

Capitalizing on Renewables

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Short - and Medium - term Opportunities and Economic & Employment Benefits

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IEA Implementing Agreement on Renewable Energy Technology Deployment

The mission of IEA-RETD is to accelerate the large-scale deployment of renewable energies

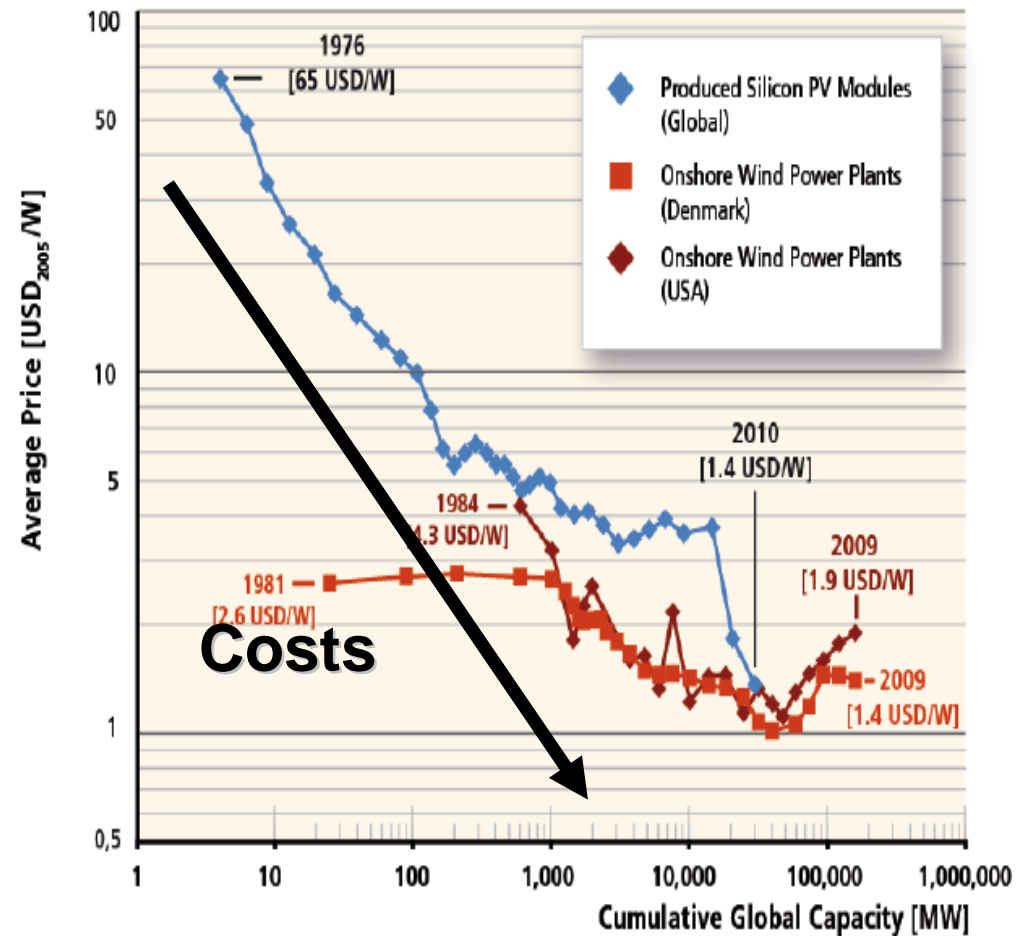
IEA-RETD is a policy-focused, technology cross-cutting platform that brings together the experience and best practices of some of the world's leading countries in renewable energy with the expertise of renowned consulting firms and academia.

A reminder: Why renewable energy?

- **Economic and industrial development**
- **Security of supply**
 - Increased prices and price volatility
 - Depletion of resources
 - Geo-political stability
- **Environment**
 - Acidification
 - Health effects: smog and fine particles (PM10)
 - Nuclear risks (accidents, proliferation, waste)
 - Fossil fuel risks (mining risk, oil spills)
 - Global warming

Renewable energy: An evolving success story

- Costs decline (while fossil energy prices increase)
- Installed capacities increase
- Market shares increase: renewables are becoming mainstream in many regions
- Renewable energy systems deliver: a reliable energy supply can be achieved



IPCC, 2011

Renewable energy: An evolving success story

..... with a happy end?

- Renewable energy becomes a threat to vested interests
- Misperceptions on costs and benefits prevail
- Sustainability of renewable energy
- System integration requires special attention
- Developments in this decade will determine the production mix for the next decades: risk of lock-in
 - Economic uncertainty
 - Role of unconventional gas (e.g. shale gas)?
 - Role of coal (with or without carbon capture and storage)?
 - Role of nuclear (after Fukushima)?

Urgency of action

“We cannot afford to delay further action to tackle climate change.”

“Delaying action is a false economy:

for every \$1 of investment avoided in the power sector before 2020 an additional \$4.3 would need to be spent after 2020 to compensate for the increased emissions.”

IEA World Energy Outlook 2011

Short term action needed

- What actions can be taken by policy makers now to sustain the development trends of renewable energy?
- Bearing in mind the global economic and financial conditions/constraints?
- How can countries capitalize on renewables?



This workshop: Capitalizing on renewables

- Morning session: Preparing for a renewable future
 - Global developments
 - Country cases (Canada, USA, Japan, France)

- Afternoon session: Employment and economic benefits
 - Quantifying employment and economic benefits
 - Country cases (Canada, Europe, Germany)



THANK YOU!

For additional information on RETD

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