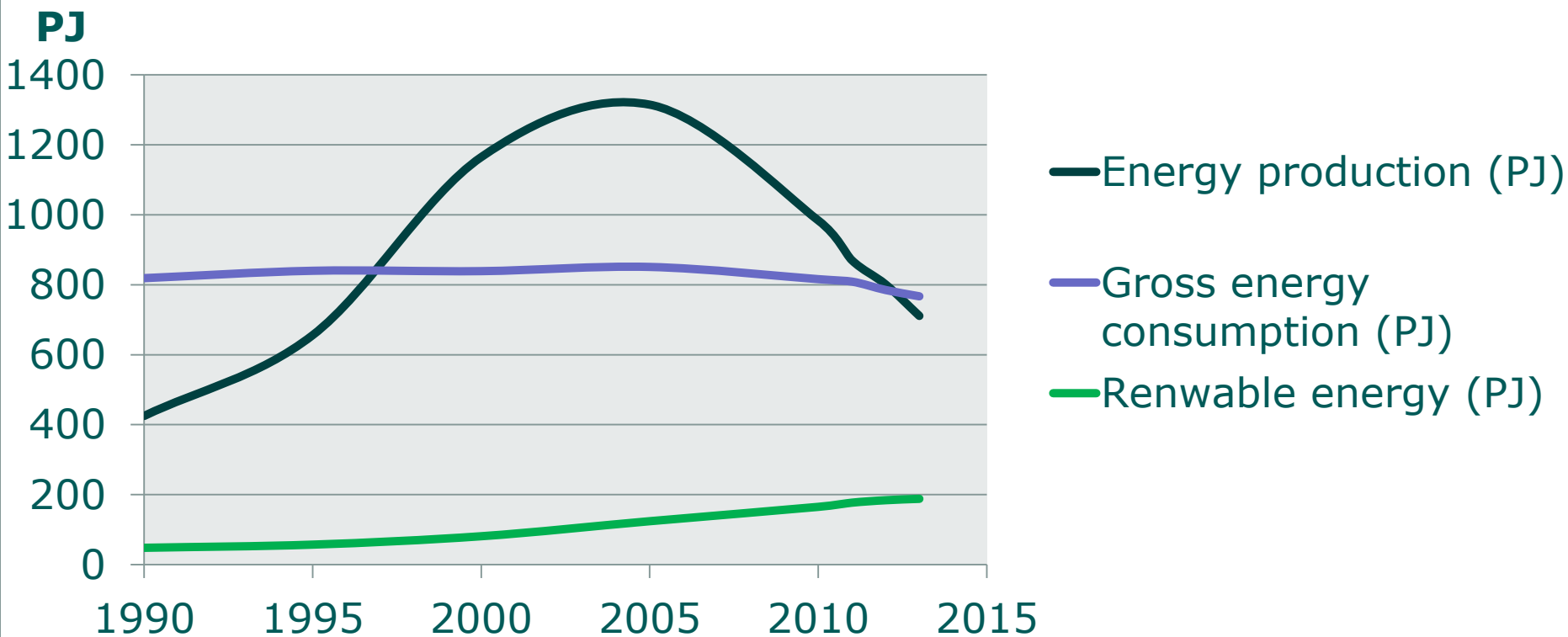
Central power stations	1.075
Local CHP plants	419
Wind turbines	3.405
Solar cells	0
Net exchange eksport	1.632
Electricity consumption	3.268
CO2 emissions	153 g/kWh

LEGEND ▾

- Power right now
- Power grid
- New power facilities
- Natural gas right now
- Gas system
- New gas infrastructure
- Locations

Last updated 16. November 2014 23:22

# Summary energy statistics



\*Note that data for 2013 reflects preliminary energy statistics

# Plan of talk

- Danish Energy Policy
- Short and medium term forecasts
  - ➔ Danish Energy Outlook
- Long term planning tools
  - ➔ Energy System Scenarios
  - ➔ IntERACT: Economy Wide Impact Assessments

# Danish energy policy

- Agreement on energy policy from 2012 – 2020
- Principle policy goals
  - i. 12 % reduction in gross energy consumption in 2020 compared to 2006
  - ii. 50 % of electricity consumption supplied by wind power in 2020
  - iii. more than 35% of final energy consumption supplied from renewable energy sources in 2020.
  - iv. Heat & power supply entirely from renewable resources in 2035 (no coal from 2030)
- Long term goal – Denmark fossil fuel free in 2050

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# Danish Energy Outlook

- 10-15 year **frozen-policy** forecast on
  - energy use, power production and **GHG** emissions
- Dedicated modelling setup
- Used for short and medium term forecast
- Policy 'monitoring' and planning
- **Basis for** impact assessments of **new policy**:
  - Government revenue
  - Potential growth effects



# Plan of talk

- Danish Energy Policy

- Short and medium term forecasts

 Danish Energy Outlook

- Long term planning tools

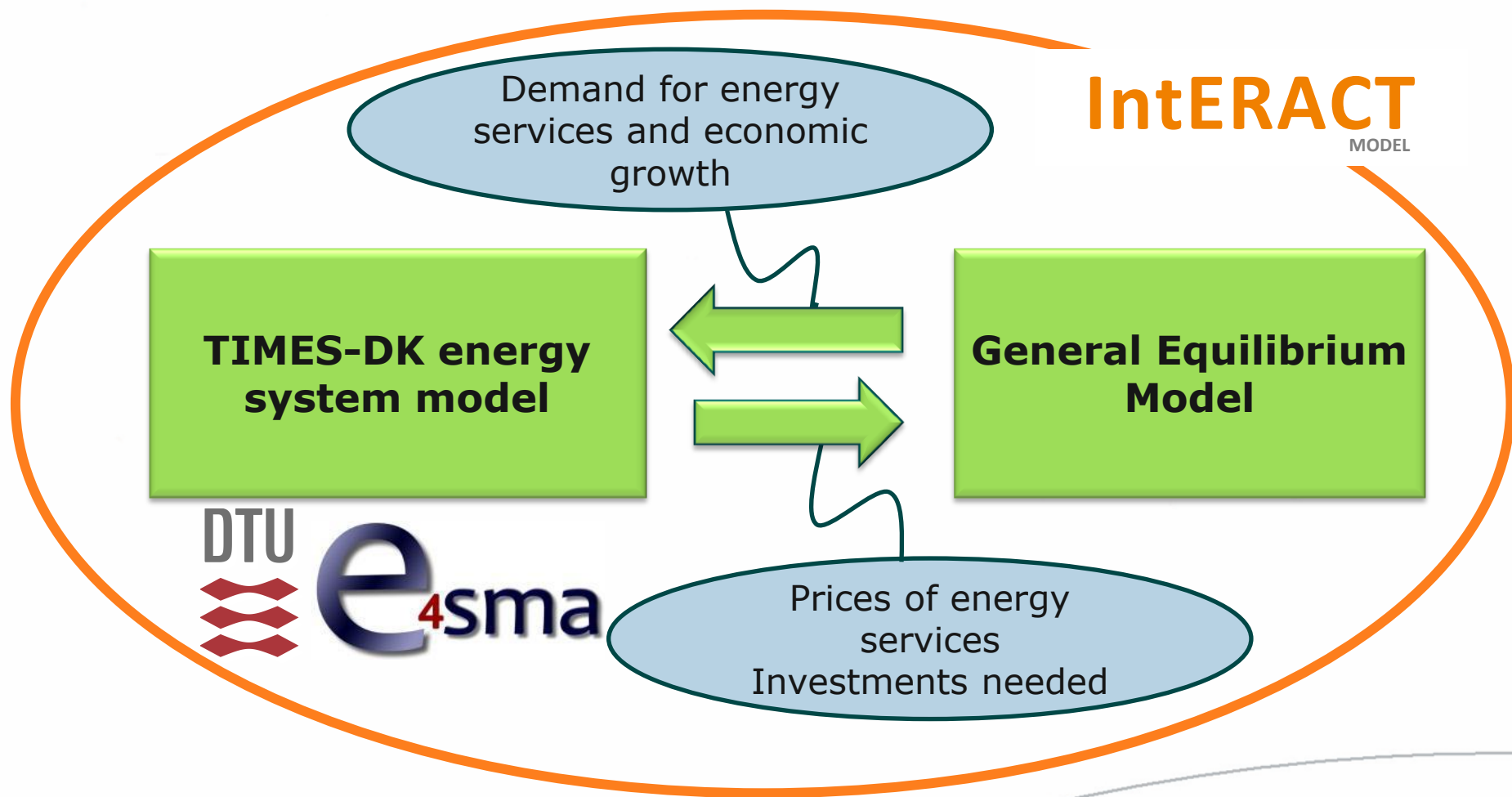
 Energy System Scenarios

 IntERACT: Economy Wide Impact Assessments

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# IntERACT



# Long term policy planning in DEA

<b>Modelling setup</b>	<b>Is the system technical possible?</b>	<b>What does the system cost?</b>	<b>Policies required to achieve the system?</b>	<b>Economy wide impacts</b>
Energy Outlook	Yes	No	No	No
Energy Systems Scenarios	Yes	Yes	No	No
IntERACT (TIMES-DK+CGE)	Yes	Yes	Yes	Yes



**Thank you for your attention**

**- wish you a pleasant stay in  
Copenhagen...**