Energy Efficiency Agreement and Energy Management System

Workshop on Energy Management Programmes

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Energy Conservation Agreements 1997–2007
Energy Efficiency Agreements 2008–2016

- Voluntary, no legislation connected to the agreement
- A flexible tool to implement national climate and energy strategy and some EU policies related to the energy efficiency
- An alternative and complementary mean for regulations and taxes
- Benefits for companies and other organisations to join agreements
  - flexible instrument to improve energy efficiency and save costs
  - possibility to prove energy efficiency for environment authorities (industry)
  - energy audits and investments are closely connected to the agreement scheme and subsidised by the government

Energy Efficiency Agreements 2008-2016

ENERGY EFFICIENCY agreements

Energy efficiency agreements 2008–2016

- Industry
- Energy sector
- Services

Responsible Ministry:
Ministry of Employment and the Economy

Energy efficiency agreement and Energy Programme for municipal sector

- Municipalities
- Joint municipalities

Responsible Ministry:
Ministry of Employment and the Economy

Energy efficiency agreements for transport sector

- Goods transport and logistics
- Public transport

Responsible Ministry:
The Ministry of Transport and Communications

Energy efficiency agreement for oil sector - Höylä III

- Distribution of liquid heating and transport-fuels
- Oil heated buildings

Responsible Ministry:
Ministry of Employment and the Economy

Energy efficiency agreement for property and building sector 2010-2016

- Housing properties (1
- Commerial properties (2

Responsible Ministries:
1) Ministry of Environment
2) Ministry of Employment and the Economy

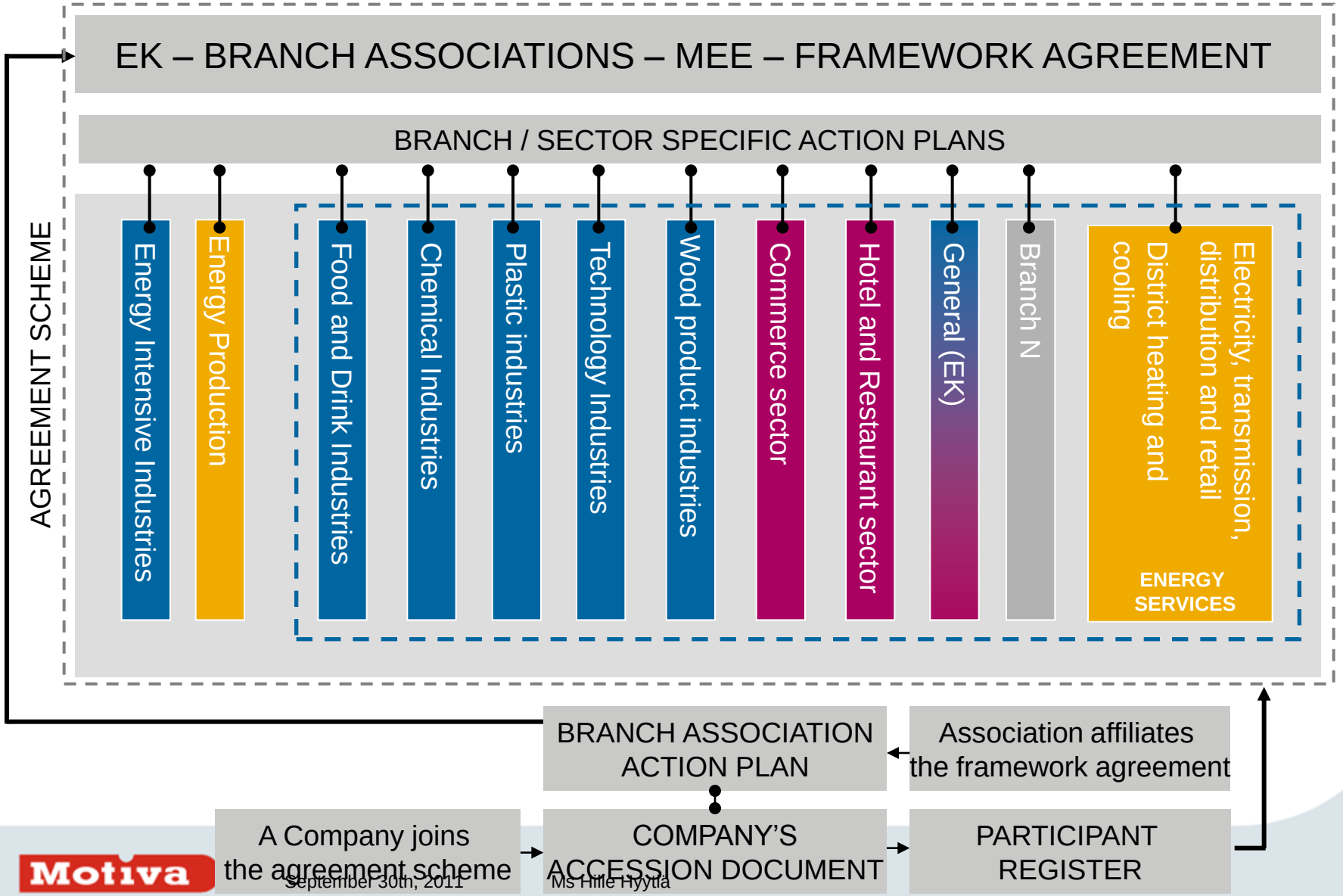
Energy programme for finnish farms 2010-2016

- Farms

Responsible Ministry:
The Ministry of Agriculture and Forestry

www.energyefficiencyagreements.fi

Energy Efficiency Agreement 2008–2016



Commitments for companies

The functional goal is to include continuous improvement of energy efficiency and increasing of the use of renewable energy sources to parts of management systems in companies...

”...always, when it is economically, technically and safety- and environmental aspects observing possible.”

Measures to improve energy efficiency in companies and communities

- Energy audits and analyses
- Implementation of the energy conservation plan
- Energy conservation investments
- Energy efficiency in all investments and procurements
- Development of follow-up of energy consumption
- Education of employees
- Internal and external communication
- Reporting

Commitments for energy intensive sector (industry and big power plants)

“The Company commits itself to constant improvement of energy efficiency by introducing the Energy Efficiency System (Appendix) as follows:

- In accordance with the Energy Efficiency System, the Company will incorporate energy issues in the existing management system of the Company within 12 months of joining the agreement scheme
- The Company ensures within 24 months of joining the agreement scheme with the management’s survey that the Company has taken into account in its practical activities the constant improvement of energy efficiency in the manner described in the Energy Efficiency System
- The Company commits itself to using the Energy Efficiency System throughout the agreement period”

Energy Efficiency System EES

- Was developed for the Energy Efficiency Agreements
- Is based on ISO 14001
- Is not a standard but a tool integrate energy efficiency issues into the company's existing management system
- Contains the same aspects than EN 16001 and ISO 50001 standards but is on more general level
- External sertification is not required

Some conclusions

- According to the three years experiences of Finnish energy intensive industry
  - It will take 1-2 (…3) years to integrate Energy Management System to existing management system (often ISO 14001)
  - Sertified system is not always needed ? But some kind of regular monitoring is necessary (internal or external for example in connection of annual reporting of energy efficiency agreement)
  - Companies need support in implementing and using the Energy Management System
    - Seminars in topical issues, training , material, site visits (!) , mutual development projects, (inoffical ”steering group”)
  - Better results and bigger savings in energy costs when Energy Management System is used

Energy Management System and SMEs

- Implementing of Energy Management Systems is not mandatory for SMEs who have joined to the Finnish Energy Efficient Agreement. But companies must carry out similar measures than listed on the Energy management System
- More support is needed to SMEs than to big companies to implement Energy Management System
  - Often less resourses
  - Less awereness of importance of energy efficiency ?
  - Sertified system too heavy to small companies?

Thank you !

Lisää tietoa
www.motiva.fi