

Unlocking energy efficiency's potential

Tyler Bryant, IEA lead on Energy Efficiency Markets

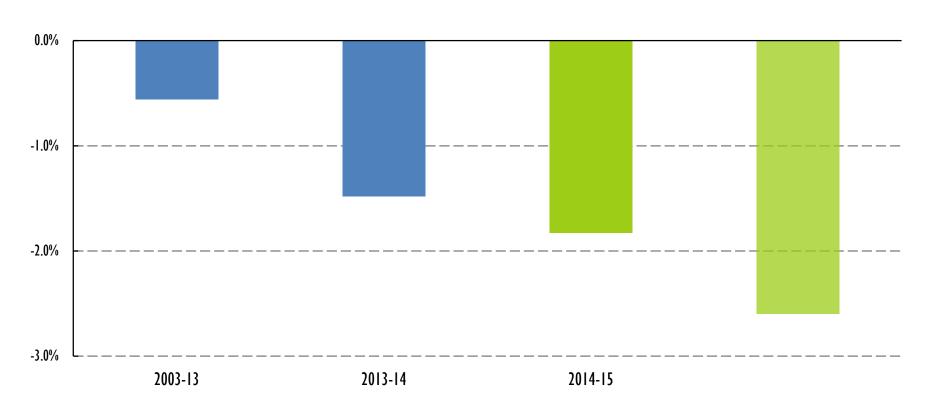
October 18, 2016

www.iea.org/eemr16

Energy intensity is improving but not fast enough



Global annual energy intensity gains

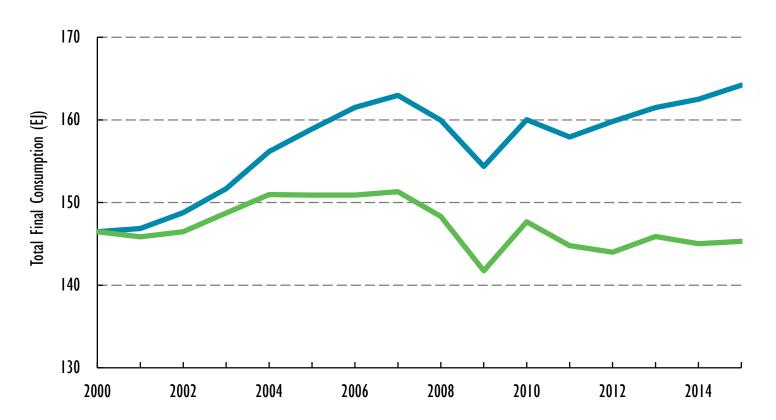


In 2015, global intensity improved by three times the average of the last decade, despite a low price environment. Intensity gains need to increase to 2.6% to achieve our climate goals.

Energy efficiency is the main driver of intensity improvements



Final energy demand and energy demand if efficiency had not improved over 2000 levels in IEA countries

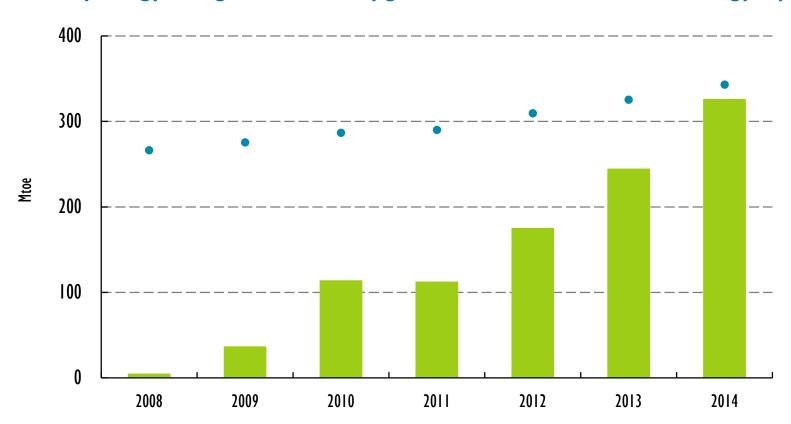


Without efficiency gains energy demand in 2015 in IEA countries would have grown by 1% and would have been higher than the 2007 peak. Instead, energy demand is 1% below 2000 levels.

In China, efficiency and renewables are decarbonizing its energy system



Primary energy savings from efficiency gains since 2000 and renewable energy supply in China

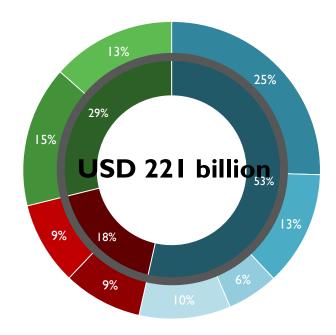


Dramatic progress on energy efficiency saved 350 million tonnes of coal in 2014. Energy savings are as large as China's renewable energy supply.

Energy efficiency investment is growing



Global investment in energy efficiency by sector, 2015

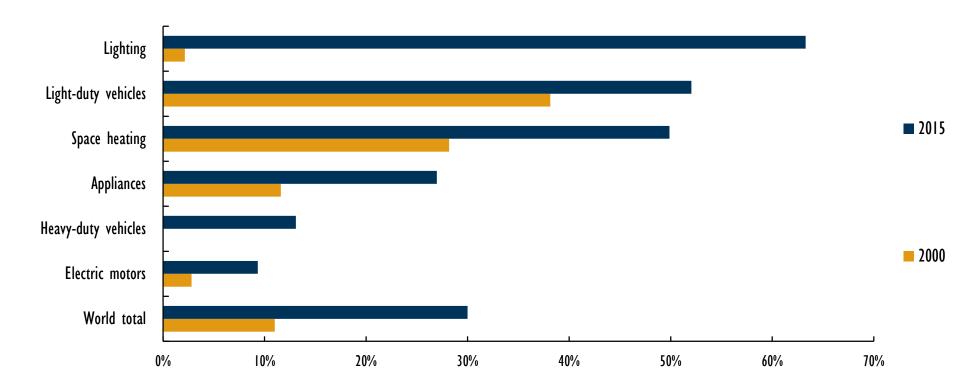


Investment in energy efficiency increased by 6% in 2015, led by growth in the buildings sector.

Efficiency gains have been driven by the expansion of policy



Share of global energy use covered by mandatory standards and regulations

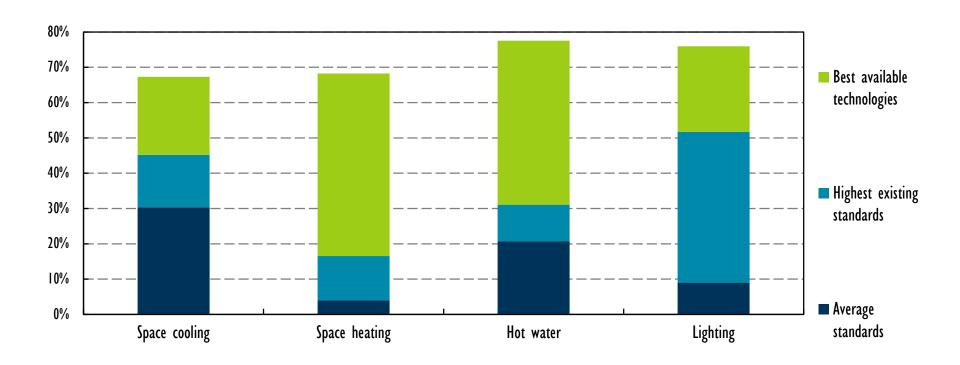


30% of the world's energy consumption is now covered by mandatory standards and regulations, up from 11% in 2000.

Policies still have significant potential to save energy



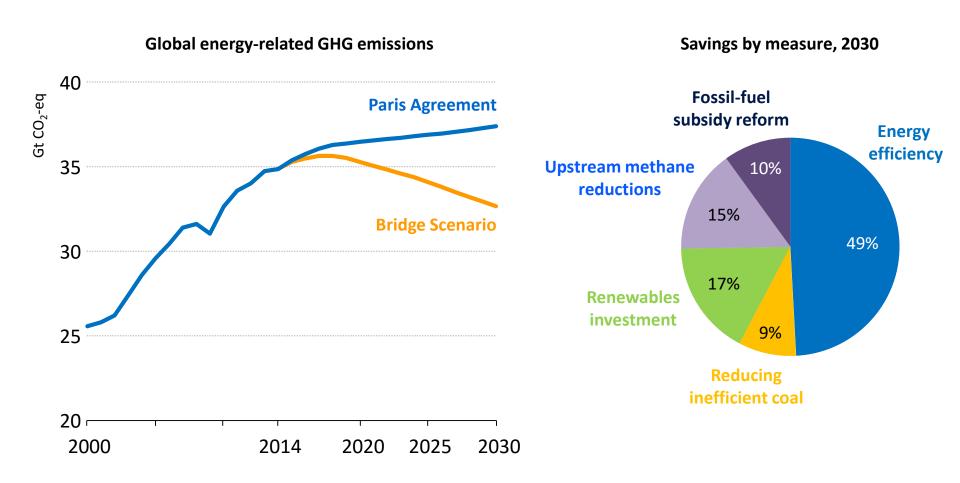
Energy savings potential of standards as a share of global end-use energy, 2015



If the best in class standards had been implemented in all countries, global residential energy consumption would have been 14% lower in 2015.

Peaking emissions around 2020: A Bridge Scenario to greater ambition





Globally, energy efficiency is the largest, most important action to get on track to well below 2 degree warming

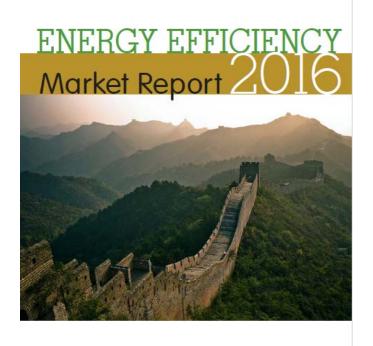
Concluding messages of the EEMR



- Global energy intensity improvement is accelerating, despite declining energy prices, but more is required.
- Policy delivers, but stronger policy is required: Still 70% of global energy use is outside of any mandatory efficiency requirements.
- Energy efficiency is a central component of any suite of actions to meet our GHG targets.
- Countries can learn from each other on energy efficiency. The IEA will continue to lead global analysis and knowledge exchange.

Energy Efficiency Market Report: Free to download







www.iea.org/eemr16