



# COGEN

europa

changing the way  
europa provides heat and electricity  
for a sustainable future

# The current situation of CHP in Europe and the role of the CODE Program

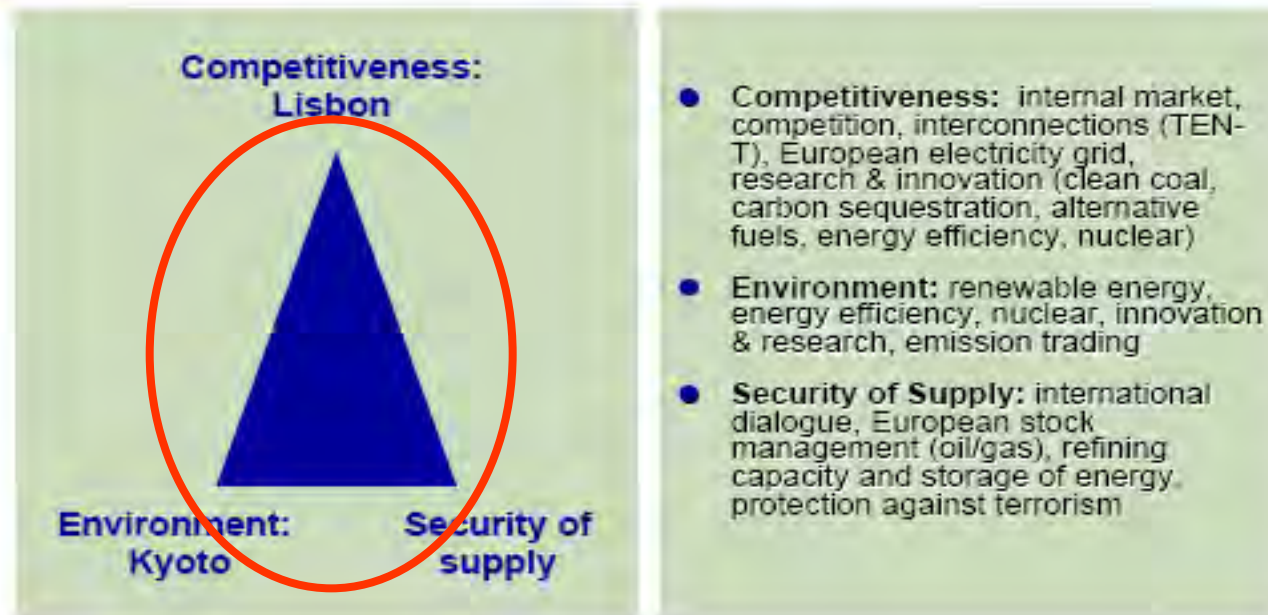
Threats and Opportunities in the Energy Markets in the Current  
Economic Crisis : Thessaloniki 18/19 June 2009

# EU Energy Policy



## COMMON ENERGY POLICY GOALS

Current position

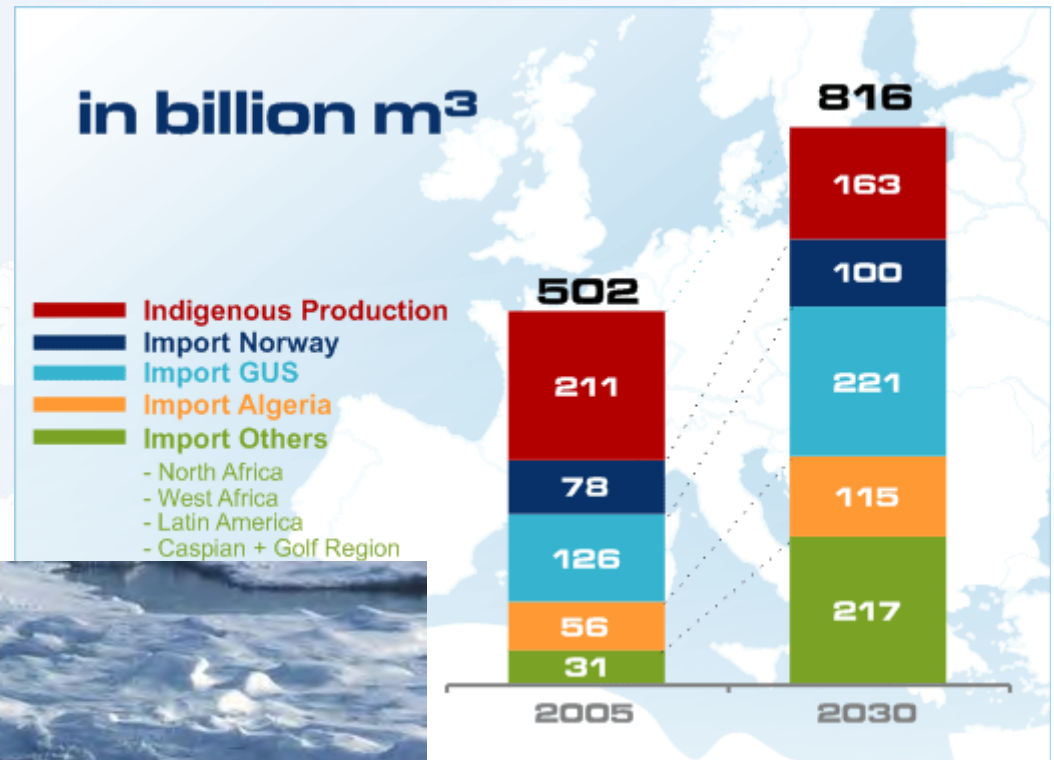
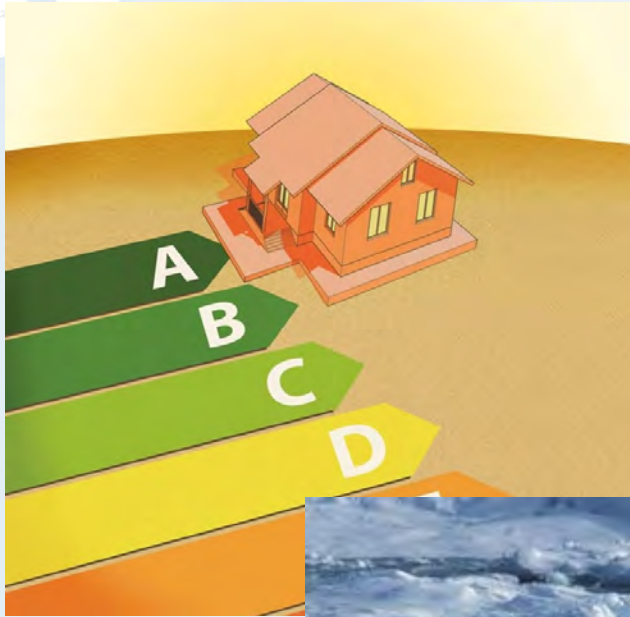


Directorate-General for Energy and Transport

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European Unions common energy policy priorities: reduce primary energy imports, increase security of supply, limit climate change.



# What the industry can do to help Europe

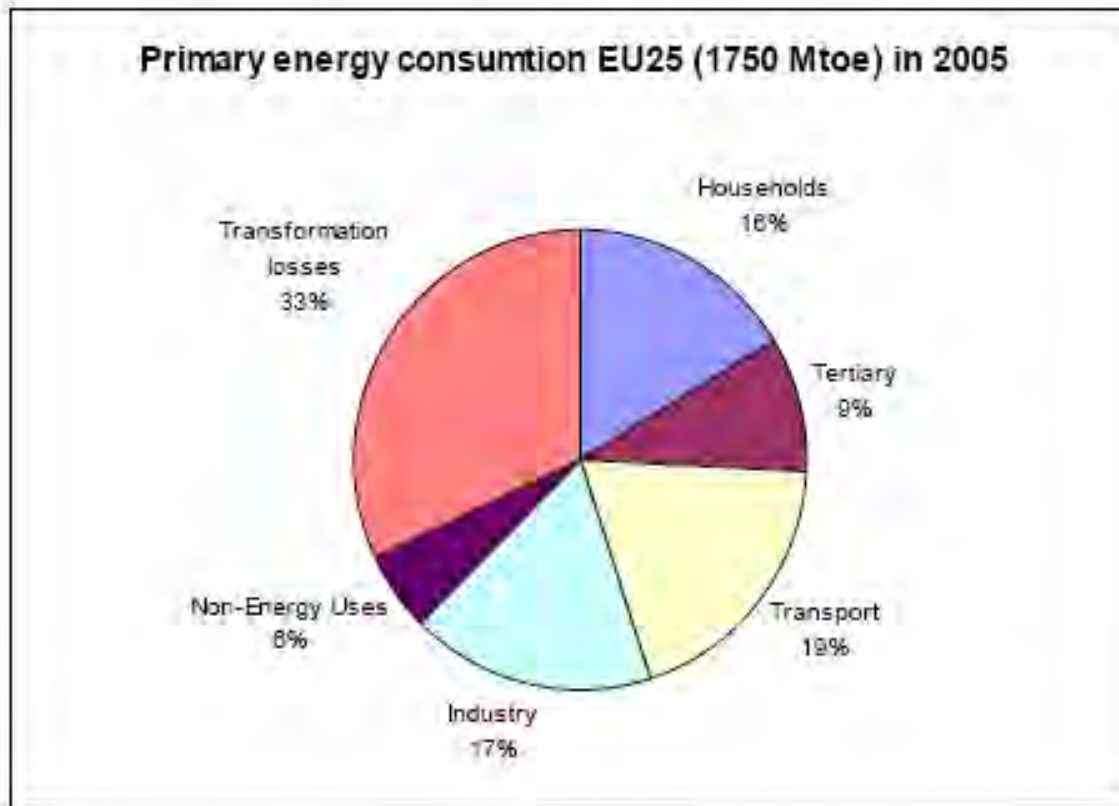
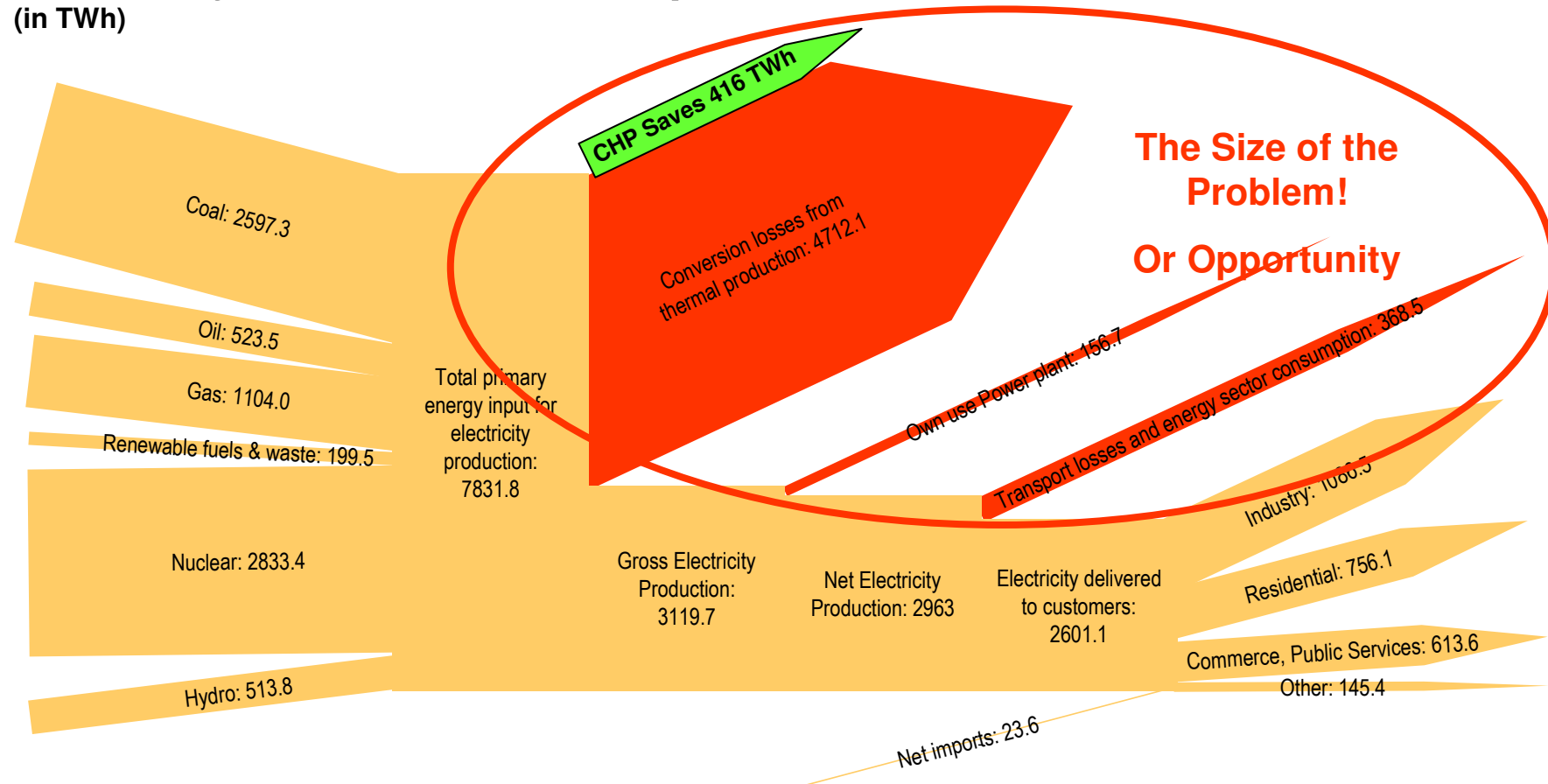


Figure 4

# Electricity Supply in Europe: Is this sustainable?

## Electricity Generation in European OECD countries (in TWh)



**33% total efficiency of the electricity supply system**

Source: OECD 1999

COGEN Europe

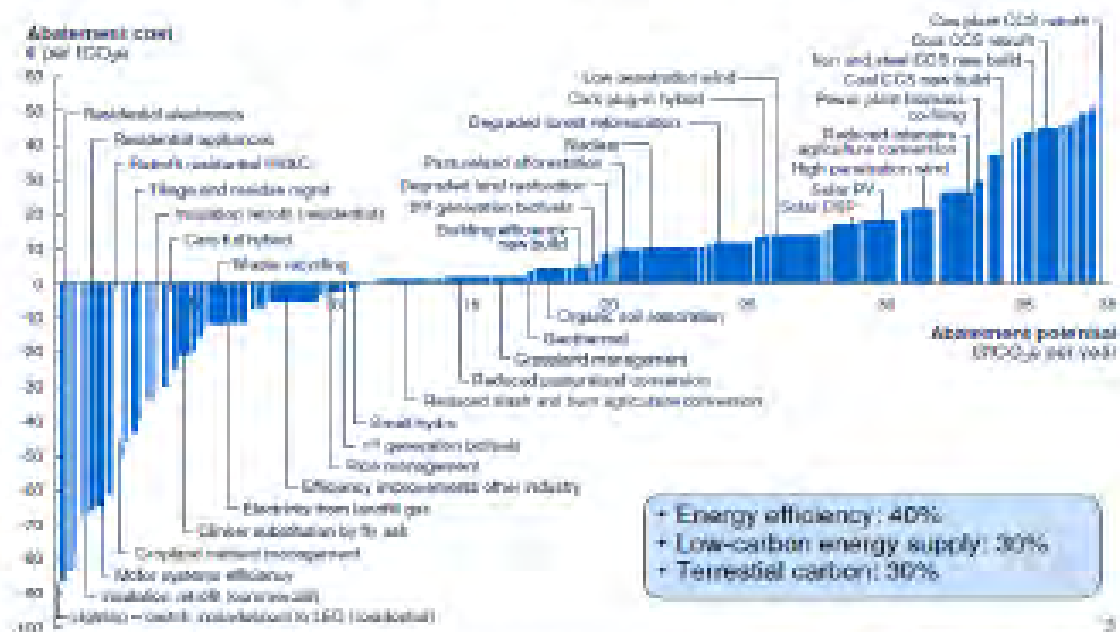
Date: 7/11/2006

Event: COGEN Portugal, Lisbon

Page: 6

# Energy Efficiency is cost effective

## Investments in energy efficiency pay off 2030 - Global GHG abatement cost curve beyond business-as-usual



Notes: The chart presents an estimate of the maximum potential of technical GHG abatement measures from 2040 (by 2030) and does not represent a forecast. It is not a forecast of what will actually be done. Measures and technologies will differ.

McKinsey & Company

# Cogeneration and EU energy policy

- 2004 the CHP Directive was adopted by the European Parliament to improve energy efficiency and security of supply.
  - 2004 Estimates based on modelling, identified an additional 150 GWe potential for cogeneration in Europe ie a doubling of installed capacity.
  - 2008 Estimates by member states themselves are showing an economic potential of an additional 50%-100%
- 11% of the EU's electricity is currently supplied through cogeneration.



# The Global Perspective

- IEA Collaborative and what happens in the G8+5  
G8 Gleneagles agenda  
IEA collaborative ( industry heavy involvement)  
Copenhagen meeting ( agenda)  
International Partnership for Energy Efficiency and co-operation.
- The participation of the IEA in identifying the potential for cogeneration globally has added weight to Europe's position in promoting CHP.
- There is growing global recognition of the potential for CHP in securing real primary energy savings.

# COGEN Europe CODE program

Jointly funded by COGEN Europe members and the European Commission to accelerate the implementation of the CHP Directive.

Regionally structure independent assessment of the success of the implementation of the CHP Directive.

Report on results of National potentials studies October 2009.

Report on barriers and support mechanisms June 2010

- Central source of information on cogeneration policy in member states
- Exchange of information between policy makers in member states
- Pressure on the Brussels system to keep active on the Directive.

# Policy Outreach :Cogeneration Observatory: CODE

- 30 month program supported by European Commission IEE 2009-2011
- Objectives
  - Monitor the progress of the CHP Directive
  - Identify and exchange best practise (IEA)
  - Highlight opportunities to improve implementation (IEA)
  - Build 4 regional specialist groups (IEA)
  - Propose a CHP roadmap for Europe
- Operation:
  - Regional structure with phased workshops focusing on different aspects of Directive implementation

# Policy Outreach :Cogeneration Observatory: CODE

## Four Regional Groupings :

HACHP: Greece, Cyprus, Bulgaria, Romania

UK CHPA: United Kingdom, Ireland, Netherlands, Belgium, Germany, Austria, Denmark, Sweden, Finland

COGEN Slovenia: Slovenia, Hungary, Poland, Czech Republic, Slovakia, Estonia, Latvia, Lithuania

## HACHP:

COGEN ITALY: Italy, Spain, Portugal, Malta, France, Luxembourg

## •Workshops 2009 :

- 4 Regional workshops May/June 2009
- Brussels policy workshop October 2009

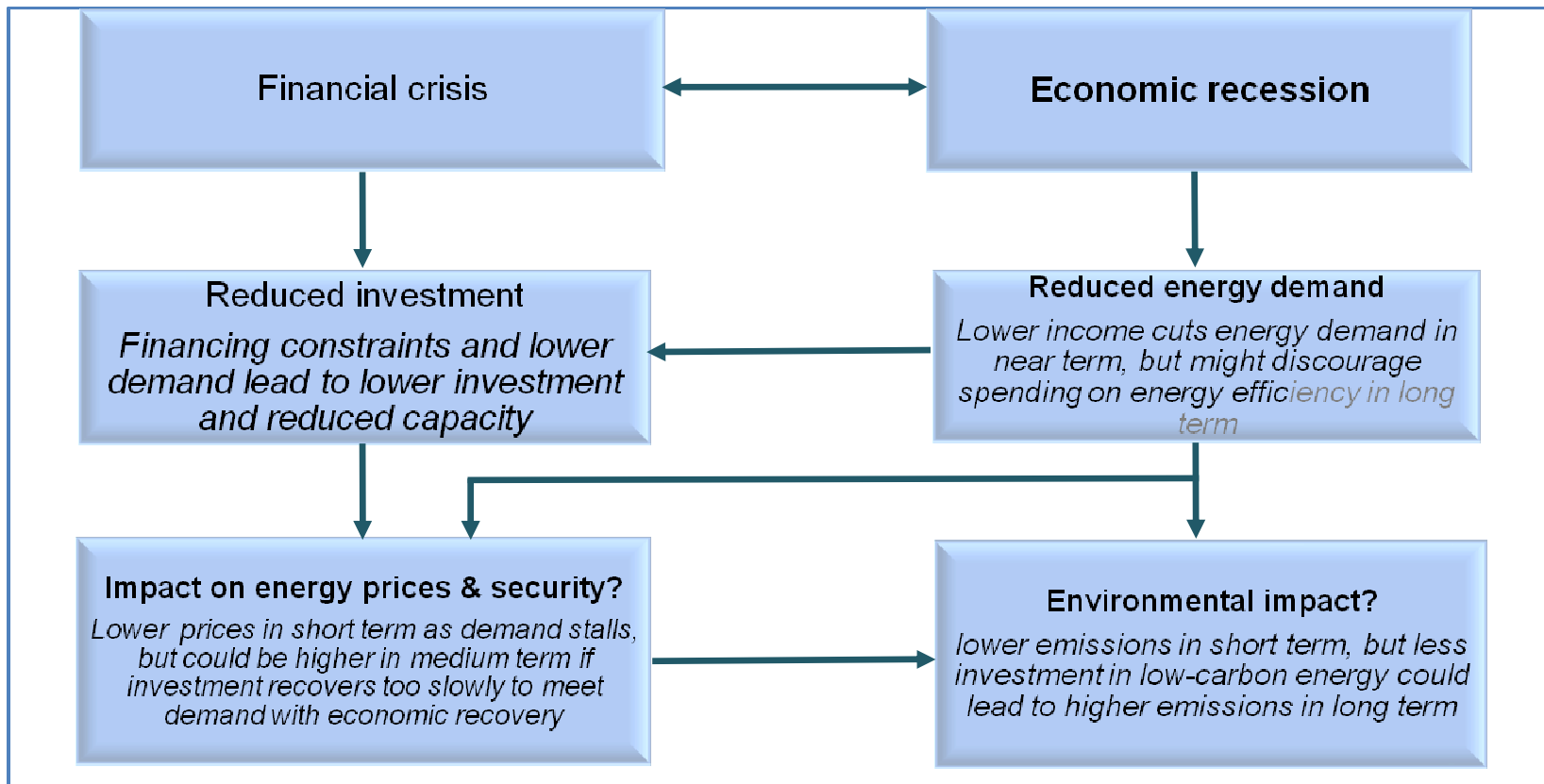
## •Website and database in construction

# Conclusions

- Energy efficiency is fundamental to all sustainable energy policy
- Energy Efficiency is cost effective
- Cogeneration is a key tool in energy efficiency



# How is the financial & economic crisis affecting the energy outlook?



( Nabuo Tanaka IEA Copenhagen Ministerial Conference: Feb 2009)