



SUSTAINABLE
ENERGY FOR ALL



GLOBAL ENERGY EFFICIENCY ACCELERATOR PLATFORM

Targeted energy efficiency measures can contribute to deliver 50 percent of the emission reductions required to put the world on a 2 C° pathway by 2020 according to the International Energy Agency.

The SE4All Energy Efficiency Accelerator Platform is a public-private partnership programme to scale up energy efficiency policy, action and investment, with the aim of doubling the rate of improvement in energy efficiency worldwide by 2030.

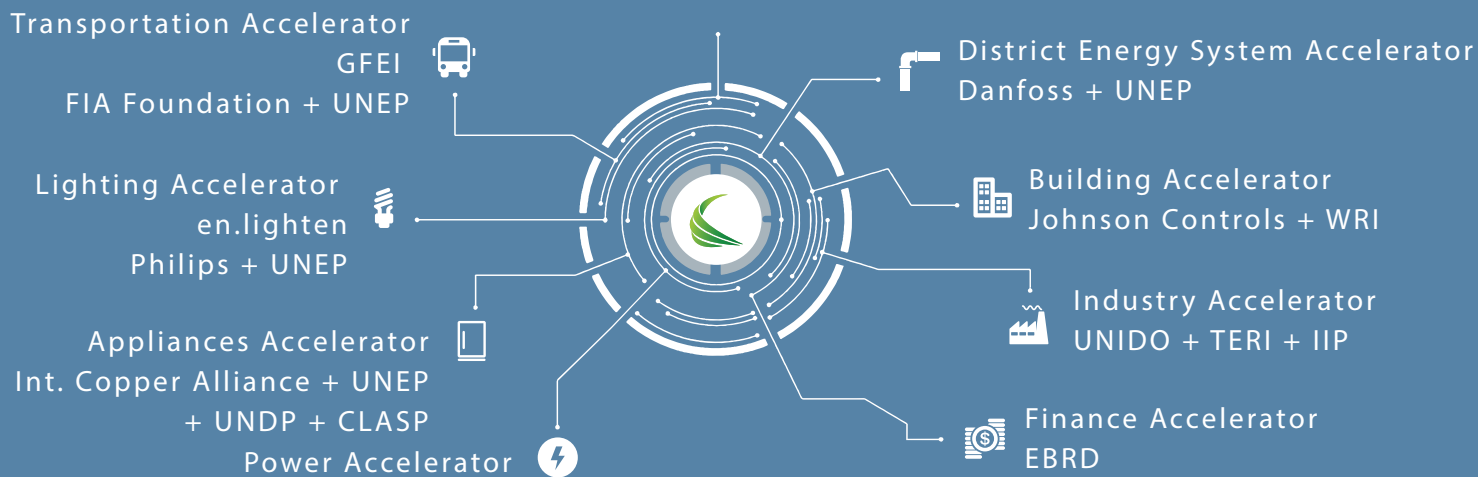
WHY ENERGY EFFICIENCY?

Rendering energy use in a more efficient way is one of the world's most crucial contributions to mitigate climate change. By reducing energy consumption, efficiency makes existing energy supply extend further, thus improving the productivity of the world's energy. With enhanced efficiency, air quality is improved, pollution levels are reduced, and the economy benefits. In addition, the implementation of energy efficiency policies and the production and installation of efficient technologies create local jobs and a cleaner, healthier planet.

WHAT IS THE OFFER?

The Accelerator Platform provides governments with the means for engaging with a variety of stakeholders whose knowledge of technologies, markets, financial instruments and implementation approaches can support scaling up of energy efficiency actions in different sectors. The accelerators work with stakeholders that are active at both global and local levels.

ACCELERATOR SECTORS AND CO-CONVENERS



COMMON MISSION STATEMENT

- Accelerate action and commitments made by national and sub-national leaders at the country, city, state, regional and sectoral level.
- Access and analyse policy options and provide input on how to utilize resources available in cities and national governments.
- Review and apply a variety of resources including: existing policy and action roadmaps, technical assessments, best-in-class toolkits, training materials, databases and technical analysis.
- Scale-up and facilitate energy efficiency investments by providing match-making services between technology and finance providers and country, city, state, region or sector level actors and support the mobilization of resources.
- Create a global network to exchange know-how, lessons learnt and best practices in energy efficiency.

LEARN MORE

To learn more about the Accelerator, please visit our website:

<http://www.se4all.org/energyefficiencyplatform/>



IS THE PLATFORM INTERESTING FOR ME?

- YES, if you would like to speed up your jurisdiction's policies and activities on energy efficiency and would like to engage with expert organisations and the private sector to develop energy solutions.
- YES, if you are a company providing energy efficient technologies or expertise and would like to broaden your partnerships and engage with others to develop scalable solutions.
- YES, if you are an investor looking to finance energy efficiency projects designed, supported and informed by world renowned energy efficiency, operational, finance and management experts.
- YES, if you would like to contribute to or be part of the Energy Efficiency Accelerators because you understand that energy efficiency solves many of the planet's most pressing problems.

HOW TO JOIN?

Becoming a partner is simple. Visit our website and follow the online procedures:

<http://www.se4all.org/energyefficiencyplatform/>



DID YOU KNOW?

VEHICLE FUEL EFFICIENCY

According to the International Energy Agency (IEA), the transport sector has the highest growth of CO₂ emission of any sector. The Global Fuel Economy Initiative (GFEI) has the primary aim to reduce emissions and at least double the efficiency of the global vehicle fleet from an average of 8l/100 km in 2005 to 4l/100 km by 2050. It is estimated that CO₂ savings would exceed

1 Gt CO₂ annually by 2025 going to
2 Gt CO₂
annually by 2050



BUILDINGS

Widespread implementation of progressive policies that encourage the use of best available technologies, low-energy building design and energy efficiency renovation can deliver



25-50%
reductions in energy demand from new and existing buildings.

LIGHTING

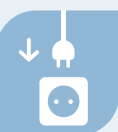
A global transition to widely available efficient solutions in all lighting sectors (residential, commercial/industrial and outdoor) by 2030 could reduce electricity demand for lighting by more than 32% and avoid



3.5 Gt of CO₂

DISTRICT ENERGY

A transition to modern district energy could contribute to 58% of the required energy sector emissions reductions by 2050, would reduce primary energy consumption in heating and cooling by up to 50% and enable cities and countries to achieve 100% renewable energy or carbon neutral targets.



INDUSTRY

Widespread adoption of energy efficiency measures could reduce industrial energy use by over

25%

That potential is significant: it represents 3.92 Gt CO₂ – an 8% reduction in global energy use and a 12.4% reduction in global CO₂ emissions.



APPLIANCES AND EQUIPMENT

High impact appliances and equipment, such as residential refrigerators, air conditioners, electric motors, distribution transformers will account for close to 60 % of global electricity consumption by 2030. A global transition to efficient appliances and equipment would save the equivalent of 8 percent of today's global electricity use



the equivalent of
350
large power plants

MILWAUKEE, US

BUILDING ACCELERATOR

City of Milwaukee Commits to Accelerating Building Energy Efficiency

On February 11th, Mayor Tom Barrett addressed a group of more than 100 downtown real estate owners and managers and shared the city's commitment to improving energy efficiency in existing buildings. Representatives of the city's environmental sustainability department and other community partners shared details on opportunities to drive efficiency improvements including a voluntary energy benchmarking program and funding for existing building retrofits through a new third-party Property Assessed Clean Energy (PACE) financing program.

The City of Milwaukee participates in the U.S. Department of Energy Better Buildings Challenge in which organizations commit to reduce their portfolio-wide energy use by 20 percent by 2020 while showcasing the solutions they use and the results they achieve. Many of the largest buildings in downtown Milwaukee are submitting their energy benchmarking data as part of the Challenge.

PARIS, FRANCE

DISTRICT ENERGY SYSTEM ACCELERATOR

Affordable, renewable heat and Europe's first and largest district cooling system

Paris developed district heating in 1927 to reduce air pollution from coal consumption. Today district heating expansion is increasing renewables in heat to over 50% and delivering affordable heat to social housing. Cogeneration plants and waste incinerators heat the equivalent of 500,000 households through 475km of network with the waste incinerators mitigating 800,000t CO2 per year. Paris has also developed Europe's first and largest district cooling network, improving energy efficiency in cooling by 50% and innovatively using the River Seine to cool buildings. Paris is a champion city of the Global District Energy in Cities Initiative and can share its expertise and experiences including a best practise public-private partnership model for district heating. This model allows Paris to control heat tariffs and the renewables share whilst receiving over €28 million in annual benefits and payments.

JIANGSU AND SHANGHAI, CHINA

INDUSTRY ACCELERATOR

China Motor System Energy Conservation Program

The China Motor Systems Energy Conservation Program has been successful in providing a strong foundation for building a national motor systems program in China. The program demonstrated an effective strategy of technology transfer in which Chinese motor system experts and factory enterprise personnel are trained by international experts and enabled to provide training and assessment services to factory enterprises in China. The UNIDO program trained 22 engineers in system optimization techniques in Jiangsu and Shanghai provinces. Within two years after completing training, these experts conducted 38 industrial plant assessments and identified nearly 40 million kWh in energy savings.

EU INTERNAL MARKET

APPLIANCE ACCELERATOR

Minimum Energy performance standards

In 2014 the EU adopted a regulation that requires new power transformers, put into service in the EU internal market from 01 July 2015, to fulfill minimum energy performance standards. The Commission estimates the resulting energy savings to be 16 TWh/year from 2020 onward, equivalent to saving half of the annual electricity consumption of Denmark. This equates to 3.7 million tonnes/year of avoided CO2 emissions. The Copper Alliance's Promotion Partnership for High Efficiency Transformers (PROPHET) report is used by regulators worldwide as the basis to stimulate the setting of standards, and was critical to this EC regulation. Power transformers are generally very efficient devices, but small, cost-effective improvements in their efficiency can yield substantial energy savings, especially given their typical service life of 30 years or more. The number of installed transformers in Europe is expected to increase by 30 percent to almost 4.7 million by 2025.

ILEMBE, SOUTH AFRICA

LIGHTING ACCELERATOR

Royal Philips Electronics Solar LED home lighting in South Africa

Royal Philips Electronics has supplied solar-driven LED home lighting and sustainable cooking stoves for 200 households across the South African Ilembe district showcasing how its low-carbon solutions can improve the lives of people living in rural communities without access to the electricity grid. The home lighting system is a complete LED lighting kit. A full day's charging in the sun (eight hours) will provide enough light for a whole evening. The benefits are considerable. It is cheaper than kerosene lamps and provides better light. It is also safer and better for people's health as toxic smoke is avoided.

PHILIPPINES

VEHICLE FUEL EFFICIENCY ACCELERATOR

Philippines Light-Duty Vehicle Fleet

The Philippines do not have an auto fuel economy standard in place, but the country's energy efficiency plans and efforts acknowledge the importance of transport in energy consumption and foresee the development and implementation of fuel economy labelling for new cars, in addition to expanding the use of alternative fuels and vehicles, and improved mass transit systems (Tamang 2011). Because HDV's are a significant part of the overall vehicle kilometres travelled in ASEAN countries, including the Philippines, and therefore have a large impact on CO2 and conventional emissions, future fuel economy policies should cover both light and heavy duty vehicles.



THE OFFER PHASED ENGAGEMENT

For more information on the Global Energy Efficiency Accelerator Platform please contact:

Luis Gomez-Echeverri
SE4All Senior Advisor
l.gomez-echeverri@se4all.org
Tel: + 43 (1) 26060 883408

Thibaud Voita
Energy Efficiency Officer
t.voita@se4all.org
Tel: + 43 (1) 26060 83417

Monika Froehler
Programme Officer and Communication
m.froehler@se4all.org
Tel: +43 (1) 26060 83409



www.se4all.org/energyefficiencyplatform/

EXPRESSION OF INTEREST

If interested, a jurisdiction initiates its expression of interest in joining the platform by signing a "letter of intent" to the Sustainable Energy for All Energy Efficiency Team energyefficiency@se4all.org. The SE4All team engages to organize the subsequent steps:

ASSESSMENT

The SE4All team engages with the interested jurisdiction by involving network partners

- To undertake a high-level assessment, using available tools and data sources, of local opportunities to improve energy efficiency in various sectors by introducing different policies and programs.
- To organize a tailored presentation of best practices (policies, programs, metrics and technical solutions) in sectors of interest of the jurisdiction, selected from the Platform menu of options, that address local opportunities in an integrated manner.
- To formulate recommendations for the jurisdiction pursuing specific programs/projects along with referrals for technical support, financial assistance and local capacity building from SE4All partner organizations.

DEVELOPMENT

The SE4All team and the hub at the Copenhagen Centre on Energy Efficiency (C2E2) engage with partners and the interested jurisdiction on

- Organization and facilitation of multi-stakeholder workshops focused on specific sectors and areas of interest in partnership with local community organizations.
- Assistance in preparing a preliminary plan of action for developing and implementing energy efficiency programs or projects and proposals for technical and financial assistance from SE4All partner organizations.

IMPLEMENTATION

- Access to state-of-the-art technical solutions and best practice policy, program and project expertise through the Energy Efficiency Accelerator Platform partners.

IMPROVEMENT

- Assistance in establishing an energy efficiency performance baseline and tracking annual performance improvements.
- Participation in peer-to-peer, best practice sharing events through virtual meetings and in-person summits.

New partners join the platform regularly, please check online for updates.

