Tracking Clean Energy Progress

Energy Technology Perspectives 2012 excerpt
IEA input to the Clean Energy Ministerial

Ambassador Richard H. Jones,
Deputy Executive Director,
International Energy Agency
Action in all sectors is necessary...

Global CO₂ emissions under ETP 2012 scenarios
Progress is falling short of what’s needed

- Progress in almost all technologies areas is not where it needs to be
- Significant action is required to get back on track
- Energy security, economic and environmental benefits will be far reaching...

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- Green: On track
- Orange: Improvement, but more effort needed
- Red: Not on track
Fossil fuels continue to dominate power generation

Changes in sources of electricity supply, 2000-09

Coal remains the largest source of electricity supply, and met about half of additional electricity demand over the last decade.
Renewables have seen notable success

Renewable power generation

- **42%** Average annual growth in Solar PV
- **75%** Cost reductions in Solar PV in just three years in some countries
- **27%** Average annual growth in wind
Fuel economy has improved, but large potential remains

Vehicle fuel economy, enacted and proposed standards

The number one opportunity over the next decade in the transport sector, but few countries have standards in place.
Government ambitions must translate into action on the ground...

Government and manufacturer Electric Vehicle targets
Energy intensity must continue to decline

Significant potential for enhanced energy efficiency can be achieved through best available technologies.
Fuel savings and infrastructure benefits will be achieved.

In the near-term, USD 5 trillion of additional investment is required, but USD 4 trillion in fuel savings is achieved.
Recommendations for Energy Ministers

1) Level the playing field for clean energy technologies

2) Unlock the potential of energy efficiency

3) Accelerate energy innovation and public research, development & demonstration

Help move clean energy from fringe, to main stream markets...