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Block 1: EU Energy Policy and Objectives



Module 1.2. Energy Efficiency, Renewable Energy Sources and Greenhouse Gases goals



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The module presents the EU three key energy and climate targets for the years 2020, 2030 and 2050



- EU action for GHG emissions reduction and climate change
- EU 2020 energy and climate strategy
- EU 2030 energy and climate strategy
- EU 2050 low-carbon economy



The key energy and climate goals for reducing greenhouse gas emissions are set in:

- 2020 climate and energy strategy
- 2030 climate and energy strategy
- 2050 low-carbon economy



## Targets:

- 20 % improvement in Energy Efficiency
- 20 % of EU energy from Renewable Energy Sources
- 20 % reduction of Greenhouse Gas Emissions (from 1990 levels)



## The 2020 Energy Strategy priorities are: <sup>1</sup>

- making Europe more energy efficient by accelerating investment into efficient buildings, products, and transport. This includes measures such as energy labelling schemes, renovation of public buildings, and eco-design requirements for energy intensive products
- building a pan-European energy market by constructing the necessary transmission lines, pipelines, LNG terminals, and other infrastructure. Financial schemes may be provided to projects which have trouble obtaining public funding. By 2015, no EU country should be isolated from the internal market



## The 2020 Energy Strategy priorities are: <sup>1</sup>

- protecting consumer rights and achieving high safety standards in the energy sector. This includes allowing consumers to easily switch energy suppliers, monitor energy usage, and speedily resolve complaints
- implementing the Strategic Energy Technology Plan - the EU's strategy to accelerate the development and deployment of low carbon technologies such as solar power, smart grids, and carbon capture and storage
- pursuing good relations with the EU's external suppliers of energy and energy transit countries. Through the Energy Community, the EU also works to integrate neighboring countries into its internal energy market



## Targets:

- at least 32.5 % improvement in Energy Efficiency
- at least 32 % of EU energy from Renewable Energy Sources
- 40 % reduction of Greenhouse Gas Emissions (from 1990 levels)
- 15 % in reaching the electricity interconnection target compared to the target of 10 % by 2020





## Greenhouse Gases

The Union-wide binding target of **at least 40%** domestic reduction in economy-wide greenhouse gas emissions as compared to 1990 to be achieved by 2030.

## Renewable Energy

*Member States shall collectively ensure that the sum of their contributions adds up to at least 32% of energy produced from renewable energy sources in gross final energy consumption at Union level by 2030.*

## Energy Efficiency

The indicative national energy efficiency contribution to achieving the Union's energy efficiency targets of **at least 32.5%** in 2030 as referred to in Article 1(1) and Article 3(4) of Directive 2012/27/EU, based on either primary or final energy consumption, primary or final energy savings, or energy intensity.

Member States shall take into account that the **Union's 2020 energy consumption** has to be no more than **1483 Mtoe of primary energy** and/or no more than **1086 Mtoe of final energy**, the **Union's 2030 energy consumption** has to be no more than **1273 Mtoe of primary energy** and/or no more than **956 Mtoe of final energy** for the first ten-year period.



## Legislation

The targets are set in particular pieces of legislation:

- Greenhouse Gas Regulation
- Energy Efficiency Directive
- Renewable Energy Directive

While the Regulation has already entered into force,<sup>2</sup> the Directives are going to be officially published.



<sup>2</sup> <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32018R0842>

## Policies for 2030 strategy: <sup>3</sup>

- a reformed EU emissions trading scheme (ETS)
- new indicators for the competitiveness and security of the energy system, such as price differences with major trading partners, diversification of supply, and interconnection capacity between EU countries
- first ideas on a new governance system based on national plans for competitive, secure, and sustainable energy. These plans will follow a common EU approach. They will ensure stronger investor certainty, greater transparency, enhanced policy coherence and improved coordination across the EU



The EU long-term goal of reducing GHG emissions is set in the Energy Roadmap 2050 that puts forward:

- 80 % reduction of Greenhouse Gas Emissions (from 1990 levels)
- contribution of all the sectors
- significant investments to be made in future in new low-carbon technologies, energy efficiency, renewable energy, and grid infrastructure



# ENERGY AND CLIMATE GOALS

EU targets (compared to 1990 levels)	Energy Efficiency	Renewable Energy	GHG emissions reduction
2020	20 %	20 %	20 %
2030	32.5 %	32 %	40 %
2050	significant future investments		80 %



<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52014DC0015&from=EN>

[https://ec.europa.eu/clima/policies/strategies\\_en](https://ec.europa.eu/clima/policies/strategies_en)

<https://ec.europa.eu/energy/en/topics/energy-strategy-and-energy-union/2020-energy-strategy>

<http://data.consilium.europa.eu/doc/document/ST-10307-2018-ADD-2/en/pdf>

<https://ec.europa.eu/energy/en/topics/energy-strategy-and-energy-union/2030-energy-strategy>

[https://eur-lex.europa.eu/resource.html?uri=cellar:f0db7509-13e5-11e4-933d-01aa75ed71a1.0003.03/DOC\\_1&format=PDF](https://eur-lex.europa.eu/resource.html?uri=cellar:f0db7509-13e5-11e4-933d-01aa75ed71a1.0003.03/DOC_1&format=PDF)

[https://ec.europa.eu/energy/sites/ener/files/documents/2012\\_energy\\_roadmap\\_2050\\_en\\_0.pdf](https://ec.europa.eu/energy/sites/ener/files/documents/2012_energy_roadmap_2050_en_0.pdf)



# INFORMATION ON NATIONAL LEVEL IN PROJECT'S PARTNER REGIONS



ITALY

Emilia Romagna

Source of information	Link / PDF / Video document
Pacchetto per il clima e l'energia 2020 (it)	<a href="https://ec.europa.eu/clima/policies/strategies/2020_it">https://ec.europa.eu/clima/policies/strategies/2020_it</a>
Quadro per il clima e l'energia 2030 (it)	<a href="https://ec.europa.eu/clima/policies/strategies/2030_it">https://ec.europa.eu/clima/policies/strategies/2030_it</a>



# INFORMATION ON NATIONAL LEVEL IN PROJECT'S PARTNER REGIONS



POLAND

Lubelskie

Source of information	Link / PDF / Video document
ECOFYS 2020 Renewable Energy Target Realization Forecast for Poland final report (en) [pdf]	<a href="http://psew.pl/en/wp-content/uploads/sites/2/2017/04/2020-Renewable-Energy-Target-Realisation-Forecast-for-Poland.pdf">http://psew.pl/en/wp-content/uploads/sites/2/2017/04/2020-Renewable-Energy-Target-Realisation-Forecast-for-Poland.pdf</a>





# Thank you for your attention

