



Challenges linking renewables

CHP and DSM

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**Proposal for a Directive on the promotion of
Cogeneration (CHP) COM (2002) 415**

**Proposal for a Directive on ECO-design requirements
for Energy Using Products COM(2003) 453**

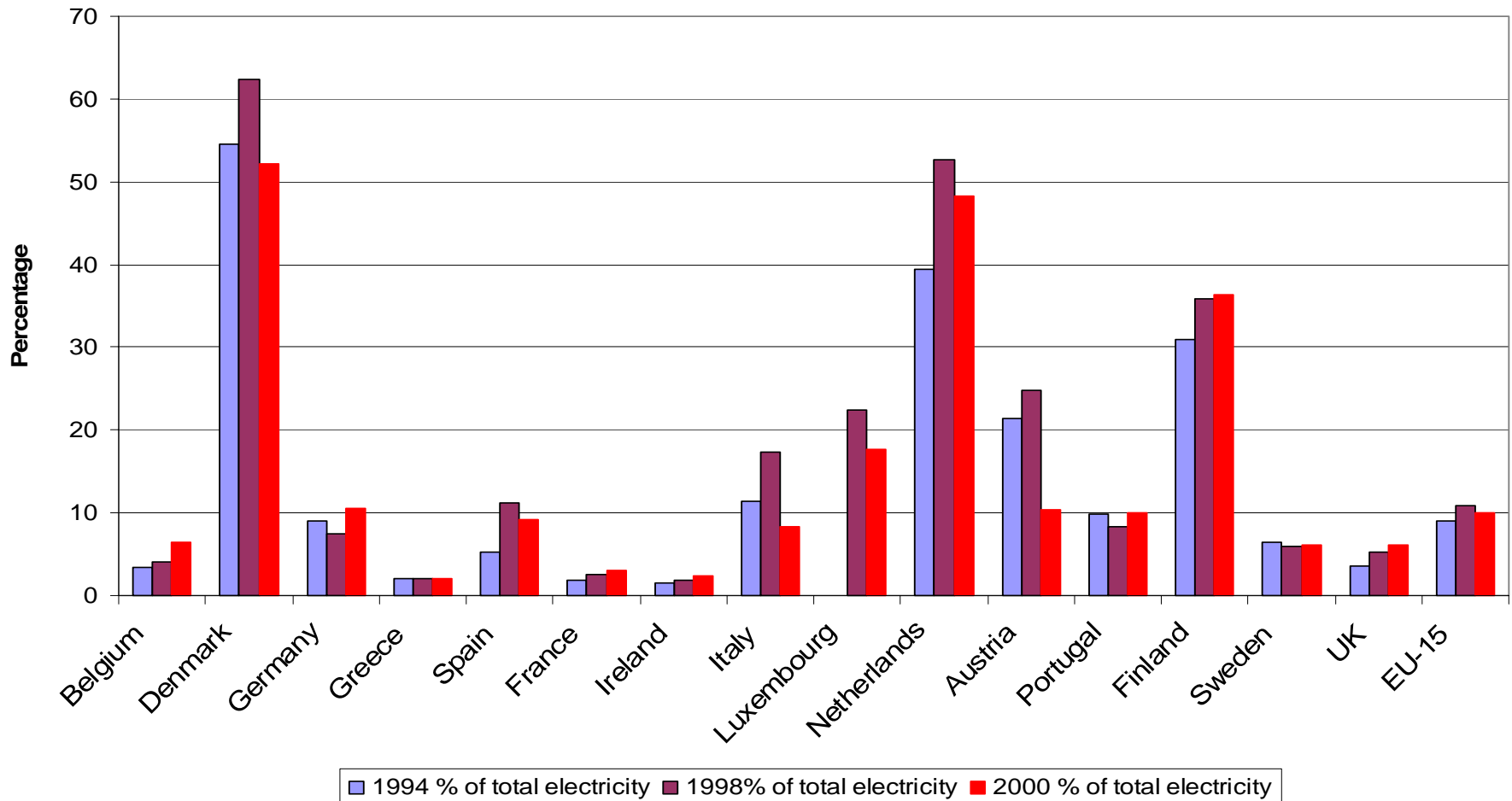
Directive 2002/91 Energy performance of buildings

Proposal for a Directive on energy services





CHP share of total electricity





Proposal for a Directive

Guarantee of origin

National potentials

Grid access

Support

Definition of electricity from cogeneration

Definition of high efficiency cogeneration





Renewables in the draft CHP Directive

A system of **Guarantee of Origin** as in RES-E

Analysis of national **potentials** must include potentials for RES CHP

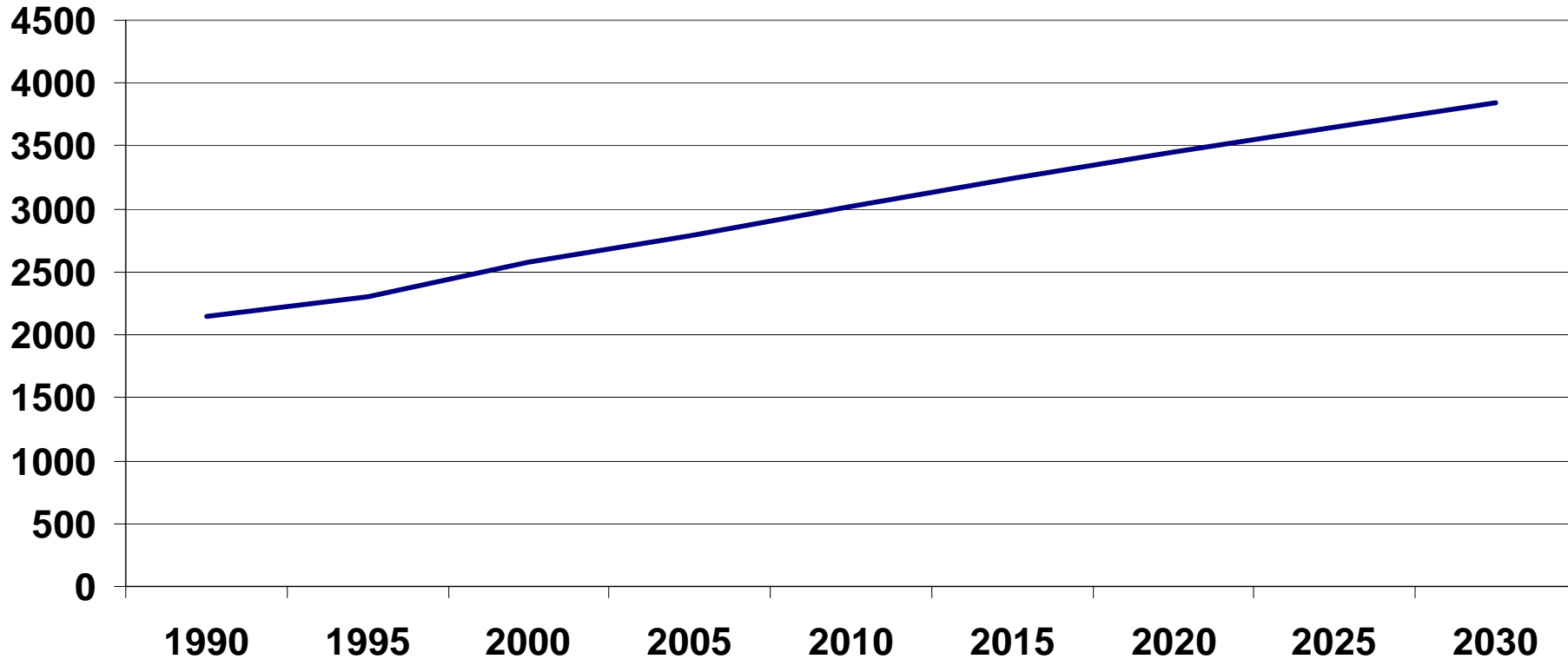
High efficiency cogeneration defined in a comparison with separate production based on the same fuel.

RES-CHP qualifies as high efficiency just from 0% savings.



Baseline

Electricity Generation TWh





Proposal on ECO Design

Proposal defines the rules for the Commission, assisted by a regulatory committee, to set requirements for the design of energy-using products.

Any product “dependent on **energy** input to work as intended...” (except vehicles)

Energy sources: in principle all; in practice : **electricity, oil, gas**





Proposal on ECO Design

Implementing measures are proposed for products which:

- represent a significant volume of sales and trade in the internal market;
- involve a significant environmental impact at European level;
- present a significant potential for improvement in relationship to this impact

The entire life cycle of the product is considered

Product performance, health&safety, impact on consumers, manufacturers' competitiveness, are taken into account



Energy Performance of Buildings

Objectives:

Promote the improvement of energy performance of buildings in EU with cost-effective measures.

Measures:

Methodology for integrated energy performance standards for buildings.

Application of these standards on new buildings and larger renovations.

Certification schemes for all buildings when built, sold or rented out.

Inspection & assessment of boilers/heating and cooling installations.



Energy Performance of Buildings

A common methodology for integrated minimum standards will integrate insulation, heating, hot water, cooling, ventilation, lighting, heat recovery, passive & renewable energy installations, indoor climate, position & orientation of the building;





Energy Services

Proposal for a Directive on Energy Services expected to be adopted by the Commission during the autumn.

Objectives

- To transform energy markets into energy services markets.**
- For MS to provide frameworks to promote and develop a market for energy services.**
- For energy distributors/retailers to be involved in energy services and participate in transforming market .**





Energy Services

Examples of measures:

Measures to promote energy auditing, informative billing, & other information services by energy distribution companies, retailers, equipment installers and others.

Obligations (targets) for public procurement to help enlarge market for energy services (1.5%/year).

Measures to improve metering (increased use of time-of-use tariffs, etc.) to allow more price & demand responsiveness, peak load shifting, etc.





Conclusion

- Creation of frameworks to be unfolded through MS policies and measures
- Emissions Trading
- Energy Taxation
- Measures aiming to level and fertilize the playing field for growth in green electricity