



Third meeting of the project  
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## Energy Efficiency Policies for Industry

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- Review topics
- Next steps

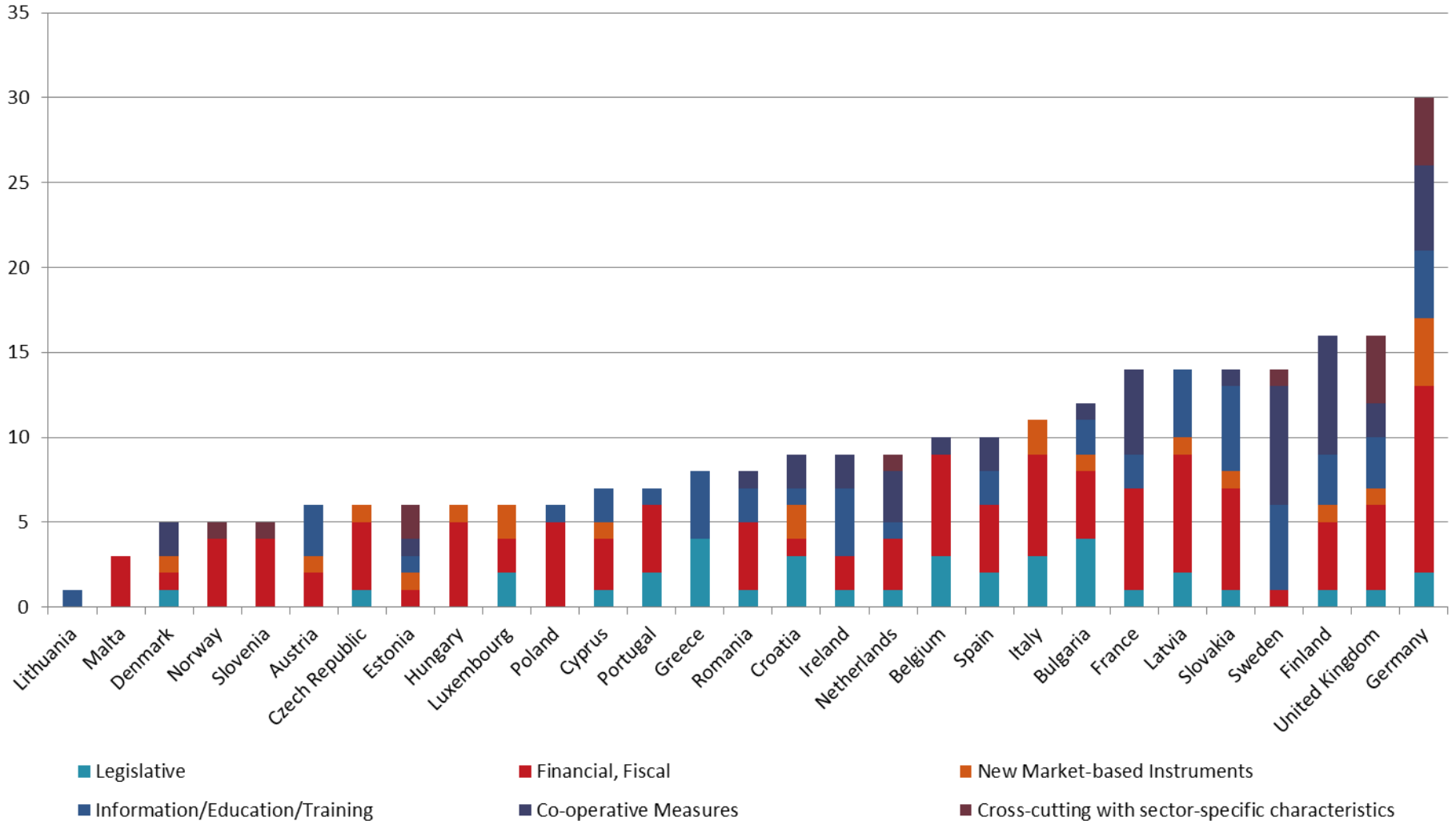


## Overview of Measures for Industry

- Total number of measures in the database: 275
  - EU-27 (245) + Croatia (5) + Norway (15) +EU (10)
- 67% (167) of measures from 2000 onwards and 27% (74) from 2007 onwards
- 99 measures with quantitative impact assessment
- 47 measures with “unknown” semi-quantitative impact assessment status
- 66 NEEAP measures → Deficiencies in the updates!
- 39 European measures → Deficiencies in the updates!

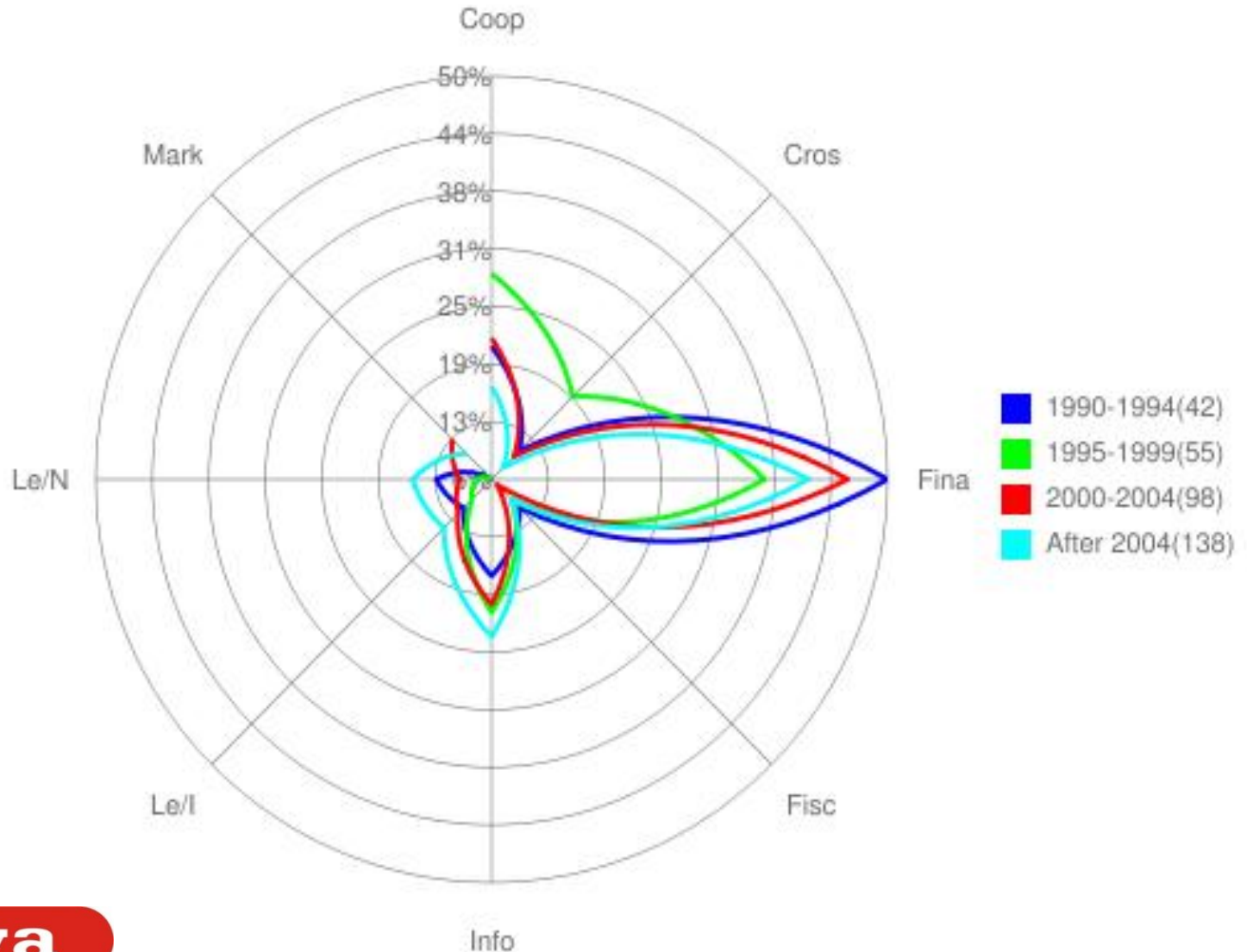


# Type of Ongoing Industrial Measures per Country



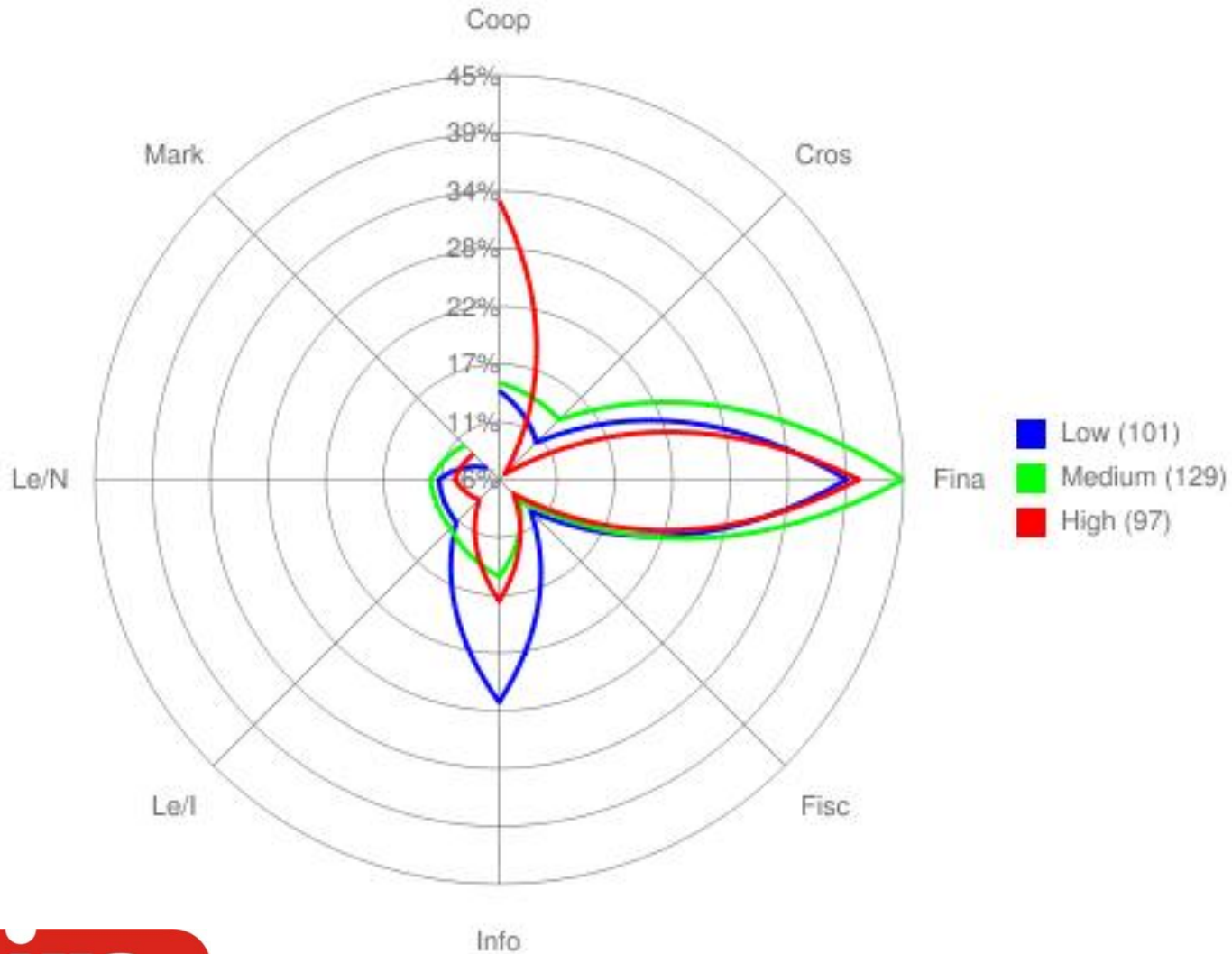


# Development of Measures by Type over Time



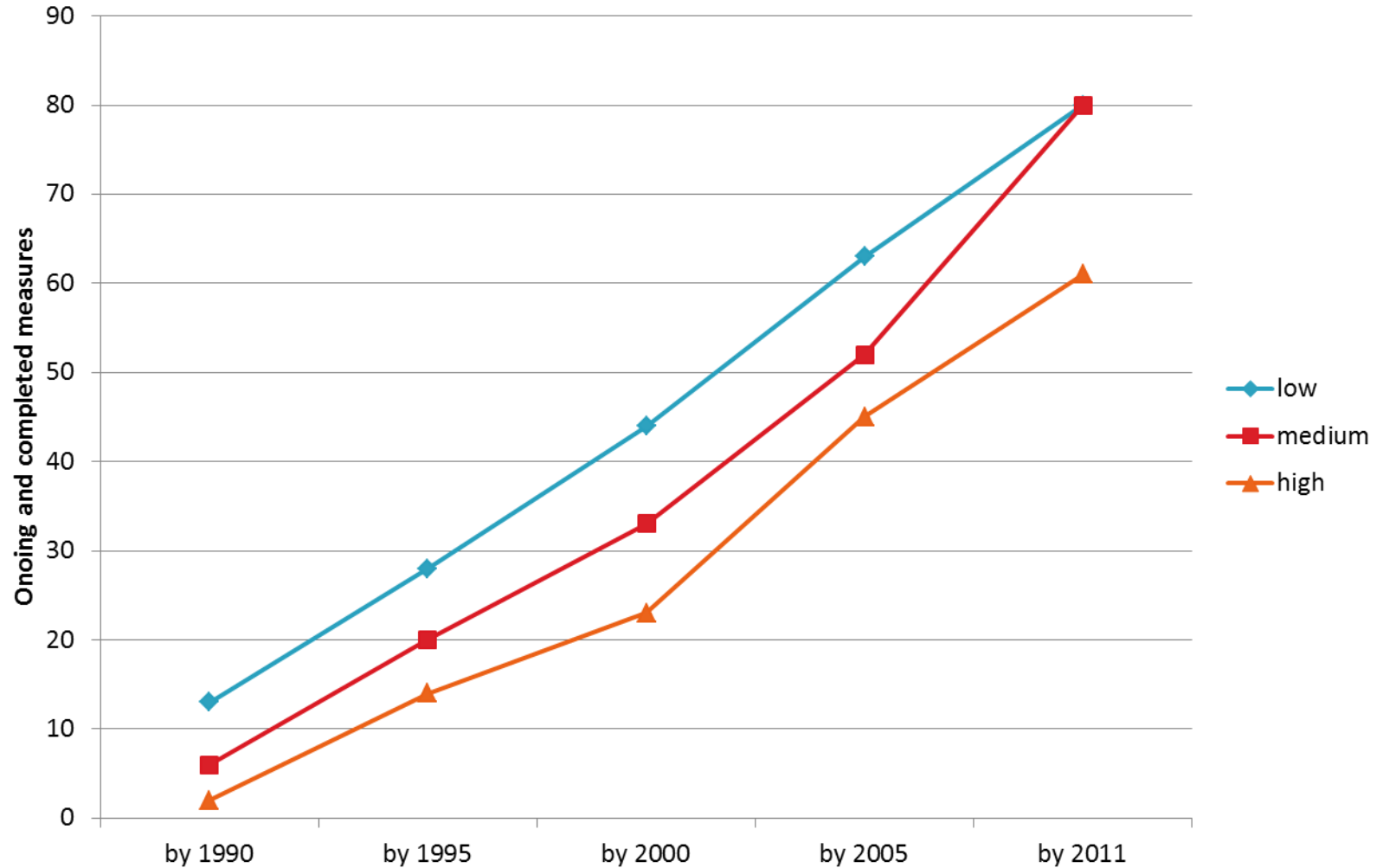


# Measures by Impact Category and Type





# Measures by Impact Category and over Time



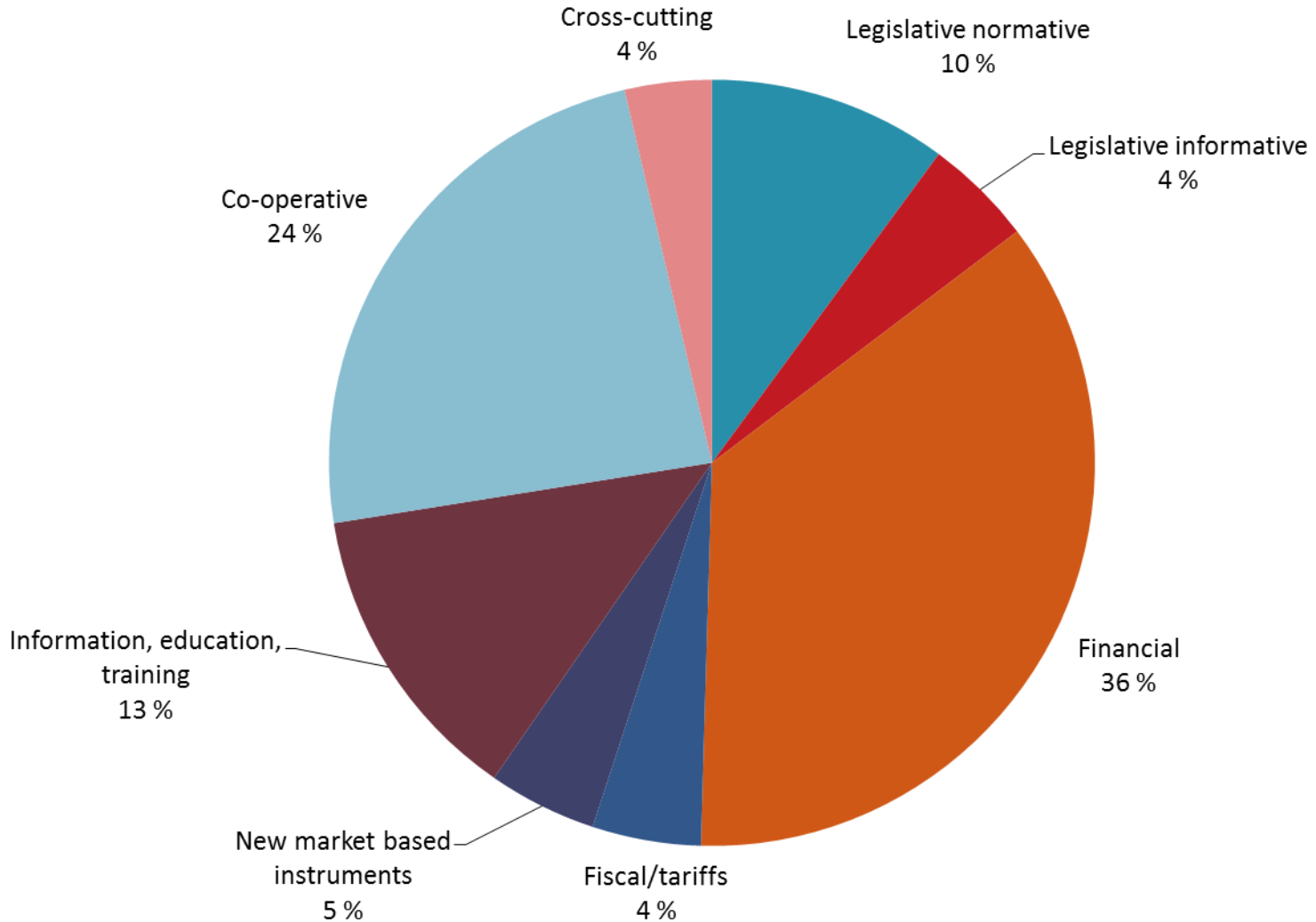


# High Impact Measures/Packages of Measures

- 63 measures (42 ongoing, 3 proposed, 18 completed)
  - 22 financial/fiscal (of which one is also legislative)
  - 19 co-operative
  - 11 information, education, training (of which 5 are also financial)
  - 6 legislative
  - 4 Emissions Trading
  - 1 cross-cutting
- 9 countries have not reported any high impact measures



# Quantitative Impact Assessment – High Impact Measures





## NEEAP-2

- One of the focus areas of the analysis
- Insufficient categorization of measures as NEEAP measures
- Viewpoints:
  - Is the priority of the industry measures in energy efficiency policy in balance with the significance of the sector in energy consumption (share of industry in TFC varied from 12% to 50% in 2008; EU average 27%)
  - New measures
  - Packaging of measures
  - Impact evaluations (methods, impacts)
  - Measures vis-à-vis the draft Energy Efficiency Directive
  - Reliance on various directives such as the Emissions Trading and the Eco-design Directives



# EU Measures in the MURE Database

Code	Title	Status	Type	Starting Year	Ending Year	Semiquantitative Impact	NEEAP Measure
<a href="#">EU1</a>	Motor Challenge Programme	Ongoing	Information/Education/Training	2002		Low	No
<a href="#">EU2</a>	Voluntary labelling of electric motors (CEMEP/EU Agreement)	Completed	Co-operative Measures, Information/Education/Training	2000	2003	Low	No
<a href="#">EU3</a>	E2MAS	Proposed (advanced)	Legislative/Informative	2003		Low	No
<a href="#">EU4</a>	EU Emission Trading Scheme (2003/87/EC)	Ongoing	New Market-based Instruments	2005		Unknown	No
<a href="#">EU9</a>	Combined Heat Power (Cogeneration) (Directive 2004/8/EC)	Ongoing	Legislative/Normative	2004		High	No
<a href="#">EU10</a>	Efficiency reference values for electricity and heat production	Ongoing	Legislative/Normative	2007		Unknown	No
<a href="#">EU11</a>	European Green Light Programme	Ongoing	Co-operative Measures	2007		Low	No
<a href="#">EU12</a>	Amended EU Emission Trading Scheme (Directive 2009/29/EC)	Ongoing	New Market-based Instruments	2012		Medium	No
<a href="#">EU13</a>	Integrated Pollution Prevention and Control IPPC (Directive 2008/1/EC)	Ongoing	Legislative/Informative	2008		Low	No
<a href="#">EU14</a>	Community framework for the taxation of energy products and electricity (Directive 2003/96/EC)	Ongoing	Fiscal/Tariffs	2004		Low	No



## EU Energy Efficiency Plan, Page 1/2

- Adopted on 8 March 2011
- Efficient generation of heat and electricity
  - BAT in new investment
  - Emissions Trading and Industrial Emissions Directive
  - Cogeneration: district heating and cooling
    - Member countries to mandate CHP when sufficient heat loads exist
    - Priority access for electricity from CHP
- Energy efficiency in electricity and gas networks
- An energy saving scheme for energy utilities
  - Energy saving obligations for industry
  - ESCOs



## EU Energy Efficiency Plan, Page 2/2

- Increasing the competitiveness of European industry
  - Planned energy taxation revision
  - Sound energy management
  - Mandatory regular and independent audits for larger industries
  - Longer planning horizons
  - SMEs – information dissemination; incentives; benchmarking tools to be provided by the Commission
  - Eco-design requirements for industrial equipment
  - Voluntary agreements
  - Research and innovation as catalyst for cost-effective energy efficient technologies in industry



# Industry Measures in the Draft Energy Efficiency Directive, Page 1/2

- Draft 22 June 2011
- Energy efficiency obligation scheme (Article 6) but no tradable white certificates
- Energy audits and energy management systems (Art. 7)
- Metering and informative billing (Art. 8)
- Promotion of efficiency in heating and cooling (Art. 10)
  - National heating and cooling plans by 1 January 2014. Updates to be submitted in every five years.
  - Efficient district heating and cooling infrastructure
  - Provisions for mandatory CHP when new power gen. capacity is needed
  - Priority dispatch of electricity from CHP



# Industry Measures in the Draft Energy Efficiency Directive, 2/2

- Data collection on the fuel combustion plants and refining facilities (Art. 11)
- Energy transmission and distribution (Art. 12)
- Certification schemes for the providers of energy services, energy audits and energy efficiency improvement measures (Art. 13)
- Energy services (Art. 14)



## Other International Initiatives

- IEA recommendations for industry (G8 Action Plan)
  - 6.1 Collection of high quality energy efficiency data for industry;
  - 6.2 Energy performance of electric motors;
  - 6.3 Assistance in developing energy management capability;
  - 6.4 Policy packages to promote energy efficiency in small and medium-sized enterprises.
  
- Eco-design Directive
  - Direct impact: efficiency of process equipment
  - Indirect impact: efficiency of final energy-related products over their lifecycle
  - Are there measures other than the Eco-design Directive pursuing better efficiency of process technologies?



## Review topics

- What is the policy status of industrial energy efficiency? How is this reflected in the measures?
- The impact of the economic and financial turmoil on policy design and implementation? New measures by type? Terminated measures? Planning horizons/longevity of measures?
- MURE measures vis-à-vis the Draft Energy Efficiency Directive?
- MURE measures vis-à-vis the IEA recommendations? E.g. tailoring of measures for SMEs and promotion of energy management in them.
- MURE measures in the domain of the Eco-design Directive?
- Review of innovative measures (proposals are welcome)
- Review of high impact measures (proposals are welcome)
- Packaging of measures? Addressing barriers beyond the financial ones: social and behavioural factors which influence decision making on energy efficiency investments.



## Next Steps

- Feedback on the in-depth review results in October-November
- NEEAP-2 review after the next MURE update by the end of November
- Brochure deadline April 2012