



ENERGY EFFICIENCY, DRIVING THE GREEN ECONOMY

What is Energy Efficiency?



The use of less energy to perform the same task or produce the same result.



The “first fuel” for the EU: competitive, cost effective to achieve, widely available and the main route to achieve net-zero emissions through decarbonisation.

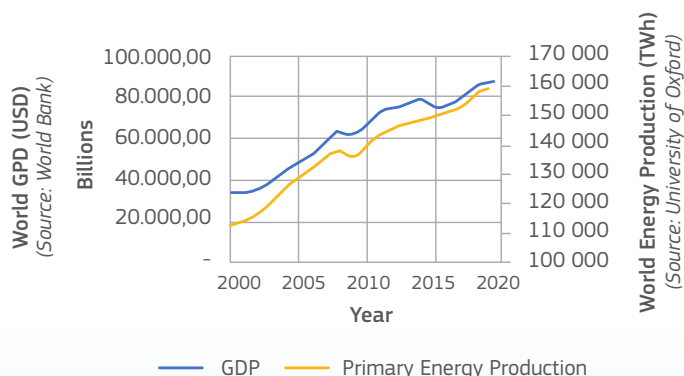


The quickest and cheapest way to address the current energy crisis, and reduce bills.

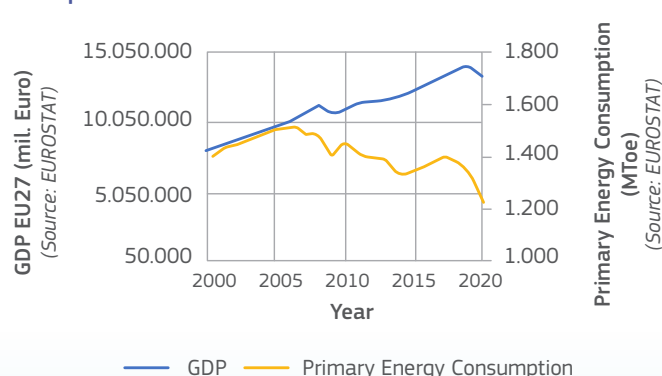
EFFECTS ON THE ECONOMY

We can support economic growth with decreasing amounts of energy. Energy efficiency reduces the amount of energy needed to deliver services, such as mobility, lighting, heating and cooling.

World



European Union

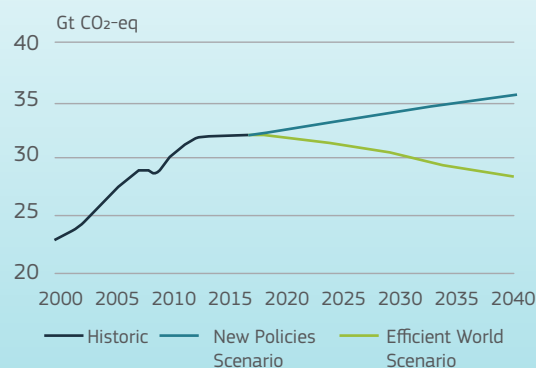
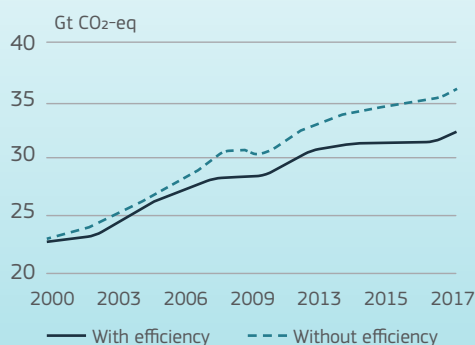


EFFECTS ON CLIMATE

The role of energy savings in reducing CO₂ emissions and fighting climate change is fundamental. Most energy efficiency gains also result in overall net cost savings to consumers.

Energy-related GHG emissions, with and without efficiency, 2000-17 (left) and in the NPS and EWS, 2000-40 (right)

Source: IEA (2019), *Multiple Benefits of Energy Efficiency*, IEA, Paris
<https://www.iea.org/reports/multiple-benefits-of-energy-efficiency>



DELIVERING THE EUROPEAN GREEN DEAL

- The **Green Deal** is the **EU's** strategy to become the first climate-neutral continent by 2050.
- Fit for 55: Reducing greenhouse gas emissions by at least **55%** by 2030
- REPowerEU : €300 billion by 2030 for saving energy | producing clean energy | diversifying EU's energy supplies
- Two lines of action:
 - Achieving immediate energy savings through voluntary choices
 - Accelerating and strengthening structural, mid- to long-term energy efficiency measures.

ADDRESSING THE BARRIERS TO ENERGY EFFICIENCY

There are several economic, institutional, and behavioural barriers to the implementation of energy efficiency that prevent the achievement of targets of energy efficiency policies and measures. Those include among others:

- increasing the magnitude of energy efficiency savings
- diversifying the sources of energy efficiency savings
- the integration of energy efficiency outcomes with a carbon reduction framework
- building the capacity and governance of energy efficiency agencies
- improving market incentives
- access to financing schemes
- availability of data on energy use, baselines, and systematic evaluations of programs, costs, and impacts and
- an international consensus on the most-effective policies and approaches for scaling up energy efficiency

ENERGY EFFICIENCY IN THE CONTEXT OF INTERNATIONAL PARTNERSHIPS

Energy Efficiency is an important component of the EU's external action.

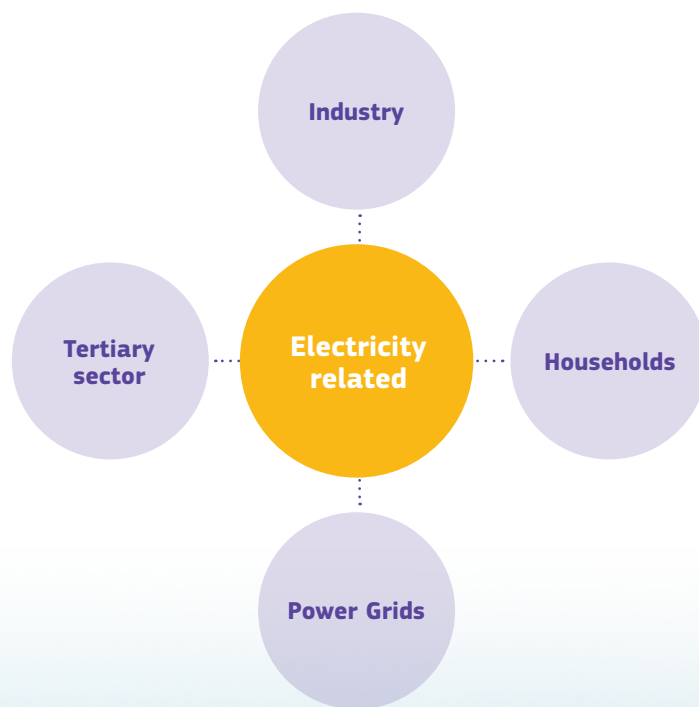
- Fast and low-cost investment with positive macroeconomic impacts, through GHG emissions reduction and job creation.
- Reduces the reliance on energy imports and the risks of supply interruptions.

The potential of energy efficiency across sectors:

- Electricity
- Buildings
- Transport / mobility
- Cross-sectoral (e.g., agriculture, water, food, sustainable cities, climate change, etc.,)

Key EU activities:

- Policy / Regulatory framework
- Equipment standards (e.g., MEPS, Labels, etc.)
- Financing mechanisms
- Projects' implementation



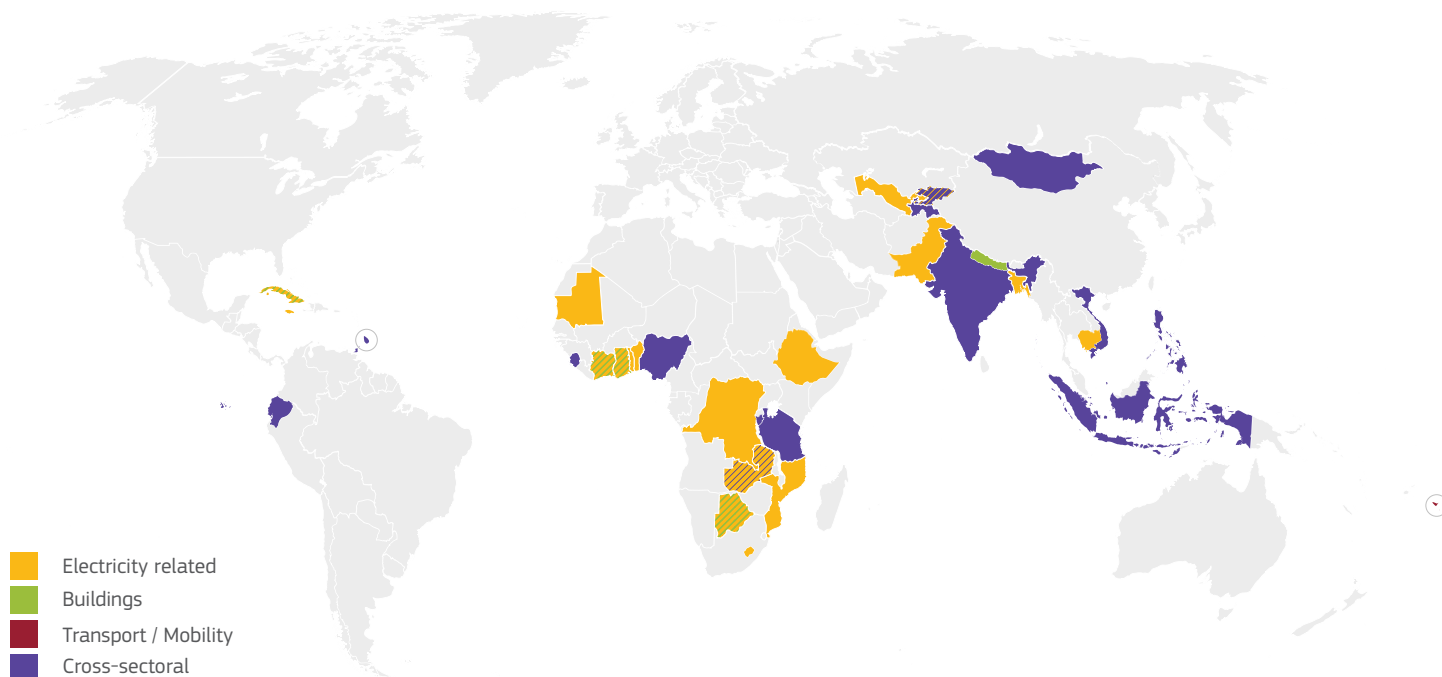
EU ACTIONS AT THE GLOBAL LEVEL

Acronym	Title	Focus	Status
Climate Investor One	Energy Efficiency Initiative	Financing Mechanisms	ON-GOING
DESIREE	Demand side management, Social Infrastructures, Renewables and Energy Efficiency ()	Financing Mechanisms	ON-GOING
DEF	Digital Energy Facility ()	Financing Mechanisms	ON-GOING
EFSD+	European Fund for Sustainable Development plus ()	Financing Mechanisms	ON-GOING
EU TAF	European Union's Technical Assistance Facility for Sustainable Energy	Policy and Regulatory framework	ON-GOING
Green Deal Knowledge Hub	Green Deal Knowledge Hub	Knowledge hub	UPCOMING
GEREEF	Global Energy Efficiency and Renewable Energy Fund ()	Financing Mechanisms	ON-GOING
SUNREF	SUNREF	Financing Mechanisms	ON-GOING

EU ACTIONS AT THE REGIONAL LEVEL

Region	Title / Country Focus / Sector Focus	Focus	Status
Africa and Latin America-Caribbean	Regional Energy Transition Outlooks (RETOs) for Africa and Latin America-Caribbean	Policy and regulatory framework	UPCOMING
Africa/ECCAS	Green transition	Policy and regulatory framework	UPCOMING
Africa/ECOWAS	Green transition	Policy and regulatory framework	UPCOMING
African Union	Specific Support Study in support of the Continental Power System Masterplan (CMP) – Energy Efficiency	Policy and regulatory framework	ON-GOING
African Union	Support to AUC for the implementation, coordination, and monitoring of the Electricity Harmonization Regulatory Strategy and Action Plan	Policy and regulatory framework	ON-GOING
Latin America - Caribbean	Euroclima Caribbean	Policy and regulatory framework	UPCOMING
GEREEF	Global Energy Efficiency and Renewable Energy Fund ()	Financing Mechanisms	ON-GOING
SUNREF	SUNREF	Financing Mechanisms	ON-GOING

EU ACTIONS AT THE NATIONAL LEVEL



BANGLADESH	Partnership for Green Energy Transition in Bangladesh	UPCOMING
BARBADOS	Delegation Agreement-Sustainable Energy Management Program (Smart Fund II) CIF Barbados	ON-GOING
BENIN	Green economic growth	UPCOMING
BOTSWANA	Green transformation	UPCOMING
BURUNDI	Inclusive, green, sustainable and job-creating growth	UPCOMING
CAMBODIA	Promotion of sustainable energy practices in the garment sector in Cambodia	ON-GOING
CONGO	Sustainable management of natural resources	UPCOMING
CUBA	Support for Energy Efficiency (EE) and the promotion of Renewable Energy Sources based on Local Development	ON-GOING
ECUADOR	Circular Economy, a sustainable, renewable and efficient model in Ecuador	ON-GOING
ETHIOPIA	Green deal	UPCOMING
GHANA	Green, resilient & inclusive growth	UPCOMING
INDIA	Climate, Energy, Trade and Innovation Support in India	UPCOMING
INDONESIA	SDG Indonesia One	ON-GOING
IVORY COAST	Promote sustainable and inclusive growth	UPCOMING
JAMAICA	Energy Management and Efficiency Programme which includes the retrofit of 80 health, education, and public agencies.	ON-GOING
KYRGYZSTAN	Green and climate resilient economy	UPCOMING
KYRGYZSTAN	Promoting Energy Efficiency and Renewable Energy production in the Community-Based Tourism Sector in Central Asia	ON-GOING
LESOTHO	Green and resilient economy	UPCOMING
MAURITANIA	Transitioning to a Green and Blue Economy	UPCOMING

MONGOLIA	Switch-off Air Pollution in Mongolia's cities	ON-GOING
MOZAMBIQUE	Growing Green and support the planning and building of low-carbon and climate-resilient infrastructure	UPCOMING
NEPAL	Inclusive Green Growth	UPCOMING
NEPAL	BUILDING Energy Efficiency in Nepal (BEEN)	ON-GOING
NIGERIA	Green and digital economy: Expand renewable and smart energy and promote circular economy	UPCOMING
PAKISTAN	Green inclusive growth with ENERGY Plus	UPCOMING
PHILIPPINES	Green, Resilient Economy and Green Jobs	UPCOMING
SIERRA LEONE	Green economy/energy	UPCOMING
TAJIKISTAN	Inclusive, green and digital economy	UPCOMING
TANZANIA	Energy Efficiency Action plan	ON-GOING
TANZANIA	Green deals, human capital and employment, governance	UPCOMING
TOGO	Support human development and socio-economic inclusion	UPCOMING
TONGA	Climate Action and Environmental Sustainability	UPCOMING
TRINIDAD AND TOBAGO	Support to the implementation of Trinidad and Tobago's Nationally Determined Contribution"	ON-GOING
TRINIDAD AND TOBAGO	Energy Conservation Awareness Programme for 21 Government Ministries	ON-GOING
UZBEKISTAN	Energy Efficiency Framework Loan	ON-GOING
VIETNAM	EU - Viet Nam Sustainable Energy Transition Facility (the EVSET Facility)	ON-GOING
VIETNAM	Sector Reform Performance Contract of the EU - Viet Nam Sustainable Energy Transition Programme	ON-GOING
ZAMBIA	Capacity Building for RE and EE	ON-GOING
ZAMBIA	Green partnerships for sustainable recovery, growth	UPCOMING