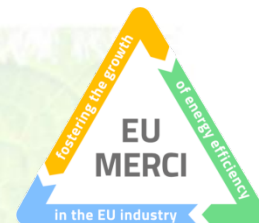


EU-MERCI

EU coordinated **M**ethods and procedures based on **R**eal **C**ases for the effective implementation of policies and measures supporting energy efficiency in the Industry

Fostering the growth of energy efficiency in the EU industry



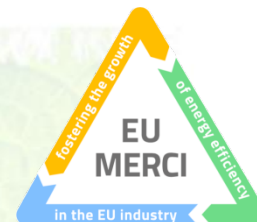
EU survey and report from questionnaires

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17/02/2017

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 693845



Questionnaires



Objective:

To conduct a survey aiming to collect information concerning the barriers and the current status of the implementation of Energy efficiency measures in industry EU-wide

Are in 3 versions :

A. Industrial Companies

B. ESCOs

C. Industrial Associations/Federations

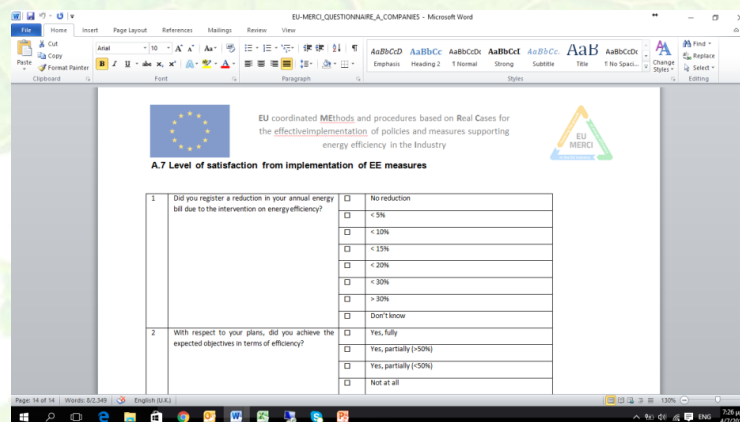
Are in 2 Types:

Word File

Web Form

Time Period:

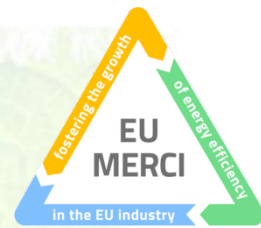
From July to October 2016



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Structure of the questionnaire



The questions have been divided in 10 categories

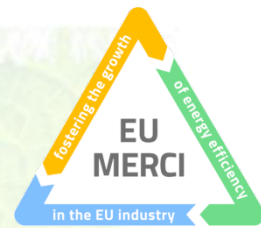
1. Company identity
2. Energy issue awareness
3. Energy use
4. Energy Efficiency approach
5. Motivations towards Energy Efficiency measures
6. Technical description of EE measures
7. Level of satisfaction from implementation of EE measures
8. Economic feasibility of energy efficiency investments
9. Economic and procedural barriers of energy efficiency investments
10. Organizational feasibility for implementing energy efficiency measures



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Number of responses and sectors



Companies:

130 replies from 9 countries (Italy, Bulgaria, Romania, Slovenia, Netherlands, Poland, Greece, Czech Republic and the UK).

Characteristics:

- Middle to very large size companies
- Good awareness on energy issues
- The energy cost of the majority is the 2-10% of their turnover

ESCOs:

15 replies from 4 countries (Italy, Bulgaria, Greece, Romania).

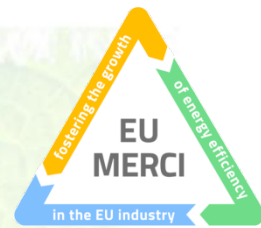
Associations:

13 replies from 8 countries (Italy, Bulgaria, Romania, Slovenia, Netherlands, Czech Republic, Sweden and Portugal).

Sectors:

Biogas, energy consumers, industries of food and drinks, oils and fats, wood and furniture, cement and construction minerals.





Awareness: Most have been certified to ISO 50001, use energy performance indicators, have an energy manager

Motivation and technical approach: The majority of the industries applied energy efficiency measures to the manufacturing process aiming to reduce their energy costs.

Popular solutions:

the use of inverters (VSD systems), the use of high efficiency electric motors and the energy management systems (PLC, automation, etc.).

Results and satisfaction:

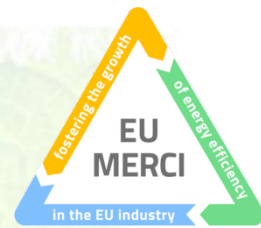
5% reduction to the annual energy bill

45% have achieved the expected objectives in terms of efficiency, respective to their initial plan

Funding: Mainly by their own capitals (81%)

Barriers: Too long payback time, investment costs, bureaucracy





Most served companies not affiliated to a group, had participated to Energy Efficiency support scheme.

Most prevalent energy efficiency service provided:

- Consultancy and recommendation design
- Monitoring and advice

Motivation and technical approach: The majority of the industries applied energy efficiency measures to the manufacturing process aiming to reduce their energy costs.

Most popular solution: the use of inverters (VSD systems)

Results and satisfaction:

5-10% reduction to the annual energy bill

57% satisfaction by the efficiency path chosen

Funding: Mainly by their own capitals (55%), loans (25%)

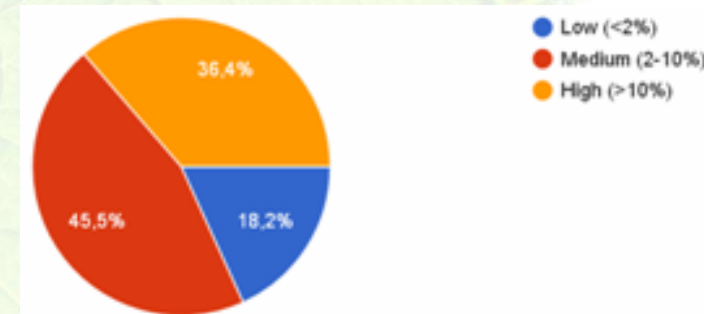
Barriers: Too long payback time, bureaucracy

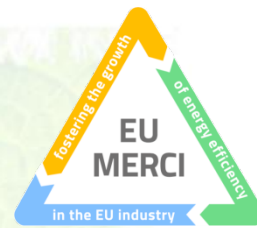
Most of the Association:

- Have 10-50 members
- Do not provide direct assistance in the implementation of EE measures.

Most of the associated companies:

- their energy cost of is the 2-10% of their turnover.
- have organized energy audits by experts,
- had participated to EE support schemes
- had implemented EE measures recently
- believe that applying EE measures increase the company's competitiveness





Motivation and technical approach: The majority of the industries applied energy efficiency measures to the manufacturing process aiming to reduce their energy costs.

Most popular solution: efficient combustion systems, use of high efficiency electric motors, energy management systems

Results and satisfaction:

5-10% reduction to the annual energy bill

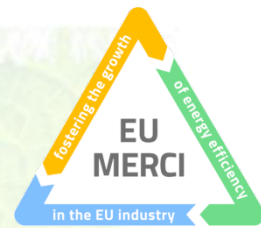
50% partially satisfied by the achievements, in respect to the expectancy

Funding: Mainly by their own capitals (55%), subsidies

Barriers: Too long payback time, bureaucracy

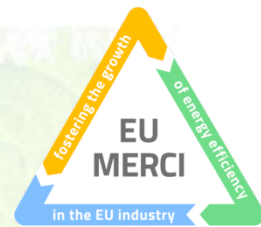


Similarities- conclusions



- ISO 50001, use energy performance indicators, have an energy manager
- All had the same motivation and technical approach
- All had similar results and satisfaction level
- Similar Funding
- Similar Barriers

THANK YOU !



For the full report, please visit the website: www.eumerci.eu

Similar surveys will be done locally in the countries for the capacity building action of EU-MERCI project

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