

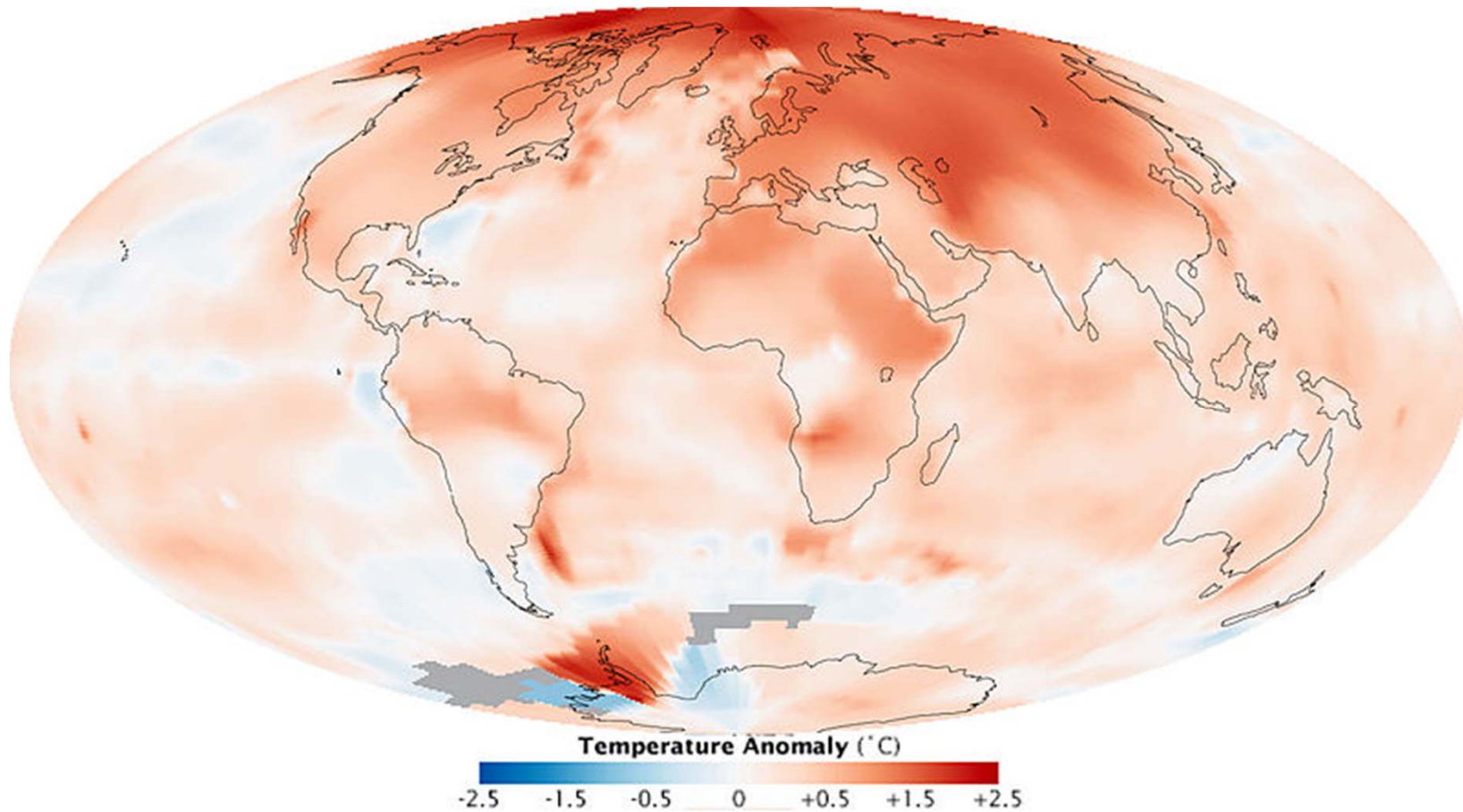


Lena Ek
Member of the European Parliament



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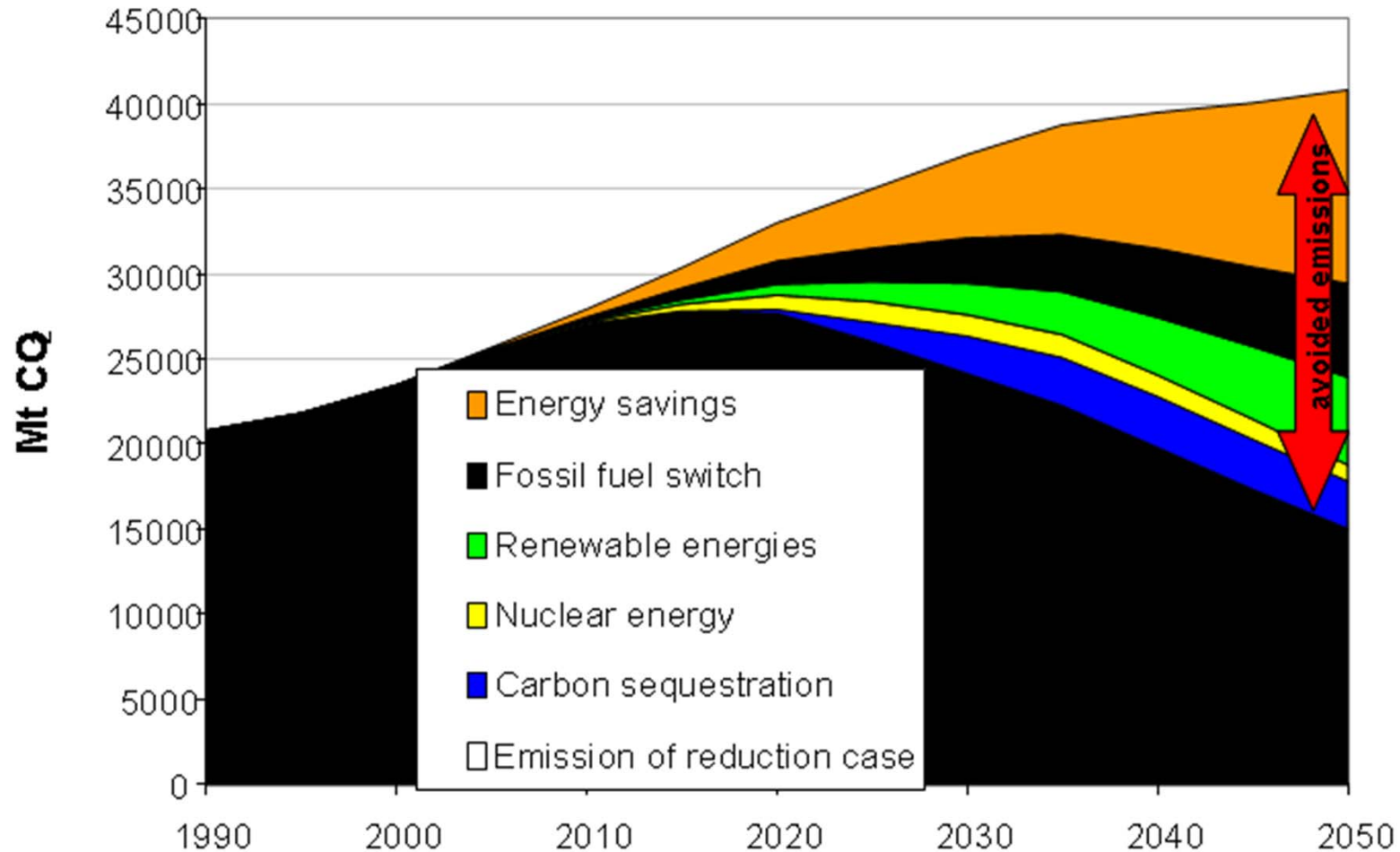
Europe's Challenges: Climate Change



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Europe's Challenges: Reducing Greenhouse Gases

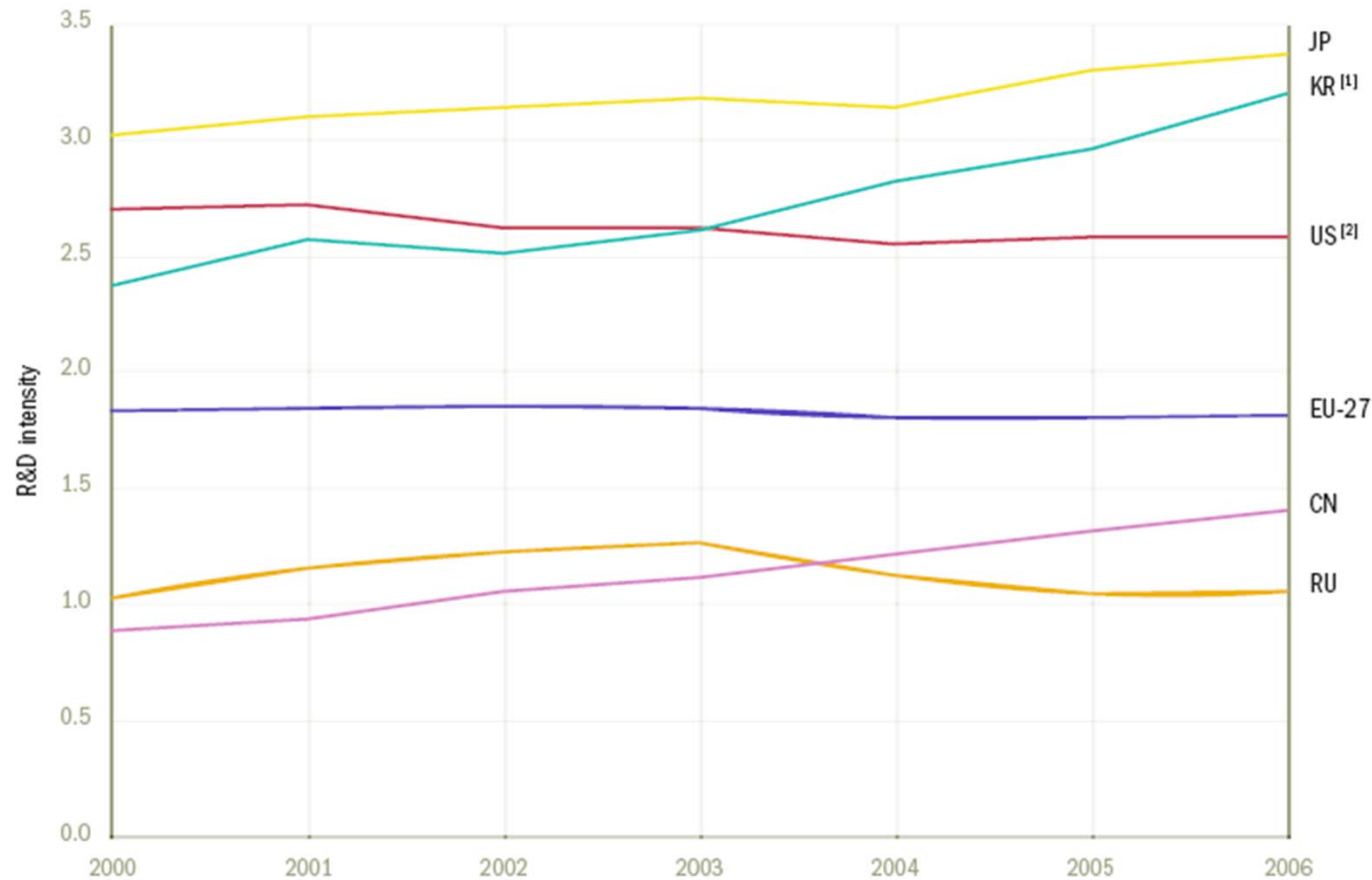


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Europe's Challenges: Low R&D intensity



Source: DG Research
 Data: Eurostat, OECD
 Notes: [1] KR: GERD does not include R&D in the social sciences and humanities
 [2] US: GERD does not include most or all capital expenditure

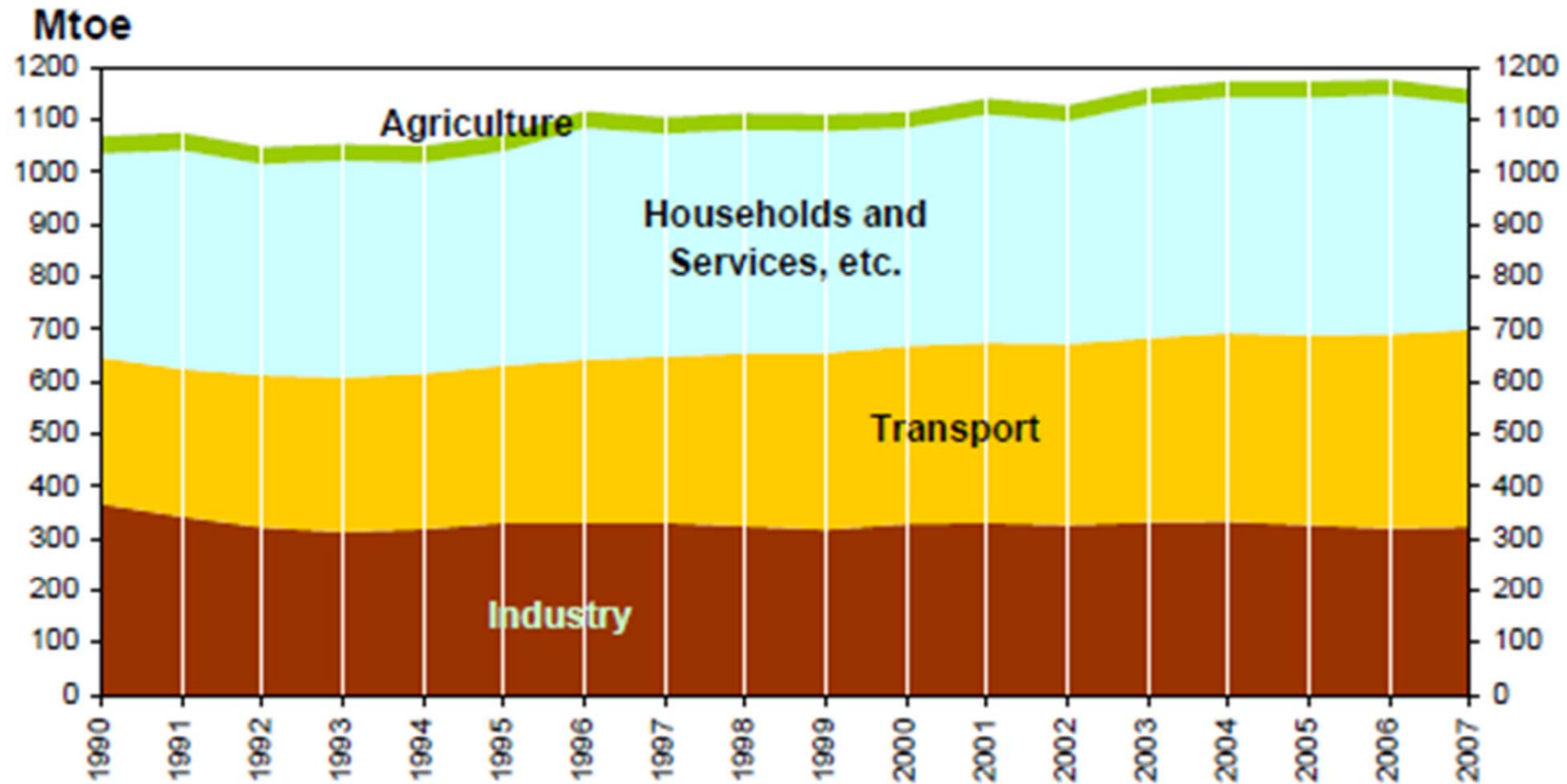
STC key figures report 2008

R&D intensity

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Europe's Challenges: Demand for Energy



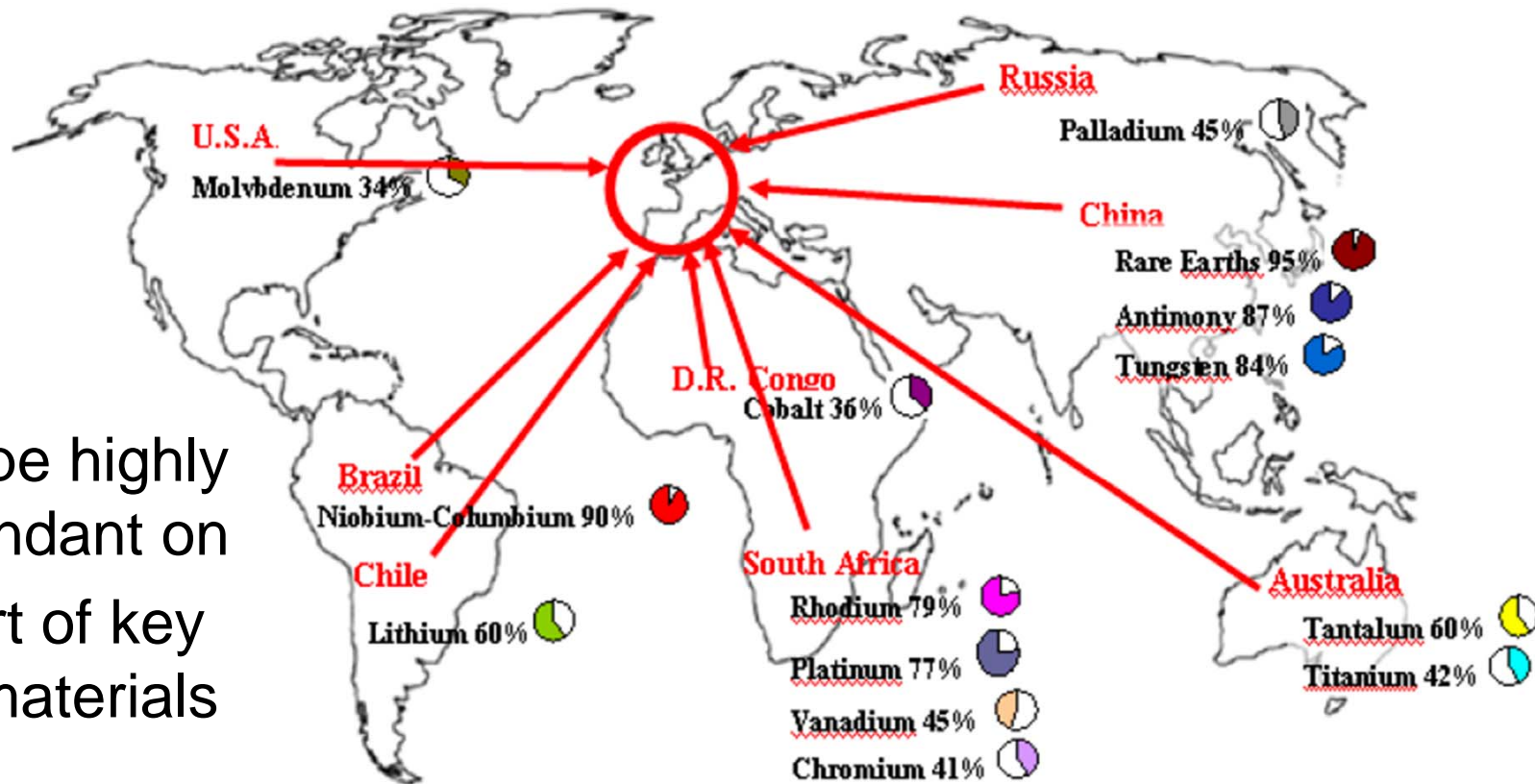
Source: Eurostat, May 2009

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Resource conservation

Europe highly dependant on import of key raw materials



Data source : World Mining Data (2008) **=USGS (2008)
The figures and pie graphs indicate the proportion of world production

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Europe's "20-20-20" Targets

- A reduction in EU greenhouse gas emissions of at least 20% below 1990 levels. If a global agreement is achieved the target will be 30%.
- 20% of EU energy consumption should come from renewable resources.
- A 20% reduction in primary energy use compared with projected levels should be achieved by improving energy efficiency.

Structure of EU's Climate Policy

20-20-20 Targets

The trading sectors:
Emissions Trading System
(ETS)

The non-trading sectors:
EU-legislation, labeling,
standards, etc

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Components of the Climate and Energy Package

- A revision and strengthening of the Emissions Trading System (ETS).
- An “Effort Sharing Decision” governing emissions from sectors not covered by the EU ETS.
- Binding national targets for renewable energy. Vary considerable between Member States: from 10% in Malta to 49% in Sweden.
- A legal framework to promote the development and safe use of carbon capture and storage (CCS).

Flagship initiatives under the Europe 2020-strategy

- Digital agenda for Europe
- Innovation Union
- Youth on the move
- Resource efficient Europe
- An industrial policy for the globalisation era
- An agenda for new skills and jobs
- European platform against poverty

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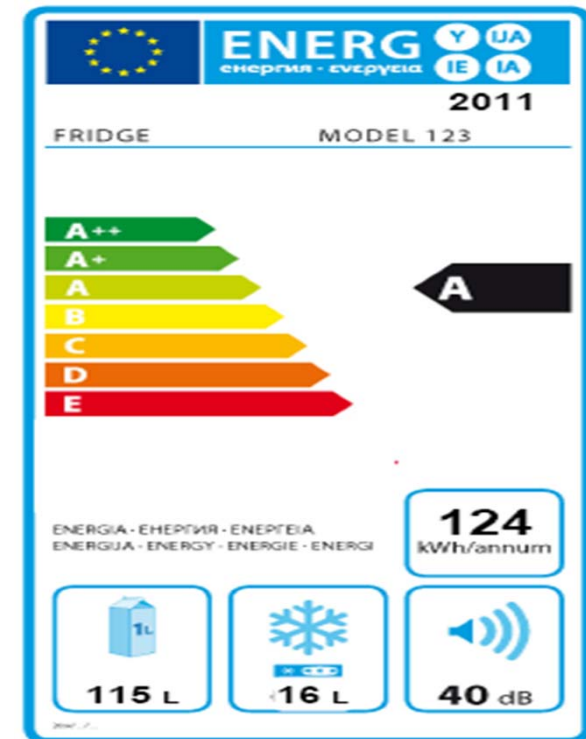


Energy Strategy under Europe 2020

- Communication: "Smart Grids: from innovation to deployment"
- Communication: "Energy Efficiency Plan 2011"
- Communication: "Energy 2020 - A strategy for competitive, sustainable and secure energy"
- Communication: "Energy infrastructure priorities for 2020 and beyond - A Blueprint for an integrated European energy network"

Consumer Oriented Legislation on Energy

- Energy labelling of domestic appliances.
- Labelling of tyres.
- European Energy Star Programme.
- Energy Efficiency in Buildings.
- Framework for energy end-use efficiency and energy services.
- Eco-design of Energy-Using Products.



Resource efficiency in Europe

- A secure supply of rare earth metals is the key to becoming a world leader in green technology.
- We need to boost overall resource-efficiency and promote recycling.
- As economies become greener, so competition for these resources will intensify.
- Two communications: “Roadmap for a resource-efficient Europe” and “Tackling the challenges in commodity markets and on raw materials”

Future Priorities for Europe

- Complete the internal market for energy.
- Energy efficiency:
 - Energy Efficiency Plan: a part of the Europe 2020-strategy.
- A modern energy infrastructure:
 - Smart grids.
 - Super grids.
 - Individual metering.
 - Infrastructure between member states.
- Successful policies on resource efficiency must be tied into policies on industry, R&D, sustainable economic growth and transport.

