

Interview your neighbour...



Tell me about **one** energy efficiency programme/policy/mechanism in **your country** and explain **how** it works.

What are some of the **impacts** that materialise **beyond energy savings**?

Time for polling! → IEA Events App







Schedule





Maps





Attendees =





Stay connected



Search



How do you analyse and define the impacts of energy efficiency (e.g. air quality, employment, etc.)?



Select three (3) benefits that are important in your country



Multiple Benefits of Energy Efficiency Strategies to support energy efficiency goals

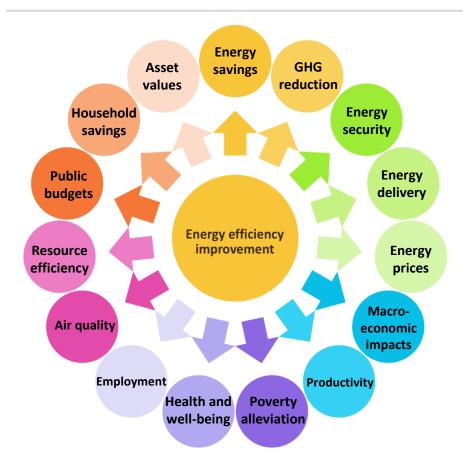
Ailin Huang and Luis Lopez, IEA Paris, 20 May 2019



#energyefficientworld

Multiple Benefits of Energy Efficiency





Energy Efficient Prosperity

Energy efficiency as a means to support economic and social development, while ensuring environmental sustainability

Reduced air pollution

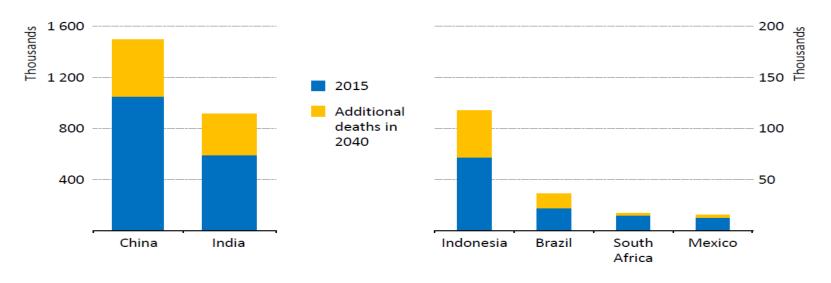




Improved health

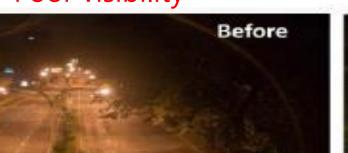


- Air pollution is the fourth largest risk to human health
- 3.5 million premature deaths are linked to energy poverty due to the use of biomass for cooking and kerosene for lighting
- 3 million premature deaths are linked to outdoor air pollution, mostly in cities

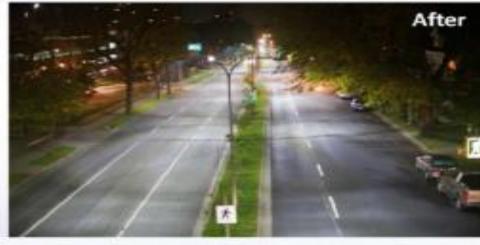




Poor visibility



Better light quality



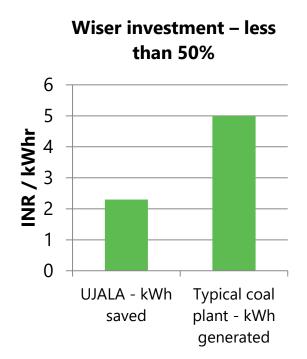
More energy use

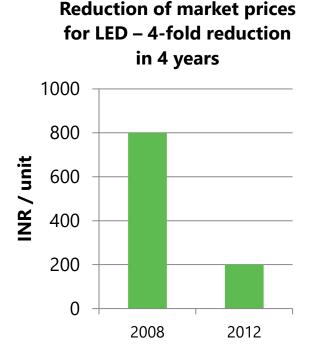
Less energy use

Improved lighting has improved safety

Impact on jobs and emissions of India's UJALA programme







Jobs:

Employment for 35,000 people

Avoided Emissions:

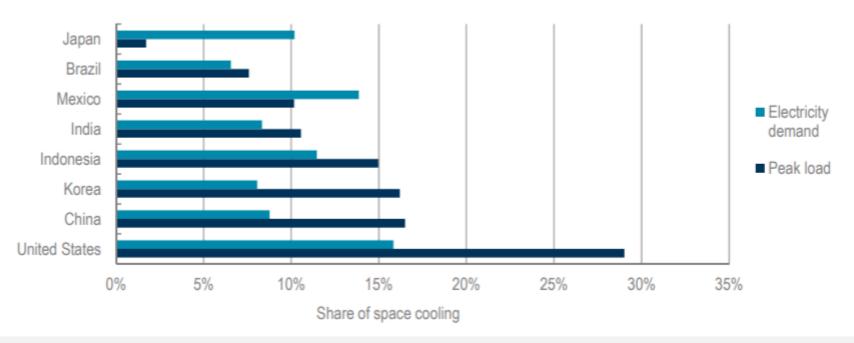
3 million tonnes of CO₂ a year or 2.7 million cars taken off the roads

UJALA ≡ Affordable LEDs and Appliances for All

Reducing peak demand via efficiency can help reduce costs



Share of cooling in peak load and total electricity demand by country/region, 2016

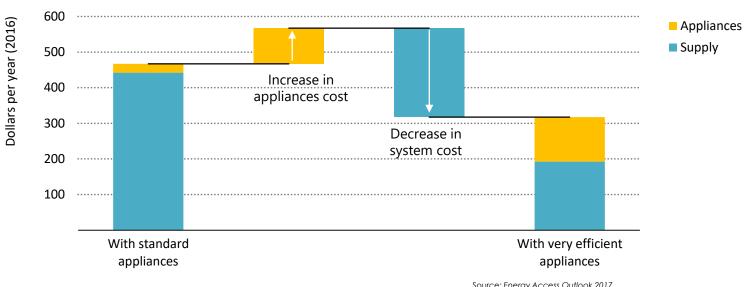


Cooling appliances take a major share of peak load that gets passed on to consumers

Energy efficiency reduces the cost of increasing energy access



Cost of providing electricity access through off-grid solar PV, with and without efficient appliances, 2030



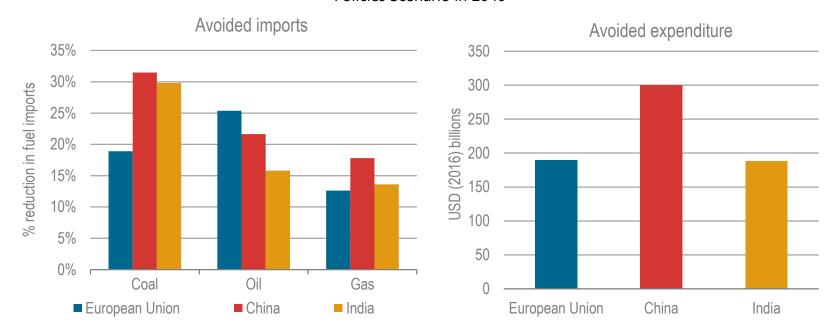
Source: Energy Access Outlook 2017

The use of efficient appliances reduces the amount of energy required to meet demand for energy services, reducing the cost of improving energy access.

Efficiency can further enhance security in major importing regions



Avoided imports (left) and reduction in fossil-fuel net-import bills (right) in the Efficient World Scenario compared with the New Policies Scenario in 2040

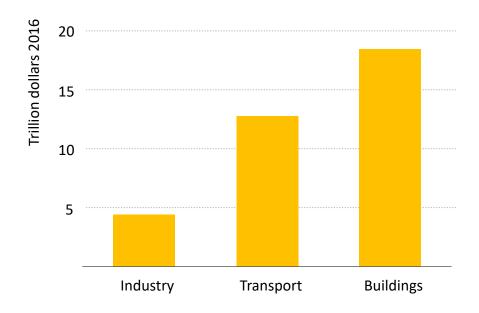


The EU, China and India, could avoid nearly USD 700 billion in fossil fuel imports by 2040.

Fuel cost savings outweigh investment needs by a factor of three



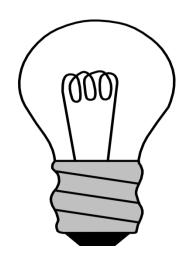
Cumulative investments needs in energy efficiency in a clean energy transition scenario, 2017-2050

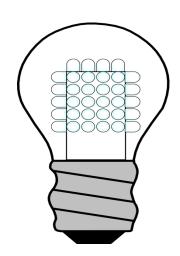


Energy efficiency investments needs in end-use sectors are large, but are outweighed by fuel cost savings; on average, each dollar invested saves three dollars over technology lifetimes.

Energy Efficient Prosperity







Energy efficient prosperity is about getting more out of the energy we use

Energy efficiency as an enabler for at least a third of the SDGs



Sustainable Development Goals







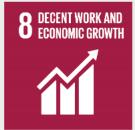
























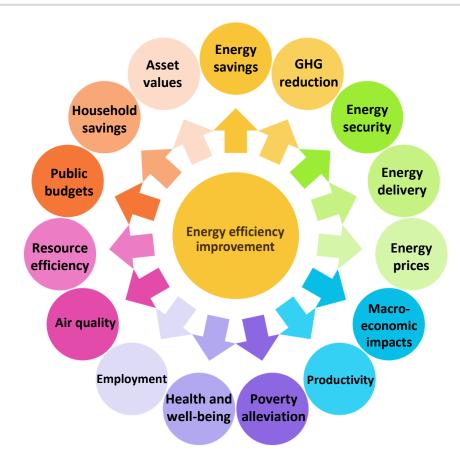






Multiple benefits of energy efficiency







How strong is the awareness about multiple benefits of energy efficiency in your country?



Interview your neighbour



Using multiple benefits, provide some recommendations on how to improve the design/communication and implementation of the EE programme/policy/mechanism.

