1. Why Collect Renewable Energy Statistics?

Renewable Energy Statistics Training







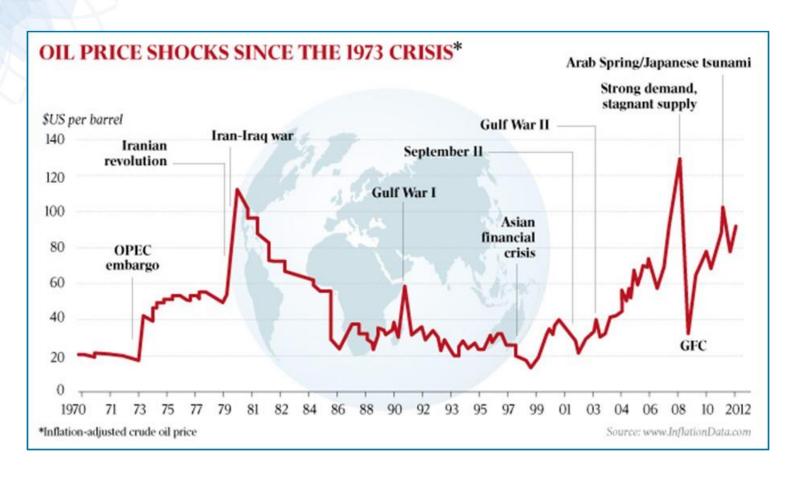
Main uses of energy statistics:

- Economic planning and development
- Socioeconomic development
- Environmental impacts
- Policy development and monitoring

Sustainable Development Goals

Short-term planning

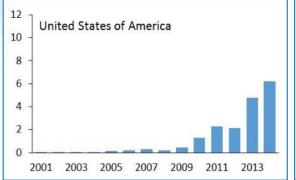


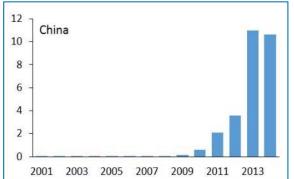


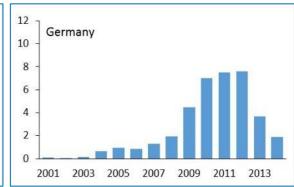
Interest in energy statistics has often been driven by market developments

Short-term planning

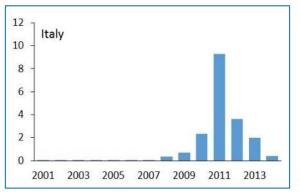








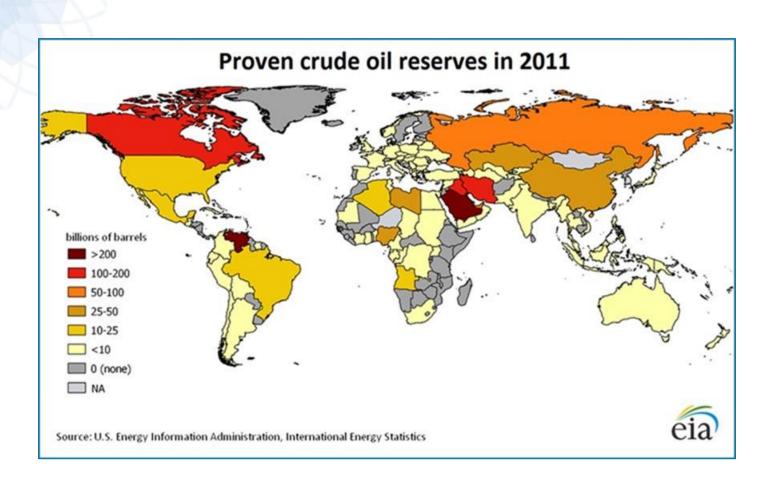
New solar PV installations (GW) in four countries with the largest capacity



Market developments in renewable energy technologies are rapid and unpredictable

Long-term planning

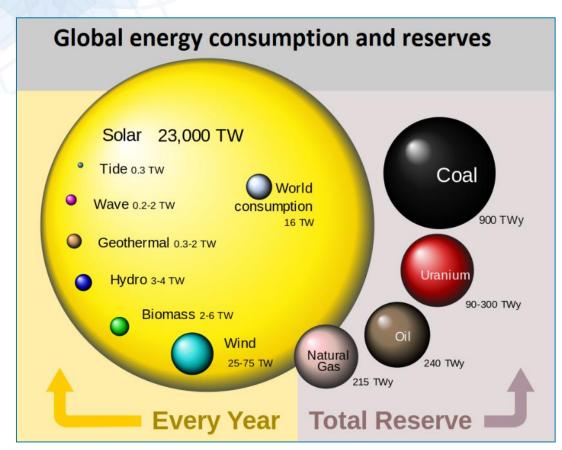


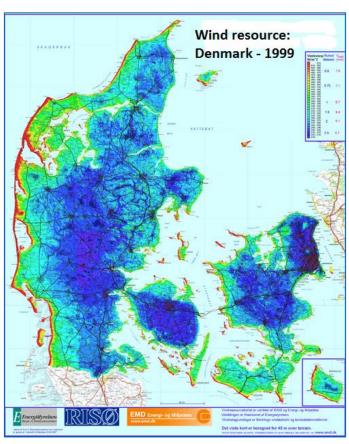


Long-term availability of energy supplies

Long-term planning



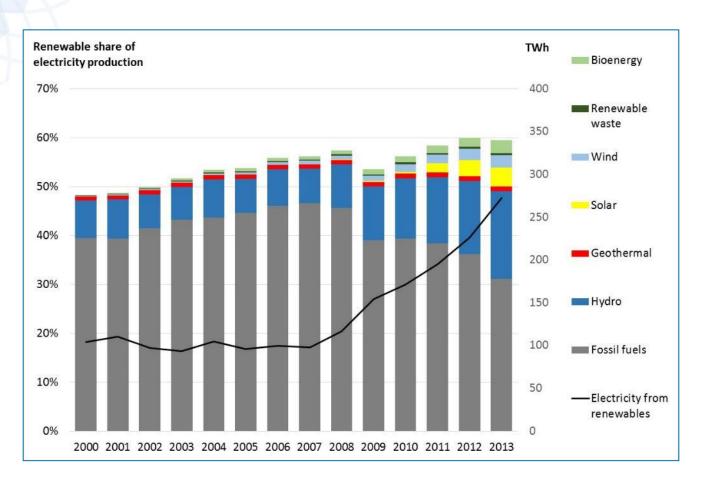




Availability of renewable energy

Energy security: long-term

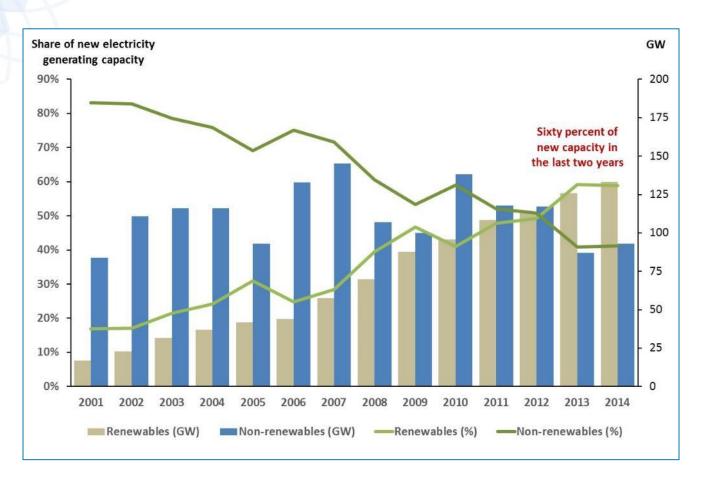




Italy: electricity production 2000 - 2013

Energy security: long-term





Global annual increase in generating capacity 2001 - 2014

Energy security: short-term











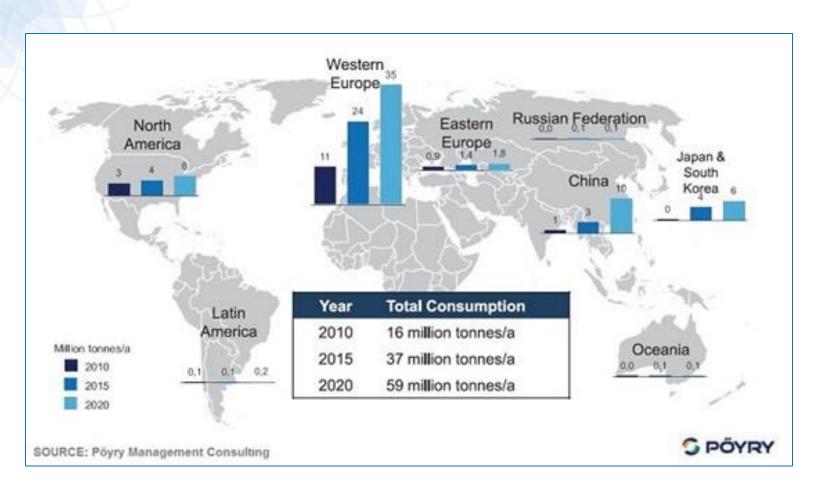




Grid integration, especially variable resources

Trade analysis

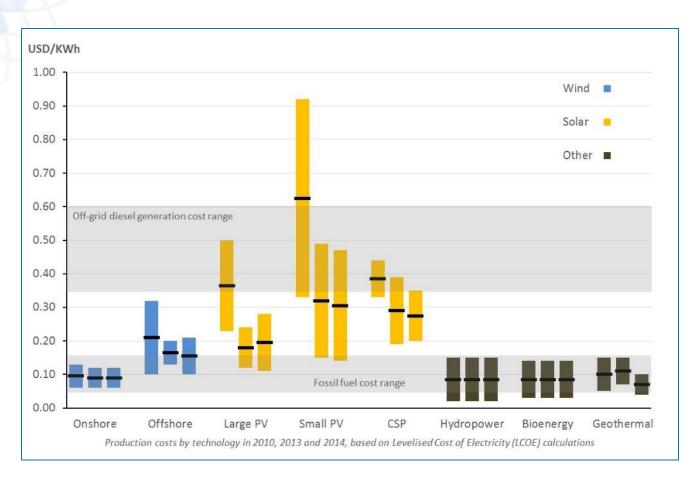




Wood pellet trade outlook: four-fold increase in 10 years

Production cost analysis

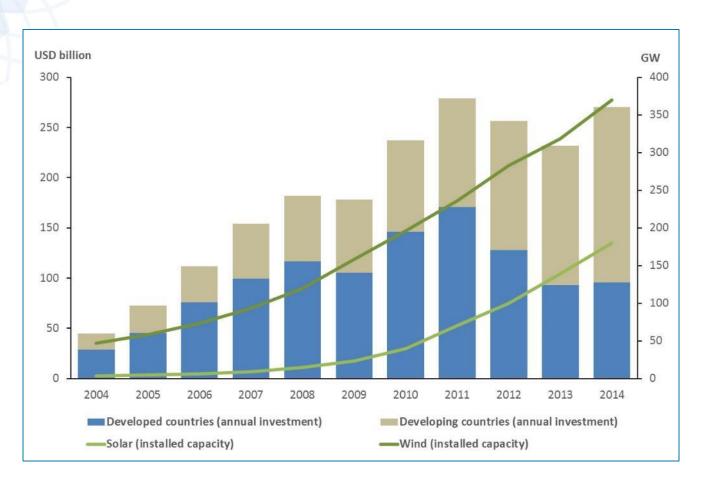




Cost of electricity generation from renewables is falling

Investment analysis





Global investment in renewable electricity capacity

Socioeconomic analysis









One of the main socioeconomic benefits derived from energy is its contribution to the fulfilment of basic human needs for food, water, shelter, health and education.





Energy access





Jobs, income and trade





Environmental impacts









Measures of environmental impact:

- Carbon-dioxide and other emissions
- Water use, land use
- Sustainability of bioenergy production

Policy monitoring



UAE Energy Strategy for 2050

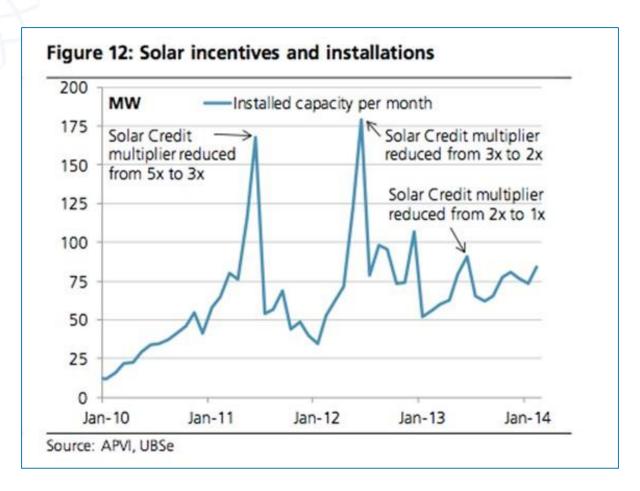


Targets include:

- 44% clean energy
- 38% gas
- 12% clean coal
- 6% nuclear
- 40% reduction in residential energy consumption.

Policy monitoring





Australia: Rooftop solar panel installation

Energy SDG and targets



SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all

- Ensure universal access to affordable, reliable and modern energy services
- Increase substantially the share of renewable energy in the global energy mix
- Double the global rate of improvement in energy efficiency
- Enhance international cooperation to facilitate access to clean energy research and technology.....
- Expand infrastructure and upgrade technology for supplying modern and sustainable energy services....



Thank you!