

EU MERCI

EU coordinated **ME**thods and procedures based on **Re**al **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



Final Conference

The EU-MERCI project: results and outcomes so far

Simone Maggiore (RSE – EU-MERCI Coordinator)

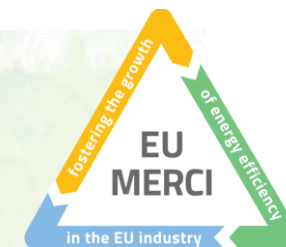
January, 23rd 2018



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



The EU-MERCI project



EU-MERCI - EU coordinated MEthods and procedures, based on Real Cases, for the effective implementation of policies and measures supporting Energy Efficiency in the Industry

Funded by Horizon 2020 – Nr 693845

Topic: EE-09-2015 - Empowering stakeholders to assist public authorities in the definition and implementation of sustainable energy policies and measures

Coordination and Support Action

Duration: 24 Months

Start Date: February, 1st 2016

Total Budget: 1,47 M€

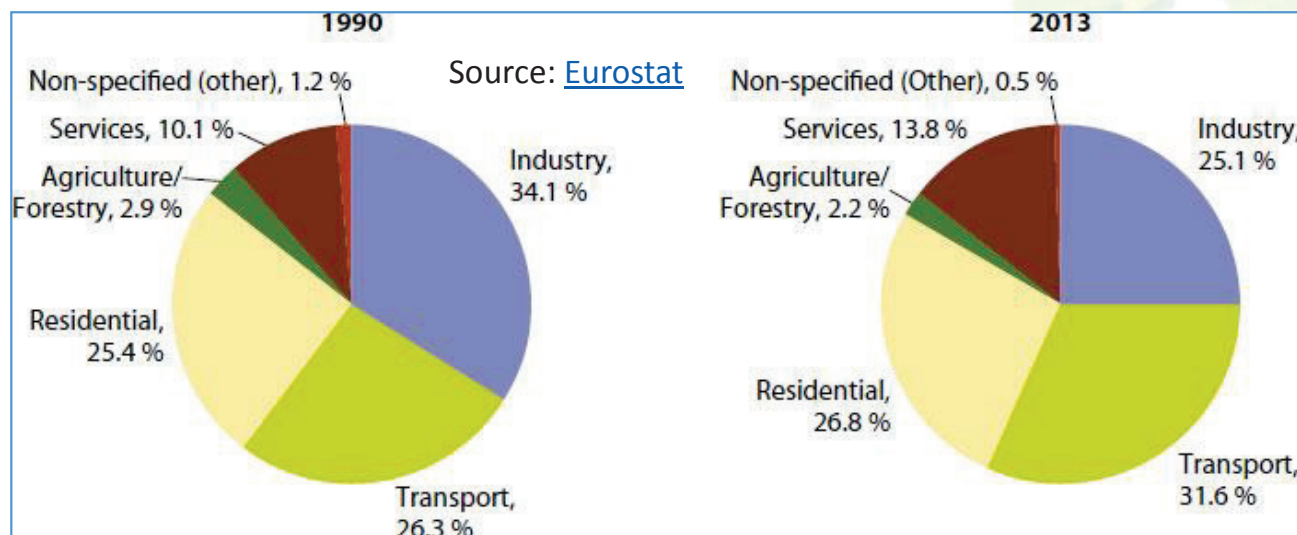
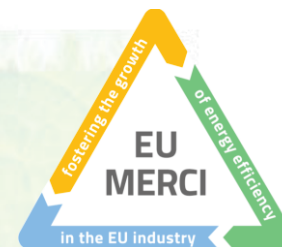
Coodinator: RSE SpA - Italy



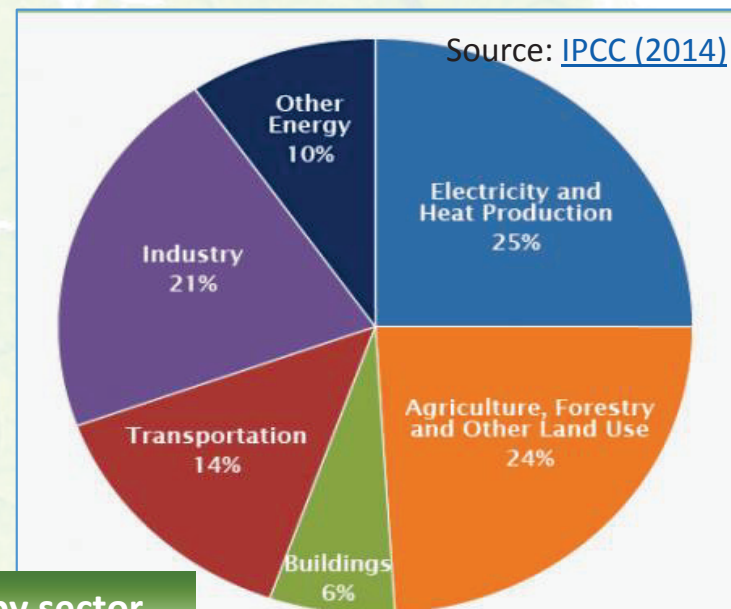
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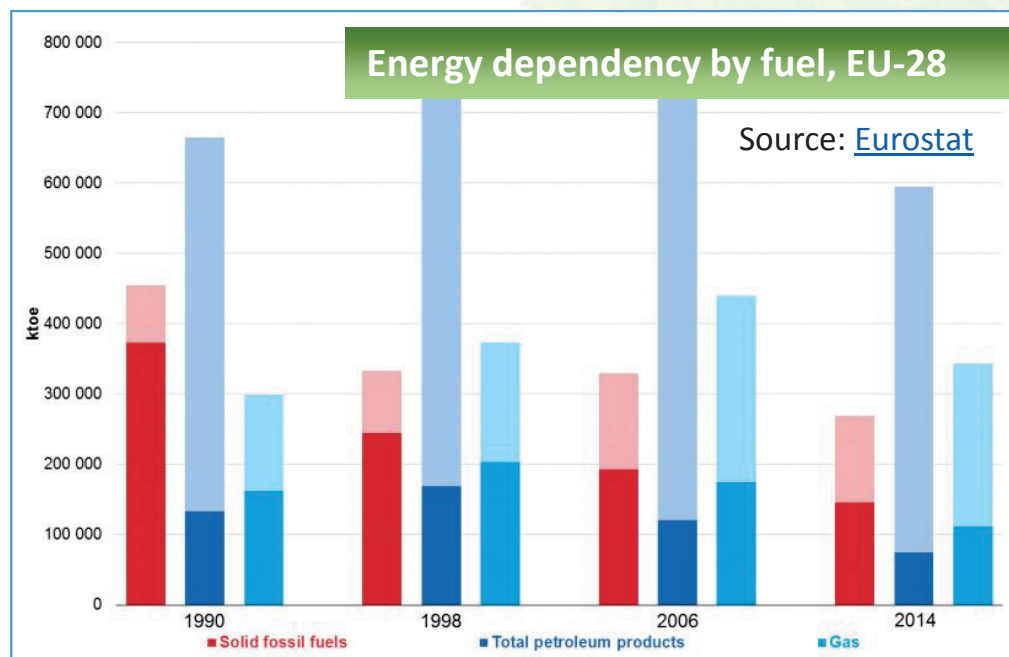
Drivers of the project: Rational use of energy



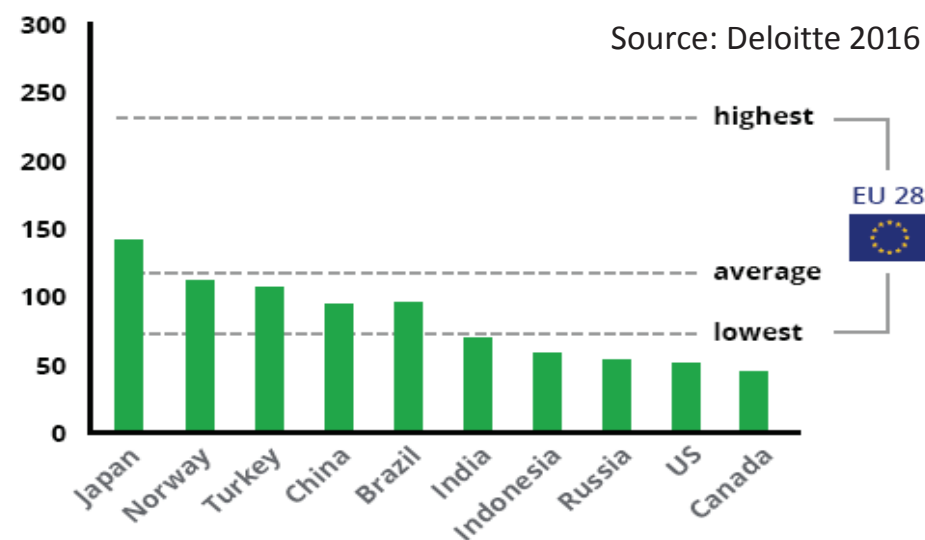
Final consumption by sector



Greenhouse gas emissions by sector



Current prices for electricity – Industrial consumers

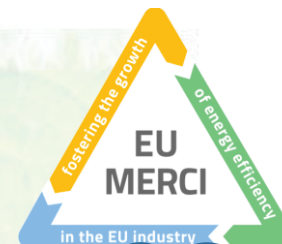


Drivers of the project: Exploiting the EE untapped potential

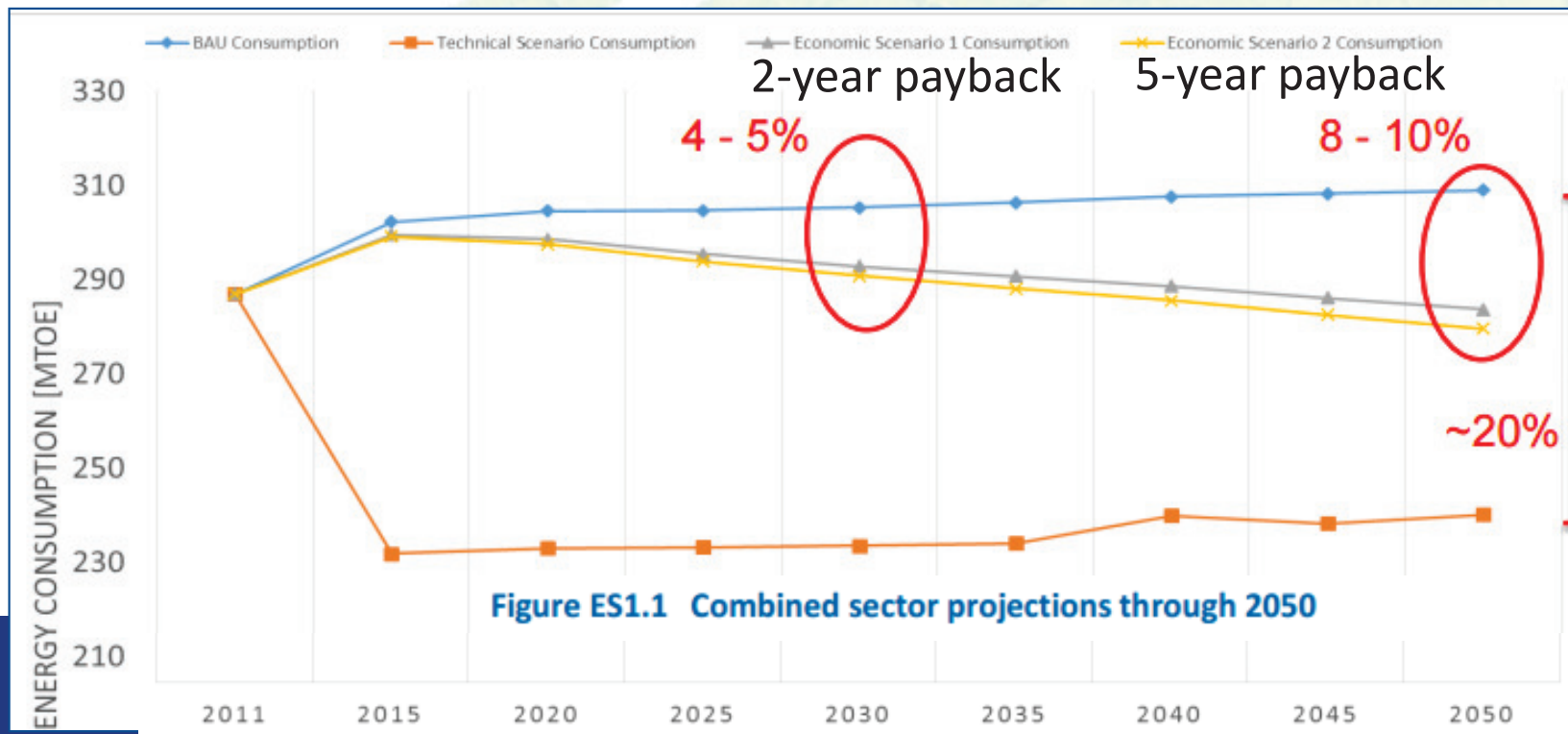
	2020	2030
Green House Gas Reduction	-20%	-40%
Share of Renewables	20%	27%
Energy Efficiency Improvements	20%	27 %

COM(2015) 572 final

Currently 17,6%



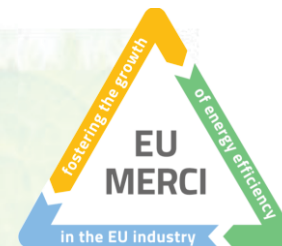
This target will be reviewed in 2020 having in mind a 30% target – EU Council



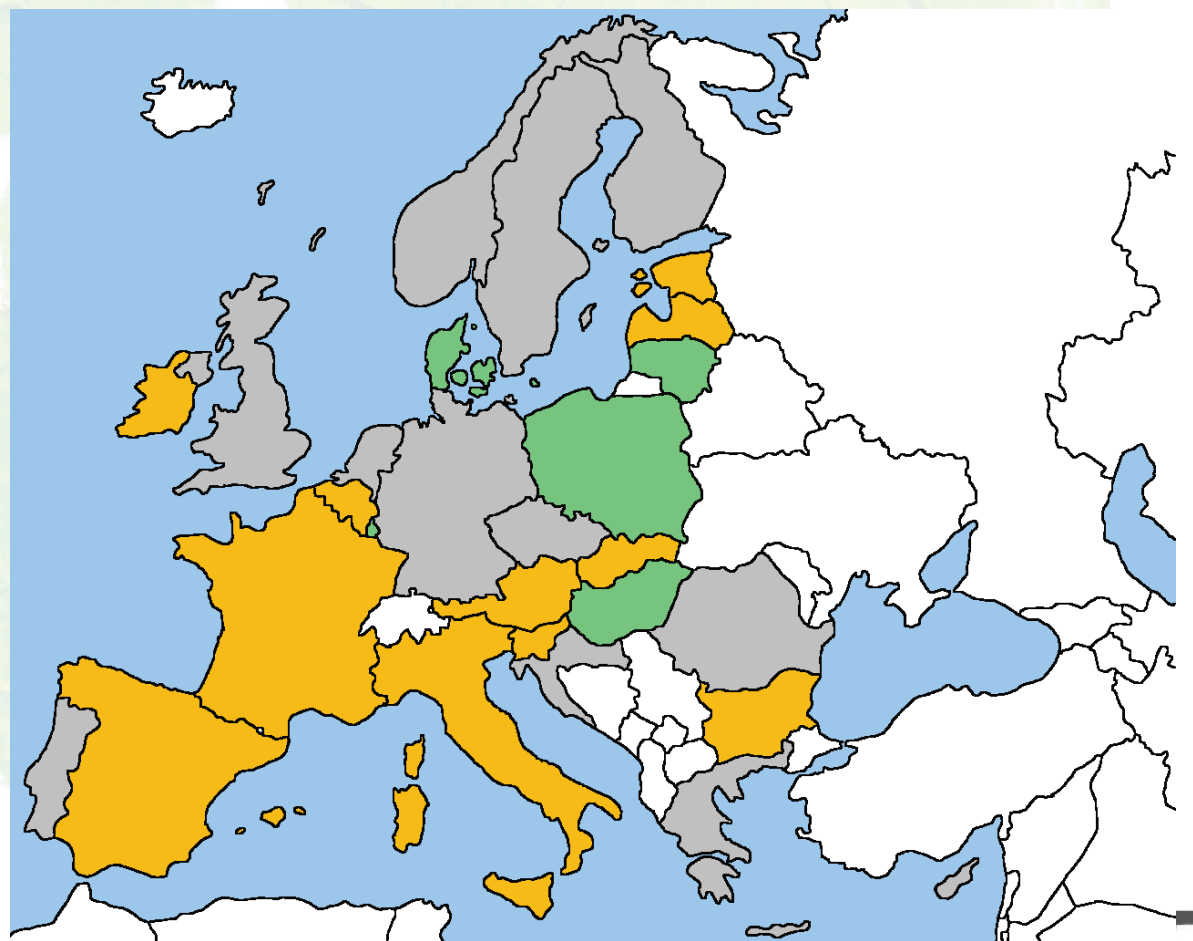
all technically feasible ESOs implemented

Source ICF 2015

Drivers of the project: Implementing Energy Efficiency Directive



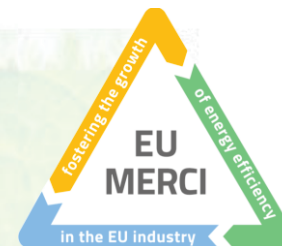
- 16 countries have implemented **industry-relevant EEO**,
 - of which most have combined this with alternative measures.
 - In 5 countries (Denmark, Hungary, Lithuania, Luxembourg and Poland) the EEO is the sole relevant EE measure for industry
 - 13 countries implement alternative measures only
- Different methodologies for savings calculation and monitoring



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Drivers of the project: Improve Policies and Implementation schemes



REPORT on the implementation report on the Energy Efficiency Directive 012/27/EU) - (2015/2232(INI)) – CIRE - June 2016

...to promote the **exchange of best practices across Member States** in order to speed up the achievement of targets and the **diffusion of innovative products and services**, and to promote **cross-country convergence in energy efficiency**

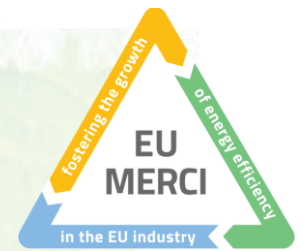
Stresses that better **harmonization of the methods of calculating additionality** (capacity to promote technologies that perform above the market average) and materiality (promoting action that would not necessarily have been taken) and for the **measurement and verification of energy savings** could contribute to the more effective implementation of Article 7



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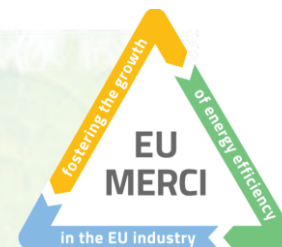
The EU-MERCI basic idea: a BOTTOM-UP analysis using in-field data



To take advantage from the in depth analysis of a huge number of energy efficiency applications and audits in industrial processes at EU level, and to statistically leverage on them, in order to give answers to questions like:

- What are the **most effective practices** that may improve the efficiency in the manufacturing processes?
- How to specifically implement them, **what technologies** or combination of them are deemed as the most appropriate in the particular considered process or industry sector?
- What is the **efficiency improvement attainable** with each action?
- Is there any correlation among **efficiency, redditivity, productivity, competitiveness**?
- What are the **associated costs and the economic profitability** of each action?
- How appropriate **current policies and measures** are, in order to foster the implementation of efficiency in the EU industry?
- How to measure and how to **monitor, register and report** the savings, as requested in some obligation mechanisms?

Concrete outcomes and Targets



- “Good Practices” for Energy Efficiency available on the **EIEEP Platform** (*European Industrial Energy Efficiency “good Practices” platform*)
- **Key Performance Indicators** for the evaluation of EE real projects according to different criteria (technical, environment, productivity and competitiveness, investment and payback, etc.)
- **Standardized methods** (including baselines, algorithms, monitoring requirements and procedures) for evaluation of efficiency
- **Supporting tools** to address, implement and report EE applications
- **Database** containing raw data on the EE projects analysed by EU-MERCI, available on the **EIEEP Platform**



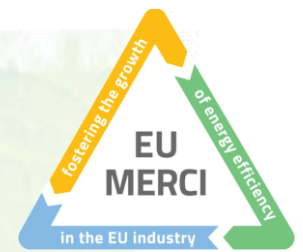
- Bottom-up analysis of **EESs effectiveness** in EU 28 MSs
- Reasoned **scenarios** of implementation of EE measures and **impact analysis**
- **Recommendations** tailored to different stakeholders to improve and finalize EE targeted mechanisms and to address policy and incentive



- **Improved and Extended capacity** in EU Ms to implement EEs and concrete EE projects => Uptake EE market and job creation



3 Strategic steps



- Extend the efficiency space
- Improve the knowledge



- Technical, Economical, Social KPIs
- Added Value for Efficiency



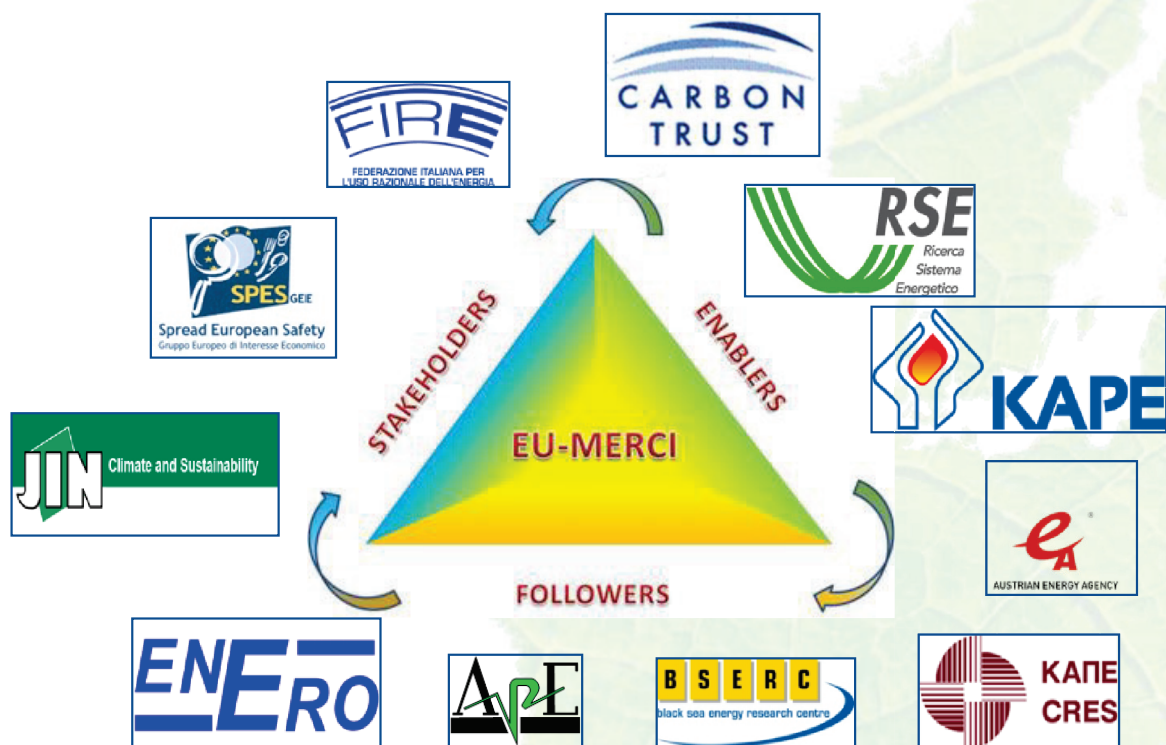
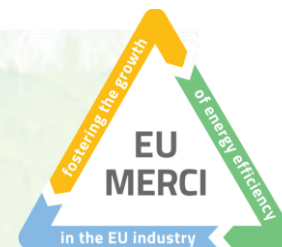
- Implementation specificities
- Market perception



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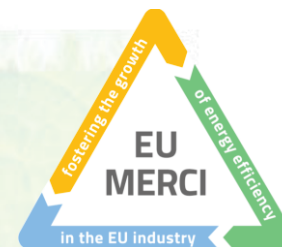
The EU-MERCI partnership



- EU-MERCI Partner
- Represented by SPES



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Contacts



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eumerci

Thanks!



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