

## What is EK?

EK represents the interests of its members in business and employment matters, and in decision-making in society.

EK represents the entire private sector and companies of all sizes.

- 25 member federations
- 16,000 member companies, 96% of which are SMEs
- Around 950,000 employees

When a company joins an employers' association representing its own branch, it also becomes a member of EK.



# **Energy Efficiency Agreements 2017-2025:**

http://www.energiatehokkuussopimukset2017-2025.fi/en/

#### **INDUSTRIES**

**ENERGY EFFICIENCY AGREEMENT** 

#### **INDUSTRY**

Energy Intensive Industry I Food and Drink Industry I Chemical Industry Technology Industry I Wood Product Industry I Industry - General

#### **ENERGY SECTOR**

Energy Production | Energy Services

#### SERVICE SECTOR

Commerce Sector | Hotel and Restaurant Sector | Motor Trades & Repairs | Services – General

#### PROPERTY SECTOR

**ENERGY EFFICIENCY AGREEMENT** 

COMMERCIAL PROPERTIES
HOUSING PROPERTIES

### **MUNICIPAL SECTOR**

**ENERGY EFFICIENCY AGREEMENT** 

CITIES & MUNICIPALITIES &
JOINT MUNICIPALITIES

### HÖYLÄ IV – OIL SECTOR

**ENERGY EFFICIENCY AGREEMENT** 

## DISTRIBUTION OF LIQUID HEATING FUELS

Oil-heated real estates





## Why Voluntary Energy Efficiency Agreement?

- Alternative measure for regulations to implement the energy efficiency directive EED and the national climate and energy strategies
- A present phase 2017-2025 is based on earlier phases in place since 1992: Good results!

### Financial benefits for a company:

- Subsidies for energy audits for SME's
  - 50% of energy audits in micro, small and medium-sized enterprises
  - 40% of other energy audits, analyses and investigation projects
- Subsidies for conventional energy efficiency investments (case-dependently)
  - 20% for participants; 25% when an energy service company (ESCO) is used
  - Pay-back time needs to be over 3 years. If 3-5 years, additional explications are required from the large companies.
- Subsidies for new technology energy efficiency investment (case-dependently)
  - 40% maximum

No energy tax connection – separate schemes function better!

# Results from the previous period of 2008-2016: reported by about 460 joined companies with over 4200 sites



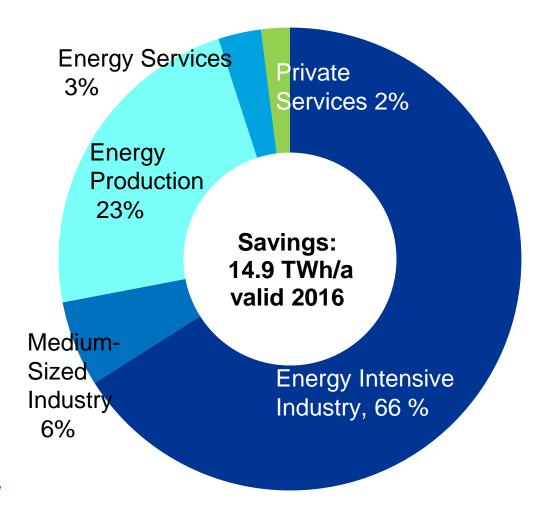
## **Industry and Private Services, 11 TWh/a**:

- Savings of heating energy and fuels 9 TWh/a
- Electricity savings 2 TWh/a
- CO<sub>2</sub> savings about 3.2 mill. Ton/a
- About EUR 580 million investment costs
- Savings in energy costs EUR 1.6 billion cumulatively, EUR 380 million annual 2016

## **Energy subsidies granted to all sectors:**

- For energy audits EUR 8.9 million
- For energy-saving investments EUR 61 million

Targets were achieved by 92-220 % depending on sector



# Pay-back times in Energy Intensive Industry 2008-2016: Even 38 % of electricity savings with no investment



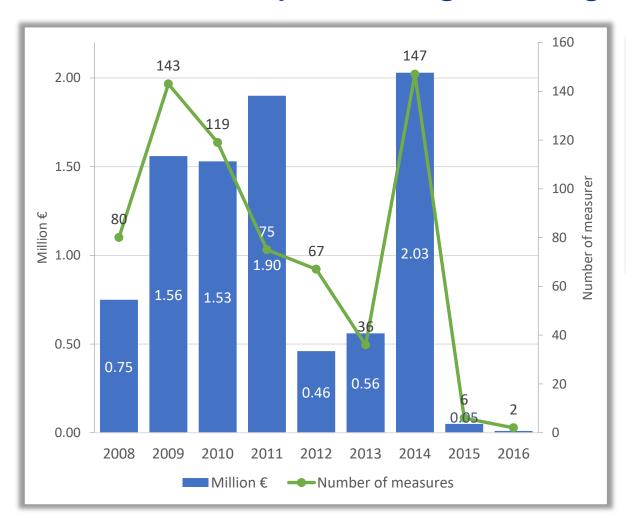
Pay back time, year	Number of measures	Electricity savings	Share of saved electricity	Heat and fuels savings	Share of saved heat and fuels
		GWh/a	%	GWh/a	%
PBT=0	379	693	38%	1228	15%
0>PBT>1	290	276	15%	1574	19%
1< PBT>2	427	607	33%	4004	47%
2 <pbt>5</pbt>	150	111	6%	1127	13%
Over 5	219	148	8%	516	6%

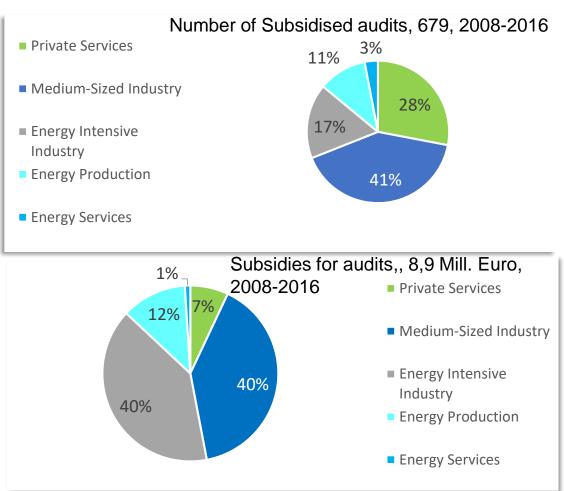
30.11.2017 Kati Ruohomäki

Source: Motiva Oy

# Number of **subsidised** Energy audits collapsed after the mandatory auditing for large companies on 2015

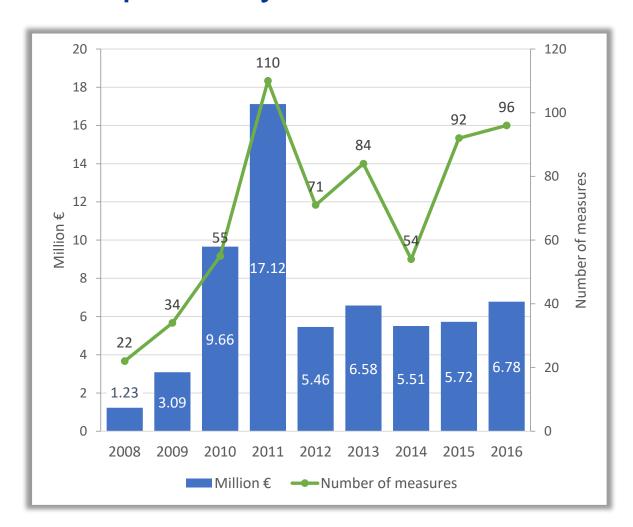


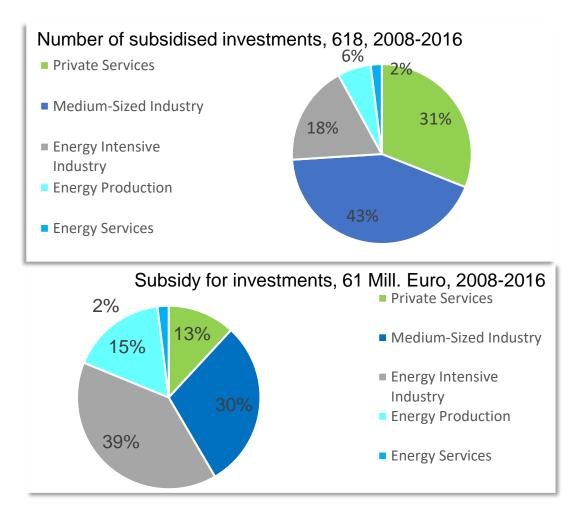




# Subsidies for EE-investments stable level after two exceptional years 2010 and 2011







Source: Motiva Oy



## Conclusions

- A hard competition inside companies: which investments will be approved?
  - Less and less pure energy efficiency investment will be realized
  - but energy efficiency is an important part of every investment (improves the viability)
- Subsidies especially important for SME's, but ETS restricts subsidies for large companies.
  - Still lack of information to be seen: for example criteria for subsidies are not widely known
- Companies are satisfied also on other kind of support:
  - Development projects within the agreement: a group of companies, technology suppliers and Motiva's energy experts focus on specific topic, for instance industrial ovens (projects are partly self-financed)
  - Councelling of SME's by Motiva: visits, calls, case publications, etc
  - "Peer support" from colleagues in the steering groups of every action plans (meetings 2-4 times annually)

We continue with earlier good practices and collect new ideas continuously from companies!

Kati Ruohomäki











## Kati Ruohomäki

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- Energy and material efficiency
- **EU Emissions Trading Scheme**
- **Energy taxation**
- **Electricity market**

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