



EUROPEAN ALLIANCE TO
SAVE ENERGY
Creating an Energy-Efficient Europe

ENERGY EFFICIENCY

-

KEY FOR THE DECARBONIZATION OF THE EUROPEAN ECONOMY

Raw Materials Week
Brussels
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MONICA FRASSONI, PRESIDENT
EUROPEAN ALLIANCE TO SAVE ENERGY (EU-ASE)

ABOUT US



EUROPEAN ALLIANCE TO
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Creating an Energy-Efficient Europe

ESTABLISHED	United Nations Climate Change Conference in December 2010
OUR VISION	Our vision is a future where energy efficiency and end-users empowerment are central to the EU energy system and are fundamental drivers for job creation, sustainable growth, competitiveness, energy productivity, innovation, energy security and decarbonisation.
OUR MISSION	<ul style="list-style-type: none">• Be the leading European business organization gathering and representing all industrial sectors engaged in energy efficiency;• Give visibility and enhance technological and market solutions for energy efficiency whose potential is today not fully exploited, aiming for a doubling of the rate of energy efficiency improvements to at least 3% per year;• Strengthen and enforce a well-functioning EU legislative and financial framework for energy efficiency and cost-effective decarbonisation, in line with the Paris agreement;• Promote a forward looking political agenda where energy efficiency will facilitate further decarbonisation efforts and the integration of renewable energy sources.
WHO WE ARE	Some of Europe's leading energy efficiency advocates: companies, politicians and campaigners. EU-ASE members have operations across the 28 Member States , employ over 340.000 people in Europe and have an aggregated annual turnover of €115 billion .

MEMBERS



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HONORARY MEMBERS



Bendt Bendtsen, MEP
(Denmark, EPP)



Bas Eickhout, MEP
(Netherlands, Greens)



Kathleen Van Brempt, MEP
(Belgium, S&D)



Peter Liese, MEP
(Germany, EPP)



Morten Helveg Petersen, MEP
(Denmark, ALDE)

MEMBERSHIP: Join the front line in the campaign for an energy efficient Europe

WHY IS ENERGY EFFICIENCY CRUCIAL?



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Because resources are limited	EE allows to do more with less energy	EE mitigates climate change
Resources should be used in the most efficient and consistent way as possible		IEA Model Scenario, to meet the objectives of Paris Agreement, 76% of emissions reductions in the EU will need to be achieved through energy Efficiency measures
According to the European Commission, for every 1% extra energy savings by 2030, EU gas imports fall by 4%, greenhouse gas emissions decrease by 0.7% and employment increases by 336,000 jobs. Every 1% improvement in energy efficiency means saving the equivalent of the emission of about 12 million cars		
On average 1€ invested in energy efficiency saves 3€ over the lifespan of a technology		

LONG-TERM DECARBONIZATION STRATEGY: WELL BELOW 1.5°C AND NET 0 BY 2050



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- **WHY WE NEED IT?** Paris Agreement calls upon all its signatories to communicate “long term low greenhouse gas emissions development strategies” by 2020. To EU Member States committed to submit its own long-term strategy well ahead of the 2020 deadline.
- The latest [UN science report](#) shows that upper temperature goal (2°C) of the Paris Agreement does **not represent a climate safe zone**.
- **Difference between** warming of 1.5°C and 2°C would be “substantial”:
 - **European Environment Agency** estimates those costs to be up to **€120 billion per year** under a 2°C warming scenario, and up to **€200 billion per year** under a 3°C warming scenario as a result of extreme weather conditions!

European Commission needs to ensure that the long-term strategy sets **Europe** on a pathway that delivers on **the 1.5°C objective** of the Paris Agreement, which must include **a net 0 emissions target by 2050 at the latest**. This highlights even further the **vital role of energy efficiency** -it will not be possible to get there unless actions and investments are stepped up!



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#EnergyEfficiencyFirst

**Business as usual
is not an option!**

**We call for
NET-ZERO emissions
by 2050
at the latest**

LONG-TERM DECARBONIZATION STRATEGY

EU-ASE POLICY ASKS:



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Recalling full benefits of energy efficiency for EU citizens

Economic growth and increased competitiveness, job creation, healthier population and ecosystems, cleaner air and water, poverty alleviation and strengthened energy security.

Pursuing the 1.5°C limit

Would prevent 20 trillion dollars of global economic losses, compared to a 2°C scenario

Net-zero emissions target by 2050 at the latest

To reach 1.5°C

Energy efficiency first principle

Systematically comparing the cost-effectiveness and the added value of energy efficiency measures and carbon neutral energy supply solutions

EE and RES to work in synergy

Phasing out fossil fuels

EE+RES+climate policies to avoid stranded assets

INTENSIVE INDUSTRY ENABLES DECARBONIZATION IN SECTORS WITH HIGH POTENTIAL

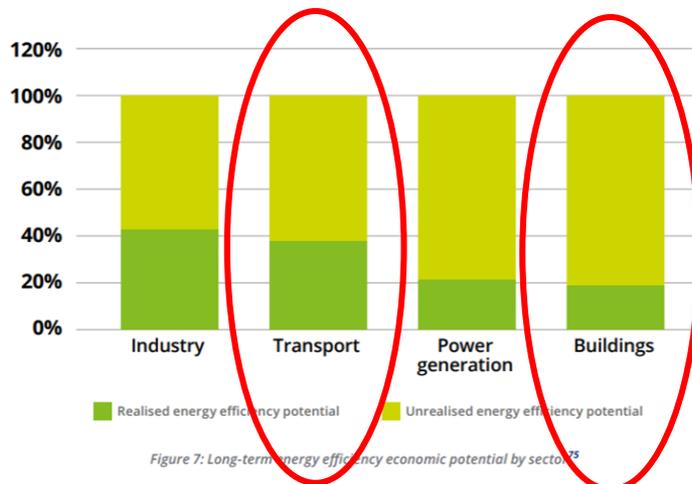


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- **ENERGY INTENSIVE INDUSTRIES (EIIs) INDISPENSIBLE TO LOW-CARBON SOLUTIONS:** enable the European economy and looking ahead, **are needed to enable a carbon neutral Europe**. EIIs enable almost all other sectors such as transport, buildings and constructions, defence, appliances, agriculture, etc.

Two-thirds of the economic potential to improve energy efficiency **remain untapped**:



INTENSIVE INDUSTRY TO UNTAP POTENTIAL IN:

□ TRANSPORT (examples)

A new car today is 22% more efficient than in 2007 and metals as well as light weight plastic materials help achieve this, together with high performance lubricants and fuels. Lime helps producing high strength steel for lighter cars and ferro-alloys are essentials to produce specialty steels. Concrete highways reduce vehicles fuel consumption by over 20%;

□ BUILDINGS (examples)

Insulation through the use of foam, stone or glass wool, coupled with high performance glazing in buildings, have the potential to enable more than 80% energy savings from buildings. Energy efficient LED bulbs use a combination of metals and plastics.

UNTAPPED POTENTIAL OF ENERGY INTENSIVE INDUSTRY



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❑ **THERE IS UNTAPPED SAVING POTENTIAL ALSO IN INTENSIVE INDUSTRY:** In the EU, an assessment by ICF for DG ENER showed an **economic potential** of reduction in final energy consumption for EIIs between **5.8% and 12.7%** compared to Business As Usual (BAU) energy consumption in 2050. The **technical potential** is considered to be larger with savings ranging between **17% and 26%**.

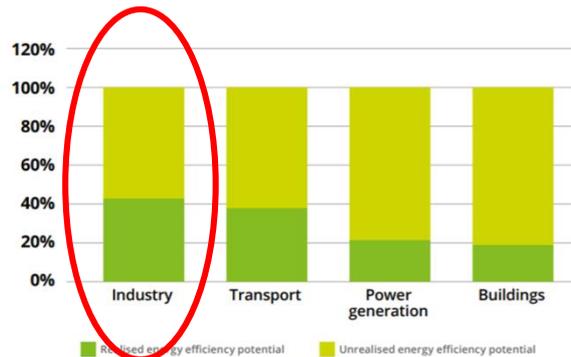


Figure 7: Long-term energy efficiency economic potential by sector⁷⁵

Sector	Economical potential (2 year payback - 5 year payback)	Technical potential (maximum energy saving potential)
Non-ferrous	12-12.7%	21%
Pulp and paper	5.8-7.1%	17%
Non-metallic minerals	6.6-7.2%	18%
Petroleum refining	8.5-9.5%	22.5%
Chemical and pharma	7.9-9.3%	22%
Iron and steel	8.6-9.4%	26%

SOLUTION: STRONG AND PROMPT IMPLEMENTATION OF NEW EU LEGAL ENERGY EFFICIENCY FRAMEWORK



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Energy Efficiency Directive

32.5% **headline target**

0.8% mandatory saving sub-target annual energy sales to final consumers (Art.7)

Upward review clause in 2023

EPBD

Long term renovation strategies

Energy efficient + decarbonised building stock **by 2050 (CO2 emissions reduced by 90%)**

Mid-term goals for **2030-2040**

Enhancing of smart technologies and technical building systems

Support deployment of EVs

Governance Regulation

Binding European template for National Energy and Climate Plans (NECPs) **by January 2020**

NECPs to support EC planning (EC provides recommendations on draft plans)

Energy Efficiency First principle

Europe moving towards enhanced energy efficiency does not mean a decrease in economic performance. Instead, it leads to more innovation that will foster an increasingly sustainable economic model.



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THANK YOU!

Monica Frassoni

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