

Energy Efficiency: a sustainable solution for job growth and economic success

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Kyoto Club is a **non-profit organisation** founded in February 1999. Its members are business companies, associations and local municipalities and governments engaged in reaching the greenhouse gas reduction targets set by the *Kyoto Protocol*, by the EU ones for 2030 and by the December 2015 *Paris Agreement*.



To reach its goals and to support bio, green and circular economy patterns, *Kyoto Club* promotes **awareness-raising, initiatives, information and training** to foster **energy efficiency, renewable energy sources, waste reduction and recycling** and **sustainable agriculture and mobility**.

Towards Italian, EU and *UNFCCC* public decision-makers, we put forward and advocate for **policy proposals** to make institutional decisions more and more environment and climate friendly.



Kyoto Club is Member of



And has observatory status with the UNFCCC



United Nations
Framework Convention on
Climate Change

Wonder what **ENERGY EFFICIENCY** can do for **EUROPEANS**?

DELIVER GHG EMISSIONS REDUCTIONS AND BETTER AIR QUALITY

According to the International Energy Agency (IEA), 76% of the European Greenhouse gas emissions (GHG) reductions required to keep temperature increases below 1.5°C and combat the devastating effect of climate change must come from energy efficiency.

With Energy Efficiency and Renewable Energy working together, it is possible to bring about more than 90% of the energy-related CO₂ emission reductions needed to decarbonize our economy and at the same time addressing the concerning issue of air quality in many parts of the EU.

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GENERATE ENERGY AND COST SAVINGS

Between 2000-2016, energy efficiency improvements across the EU have delivered 21% energy savings, making the energy saved the biggest energy resource. Much more is possible and needed. For example, in areas with high potential – such as buildings - energy efficiency improvements can reduce current gas consumption by 70% within two decades.

CONTRIBUTE TO A HEALTHIER POPULATION

The multiple benefits of energy efficiency include healthier population and ecosystems, cleaner air, and smarter water management.

In buildings, figures from the Energy Poverty European Observatory show that, in 2015, 15.2% of European population lived in residential housing with leaking roofs, damp walls, floors or foundation, and rot in window frames or floors. Energy efficiency improvements provide building occupants with improved health by reducing illnesses caused by a poor indoor climate and higher levels of comfort and wellbeing.

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ALLEVIATE ENERGY POVERTY

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ENSURE A JUST TRANSITION

The transition to a decarbonized energy system must consider alternative social and economic developments for regions highly dependent on fossil fuels. Energy efficiency improvements create sustainable economic growth, stimulate innovation, investments and competitiveness, and create local jobs, while reducing energy waste and associated costs.

ENGAGE CITIZENS

We all have a role to play in the transition to a climate neutral Europe. In a smart, energy efficient system, people do not only consume, but can also produce electricity. By using energy efficient technologies and a flexible building stock, energy end-users can monitor their consumption and can optimise and monetise their resources in a peer-to-peer marketplace.

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ENABLE ELECTRIC MOBILITY

Transport is a major component of energy demand and is currently a major contributor to greenhouse gas emissions. Electric mobility could be part of the solution, but it is expected that it will result in increased electricity demand. Energy efficiency is thus necessary to reduce demand and make it possible to power millions of electric vehicles without the need to increase generation capacity.

INCREASE EU ENERGY SECURITY

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Wonder what **YOU** can do for **ENERGY EFFICIENCY**?

- Become an energy efficiency champion and make the **Energy Efficiency First** principle a cornerstone of Europe transformation towards a smart, energy efficient, decentralized and fossil-free energy system. We are already planning investments and growth in a net zero perspective ; now is up to you to take the lead and make the energy transition THE political priority of your action.
- Support the increase of the current 32.5% energy efficiency 2030 target to a **cost-effective 40%**, necessary to achieve **climate neutrality by 2050** and fully unleash energy efficiency multiple and collective benefits for the good of Europe's citizens, the economy and the environment.
- Back deep staged renovation of the European building stock by calling to **increase the retrofit rate from current 1% to at least 3% per year.**
- Promote the full understanding of the **energy-water nexus** across policies and support **smart water management** to save energy across sectors.

Wonder what **YOU** can do for **ENERGY EFFICIENCY**?

- Facilitate connections with your government and your peers at national level to support the ambitious implementation of the existing energy efficiency framework. The establishment of **a Standing Committee on the European energy transition** would create the political space for dialogue between national and EU-level decision-makers and tackle implementation challenges, advance initiatives, and facilitate partnerships.
- Promote **an EU-wide shadow price on carbon emissions which would allow a** more accurate consideration of the true cost of carbon emissions to guide long-live infrastructure (e.g. buildings, highways and grids) planning and investment decisions.

Wonder what **YOU** can do for **ENERGY EFFICIENCY**?

- Support a **complete public divestment** in new fossil fuel-based infrastructures and help to operationalize the Energy Efficiency First principle through its **systematic integration in all cost-benefit analysis of EU financial instruments** (Structural Funds, InvestEU) **and banks** (European Investment Bank and European Bank for Reconstruction and Development) in order to prioritize investments in energy efficiency at all stages of the energy chain.
- Support the development and European uptake **of innovative financial schemes for energy efficiency - such as Energy Performance Contracting.**
- Ensure that the revision of the **EU Energy and Environment State Aid Guidelines** enables energy efficiency improvements required to drive Europe's energy transition.

Thank you for your attention!

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