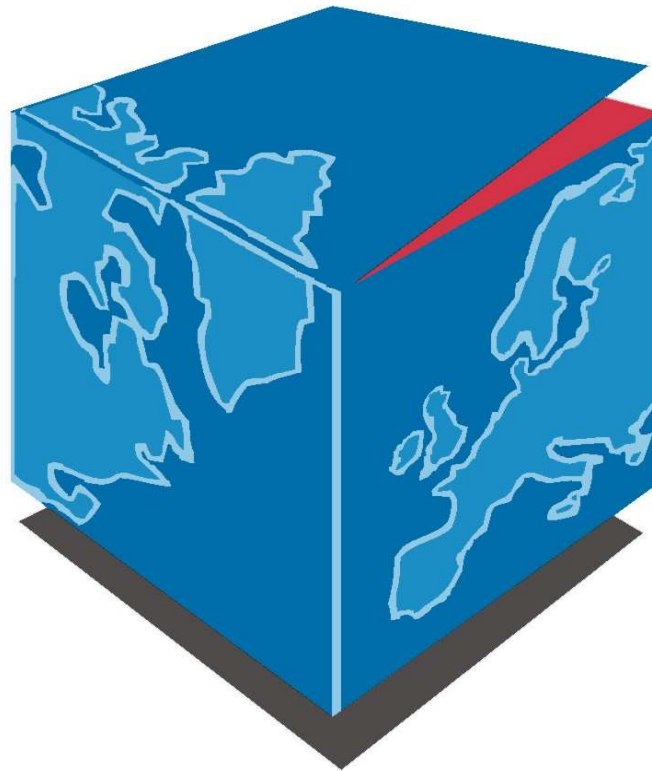


Energia Központ Kht.



Energy Centre Hungary



Industrial EE-policies in Hungary

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Energy Centre

Lecture at ODYSSEE-MURE workshop

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Major pillars of Hungarian NEEAP in industry

- Running EE-actions
 - Environment and Energy Operative Programme (financial assistance)
 - Energy Efficiency Revolving Fund for the investment of business sector (soft loan)
- Planned EE-actions in the NEEAP
 - Mandatory application of energy management experts at large consumers
 - Mandatory energy consumption report of large consumers
 - Voluntary agreement with energy intensive subsectors for reduction of energy consumption
 - Better financial conditions for ESCO-s with tax reductions
 - Modernisation of district heating systems
 - Reduction of transformation losses in the electricity grid



Stressed measures of NEEAP I.

- **Environment and Energy Operative Programme (2007-2013)**
 - Public institutions
 - Municipality institutions
 - Small and medium enterprises of industry
 - General Subsidy Rate 10-50% (12-17% for modernisation of heating, 8-12% for modernisation of lighting)
 - Subsidised activities
 - Reduction of energy consumption in public and municipality buildings
 - Modernisation of lighting systems in public and municipality buildings
 - Additional thermal insulation, replacement of windows and doors for public and municipality buildings
 - Change of boilers for public and municipality buildings
 - To build regulation for heating systems
 - Energy saving target :0,75-0,9 PJ/year



Stressed measures of NEEAP II.

- **Energy Efficiency Revolving Fund**
 - The Fund provides loan facilities up to 80% of project costs
 - Maximum loan 100 million HUF (400 000 EUR)
 - Typical projects are related to heating systems, interfuel changes of boilers and reduction of losses of energy transformations, installation of CHP units
 - Energy saving target :0,55-0,65 PJ/year
- **Mandatory application of energy management at large energy consumers**
 - At large consumers improvement of the standard of energy management usually results in a significant saving of energy
 - Under the general economic liberalisation employment of energy management experts was revoked
 - The standard of energy management can be greatly improved by a mandatory employment of energy management experts
 - Energy saving target: 0,2-0,4 PJ/year



Stressed measures of NEEAP III.

- **Third party financing within EEOP (successor of „Apple of our Eyes“ for public education institutions)**
 - For public and municipality institutions
 - An ESCO-company will be involved for financing
 - Additional thermal insulation
 - Replacement of windows and doors
 - To build regulation for heating
 - To change of boilers
 - To regulate of boilers
 - Modernisation of lighting



ESCO activities

- **ESCO-s offer to carry through the EE-projects on a turnkey basis**
 - To audit energy use, to identify possible energy savings
 - To install the recommended energy systems
 - To maintain the energy systems and bear the costs of the whole operation
 - The benefits of energy savings will be shared between client and contractor
 - To reduce the consumption on demand side
 - Refurbishing an energy system
 - Street lighting, building insulation
 - Higher efficiency on supply side
 - To install CHP
 - Change the consumer behavior by measuring
 - Industrial energy management



Thank You for Your Attention!

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