

European Council for an Energy Efficient Economy

Europe & Energy Efficiency

Realizing the Potential of Energy Efficiency: Overcoming Barriers

Rob Kool

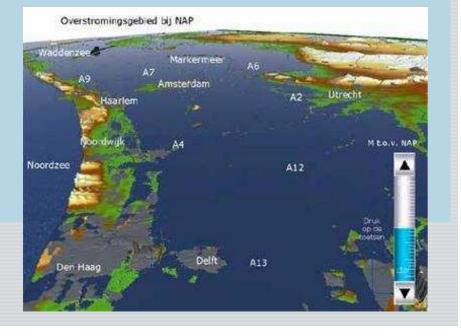
Vice Chair ECEEE

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This presentation

- ECEEE
- EU
 - Climate- en energy targets
 - Recent EU-energy policy
- Overcoming Barriers?



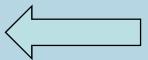






How do we get there.. in the EU

- Experiment
 - Framework programmes, IEE (Intelligent Energy for Europe)
- Negotiate & Legislate
- Implement
 - Translate
 - Enforce National Implementation
- Monitor & Evaluate
- Improve & Enforce







EU: Energy policy trends

Before 1990:

- Energy policy on national level
- Security of supply on OECD (IEA) level
- European R&D programmes

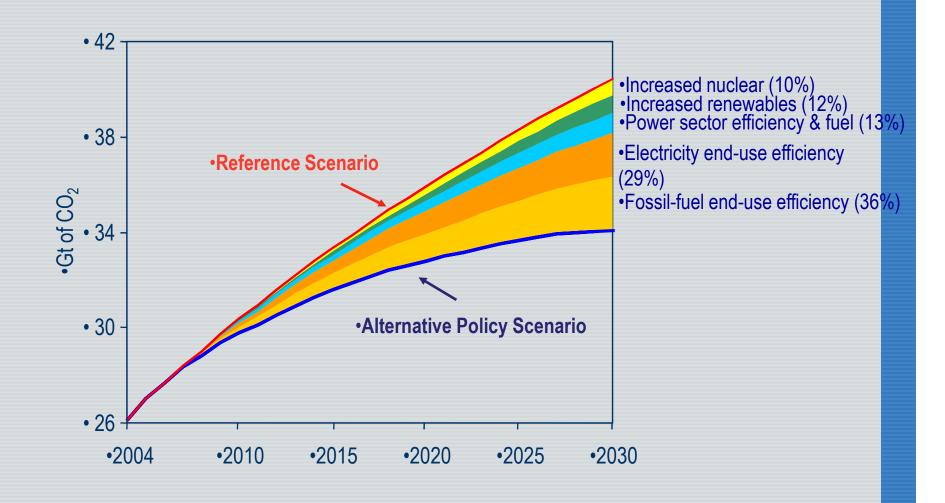
After 1990 (liberalisation, Climate policy):

- Liberalisation energy market
- Goals on RE / EE
- Programme's on sustainability & efficiency
- Participation in UNFCCC
- Frontrunner in international climate policy
- Frontrunner on emission trading





IEA Alternative Policy Scenario: Global Savings in Energy-Related CO₂ Emissions



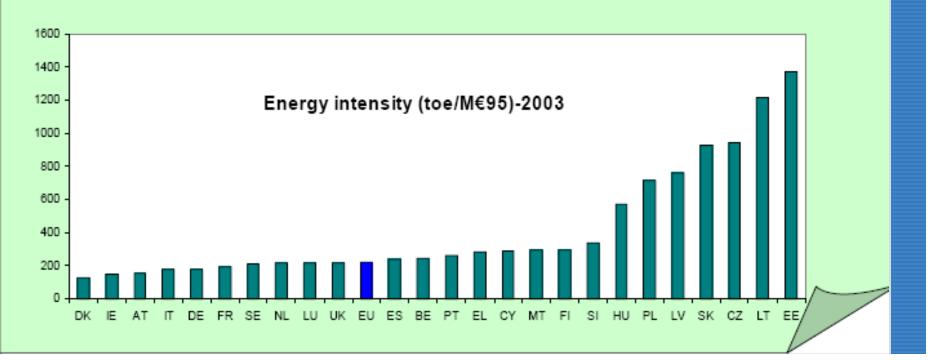
• Improved end-use efficiency of electricity & fossil fuels accounts for two-thirds of avoided emissions in 2030



The EU is working on it...

EXAMPLES of possible savings

Electricity production and cogeneration	70 Mtoe
Extension of buildings Directive	30 Mtoe
Eco-design	30 Mtoe
Transport	45 Mtoe





The EU is working on it...

- April 2006: Energy Service directive (ESD)
- October 2006: Action Plan for Energy Efficiency: realising the Potential
- January 2007: Communication "Towards a European Strategic Energy Technology Plan"
- March 2007: European Council Action Plan (2007-2009) - Energy Policy for Europe
- June 2007: National Energy Efficiency Action Plans



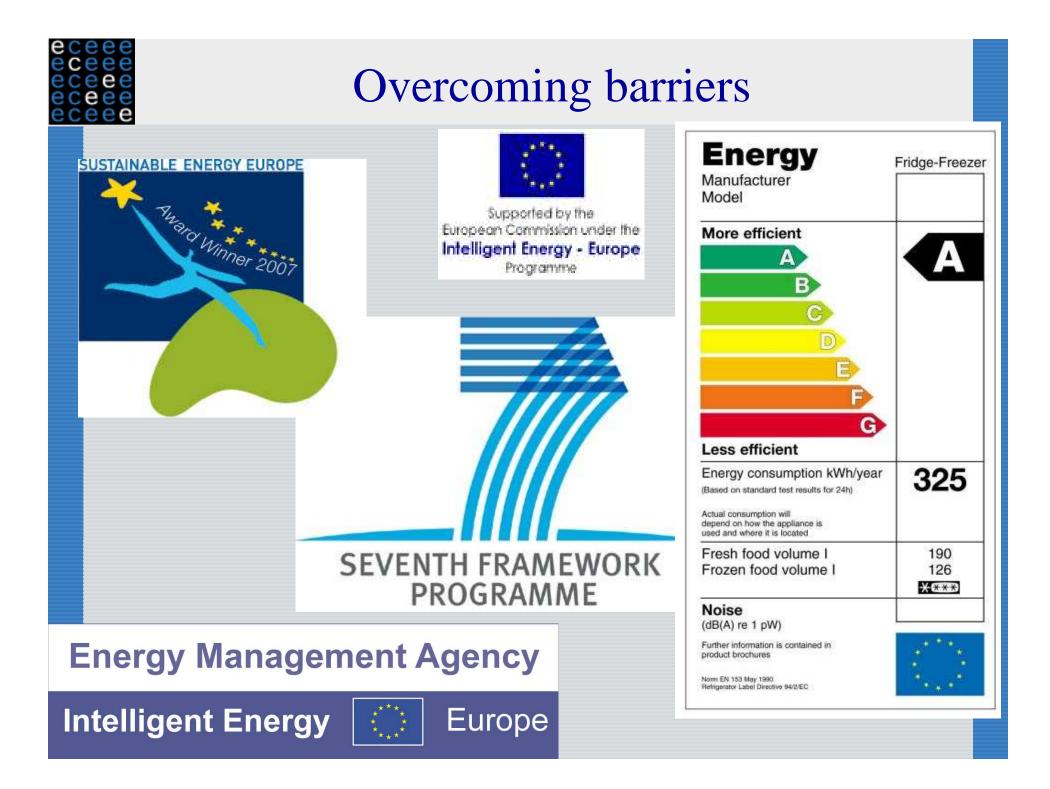
EU Action plan EE - 10 priorities

- Minimum efficiency standards appliances
- Improve Energy Performance Buildings Directive
- Energy production & distribution more efficient.
- Emission standards for new cars
- Financial support ESCO's & SME's
- Energy efficiency support for new Member States.
- Change energy tax directive
- Raise Public Awareness EE
- Covenant with majors– Exchange best practices
- International EE agreement



EU targets vs. Dutch targets

EU targets	Dutch targets
20% Energy Efficiency in 2020 (= 390 Mtoe)	Energy Efficiency increase 1% to 2% per annum
20% Sustainable Energy in 2020	20% Sustainable Energy in 2020, based on cost effectiveness and realized potential
20% less CO2-emissions in 2020 (30% in 2020 by international agreement)	Reduction emission greenhouse gasses with 30% (2020, 1990 base year)
10% bio fuels in 2020	 10% bio fuels in 2020 if: - sustainable - cost effective - 2nd generation bio fuels available





Overcoming Barriers

- Start Now...Energy Services Directive (1)
 - Promote cost-effective energy efficiency in EU Member States through obligations and the removal of institutional, financial and legal barriers.
 - Promote the development of a sustainable market for energy efficiency and energy services.
 - •Covers all energy end-use suppliers (Aviation fuels and maritime bunkers excluded).
 - •Covers all providers of energy efficiency improvement measures.
 - •Covers all energy end-use sectors (Emissions Trading sector excluded.)



Overcoming Barriers

- Start Now...Energy Services Directive (2)
 - No binding EE targets
 - But a lot op obligations for governments, energy provides & public sector.

• And consensus to work on binding targets, based on a common monitoring project (EMEES)

- Start enforcement.
- Don't waste time to set targets if you can start without



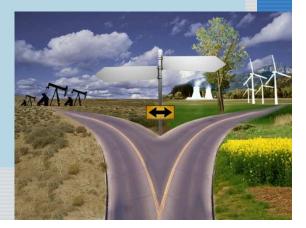




Overcoming Barriers

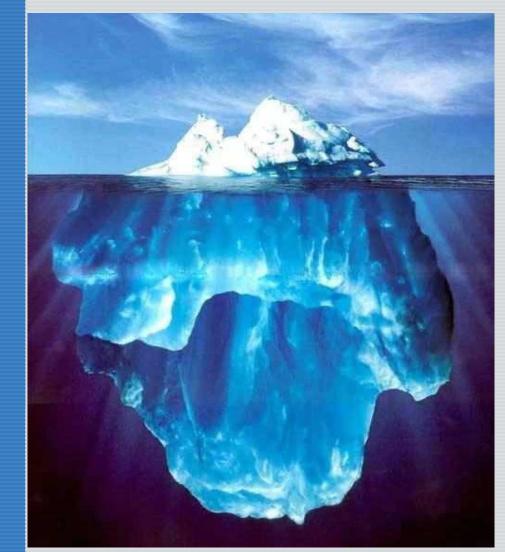
• Promote good examples:

- Corporation by municipalities & regions
- Long term agreements in industry (15 years running on average 2% per annum)
- Use of district heating, CHP
- Work on international corporation
 - Standards industry (level playing field)
 - Tackle Transportation problems
 - Enforcement
 - Explore behavioural change
 - Encourage (Asian) Entrepeneurs









Thank you!

Q&A?

www.eceee.org / www.senternovem.nl

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Recent EU Energy Efficiency Policy

- European Actionplan
- ETS = Trading system industry

Directives on

- Renewable Energy, including bio fuels
- Labelling
- Performance of Buildings
- Energy Services = Non ETS, non binding, 1% per annum
- Ecodesign = Standards Appliances
- CHP