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Portfolio of actions to reduce energy sector emissions





Portfolio of actions to reduce energy sector emissions



EE provides largest contribution to abatement



Energy Agency 1974-2014 Decoupling GDP from Energy ...





















Long-term investment landscape for a 2 °C world

Cumulative Investment in the New Policies and 450 Scenarios, 2014-2035





1974-2014 Global Energy Efficiency Market

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Current market estimated to be between USD 310-360 billion





Potential for EE scale-up is there ...

Energy efficiency potential used by sector in the WEO 2012 New Policies Scenario



- Unrealised energy efficiency potential
- Realised energy efficiency potential

Two-thirds of the economic potential to improve energy efficiency remains untapped in the period to 2035



Helping EE to achieve its CC potential

Policies

Pricing

Strengthen the narrative



25 EE Policy Recommendations

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Cross-sectoral

- 1. Energy efficiency data collection and indicators
- 2. Strategies and action plans
- **3.** Competitive energy markets with appropriate regulation
- 4. Private investment in energy efficiency
- 5. Monitoring, enforcement and evaluation of policies and measures

Buildings

- 6. Mandatory building energy codes and minimum energy performance requirements;
- 7. Aiming for net zero energy consumption in buildings
- 8. Improving the energy efficiency of existing buildings
- 9. Building energy labels or certificates
- 10. Improved energy performance of building components and systems

Appliances and Equipment

- **11. Mandatory MEPS and labels for appliances and equipment**
- 12. Test standards and measurement protocols for appliances and equipment
- 13. Market transformation policies for appliances and equipment

Lighting

- 14. Phase-out of inefficient lighting products and systems
- 15. Energy efficient lighting systems

Transport

- **16. Mandatory vehicle fuel efficiency standards**
- 17. Measures to improve vehicle fuel efficiency
- **18.** Fuel-efficient non-engine components
- **19.** Improved vehicle operational efficiency through Eco-driving and other measures
- 20. Transport system efficiency

Industry

- 21. Energy Management in industry
- 22. High efficiency industrial equipment and systems
- 23. Energy efficiency services for small and medium enterprises
- 24. Complementary policies to support industrial energy efficiency

Utilities and end-use

25. Energy Utilities and end-use energy efficiency



Helping EE to achieve its CC potential

Pricing:

towards a 'fair and balanced' pricing regime

- Removing fossil fuel subsidies
- Factoring-in negative externalities of fossil fuels
 - Climate
 - Air pollution
 - Etc.



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IEA fuel market reports







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Important for developing countries

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Multiple benefits are of particular importance for emerging economies and developing countries

















GHG abatement



EE and CC: Insights

- Energy efficiency is a major component of the global energy system and ...
- EE is a big part of the CC mitigation solution, but ...
- Getting EE to meet our CC ambition will require more concerted effort to promote EE



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Thank You

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