

The Global Annual Energy Meeting "The Coming Energy Market", IV edition

GAMESA: a vision from the market

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Solid start of a new period

In 2012,

Market environment:

- **Electricity demand reduction.**
- Adjustment of renewables support policies and reduction in utilities investment plans.
- Industrial excess capacity keeps pressure on margins.
- Wind competitiveness improvement.

2015 Current ENVIRONMENT:

- Improvement in the macroeconomic environment and in funding conditions.
- Growth in energy demand, especially in emerging economies where growth in wind installations is concentrated.
- Greater regulatory visibility and commitment to renewables.
- Competitive environment, but in an industry with a healthy cost structure and sound balance sheets.
- 5 Wind power is increasingly competitive.

Improvement in the global renewables environment and wind competitiveness bode well for a more sustainable and sound future

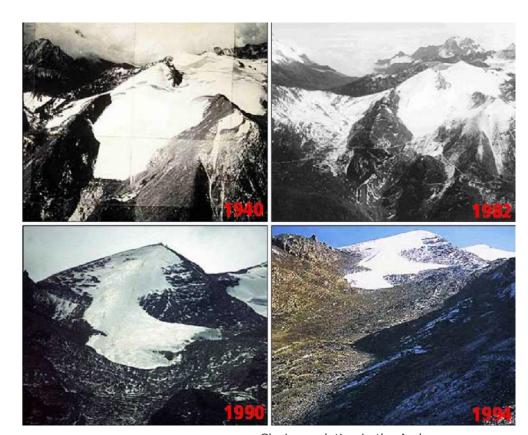
Renewables.... Still wondering Why?

2009 COPENHAGUEN-2010 CANCUN:

The increase in global temperature **should be below 2ºC** (by the end of the century), in a context of sustainable development

The combined average temperature over global land and ocean surfaces for 2015 has raised in 0,85°C

...Urgent measures should be adopted: the later we act, the worse and more expensive it will be

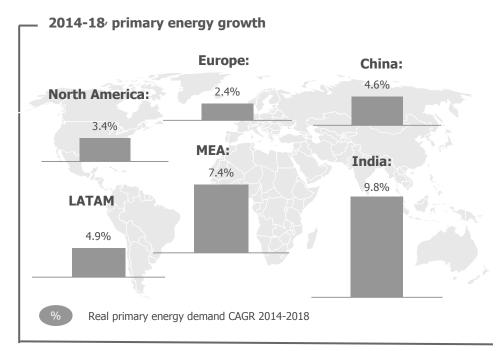


Glacier evolution in the Andes

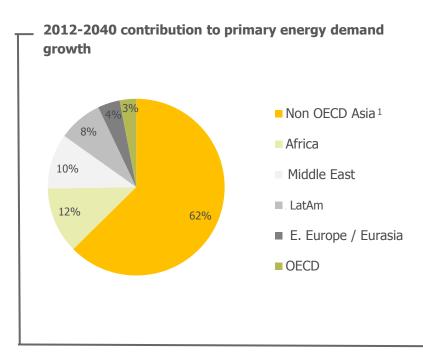


Growth in energy demand, especially in emerging markets

Which are expected to contribute with an 80% of the growth in energy demand over the next 30 years



Source: Economist Intelligence Unit



Source: International Energy Agency. 2014 Perspectives

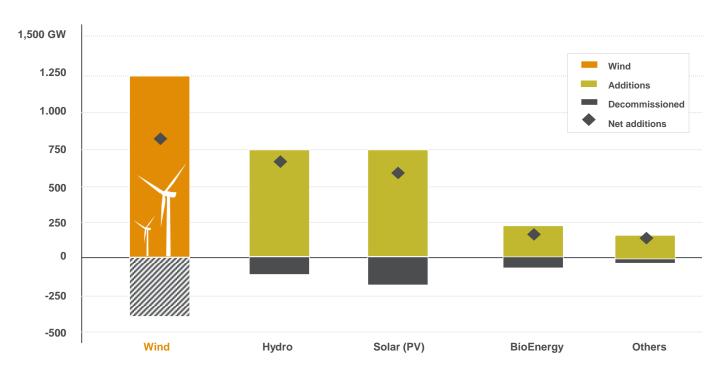
(1) Asia, excluding Japan and South Korea

More than 80% of the long term growth in primary energy comes from emerging markets.

Environment analysis

Wind power share

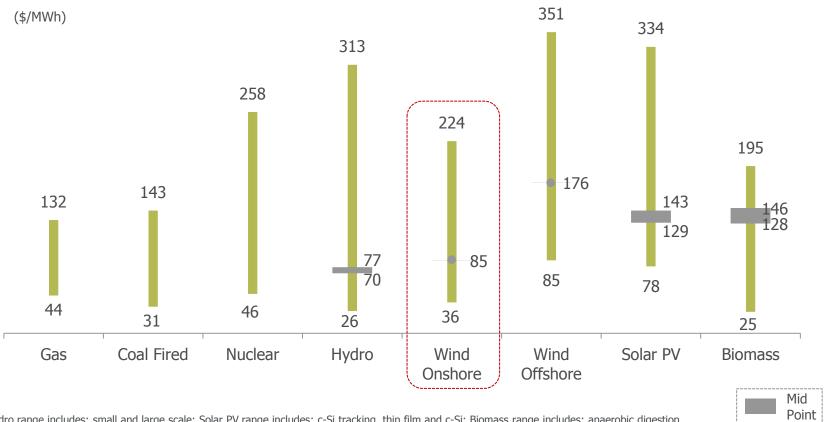
ACCUMULATED RENEWABLE ENERGY-BASED CAPACITY ADDITIONS & WITHDRAWALS, 2013-2035



Source: IEA and Gamesa Marketing

Over half of the world's additions in power capacity is based on renewable energies, increasing its current generation share of 20% to 31% in 2035. Forecast of over 700 GW for Conventional Power (fossil and nuclear) to decommission by 2025

Wind energy competitive in terms of LCoE



Note: Hydro range includes: small and large scale; Solar PV range includes: c-Si tracking, thin film and c-Si; Biomass range includes: anaerobic digestion, gasification and incineration. Source: Bloomberg New Energy Finance. LCoE (March 2015)

Wind power is now the CHEAPEST electricity to produce in both Germany and the U.K., even without government subsidies. Bloomberg New Energy Finance (Oct 6th 2015).

Greater regulatory visibility and commitment to renewables. From Rio'92 to Paris'15... and beyond

International agreements

International agreements advancing towards setting new renewable targets.

- European Union 2030 Climate and Energy Framework.
- U.S. China Joint agreement on Climate Change to reduce emissions.
- COP 21 meeting in Paris to replace The Kyoto Protocol 1997 beyond 2020.



Auctions in Europe

Trend towards competitive auction systems in Europe from 2017 onwards.

U.S.

Regulatory uncertainty in the U.S. in the mid term, however with an attractive proposal for the long term: renewable energy contribution to the mix up to 13% in 2030 (EPA1).

American Business Act on Climate Pledge. Signatory Companies demonstrate their support for action on climate change and the conclusion of a climate change agreement in Paris

Emerging markets demand

Growth in emerging markets leveraged on increasing energy demand.

- New renewable targets and regulation in India.
- 2017-2020 Plan in China: 20 GW/year of wind onshore installations and cumulative objective of 200 GW by 2020; 10 GW by 2020 of offshore wind.
- Renewable energy auctions (production and/or installations): Brazil, Egypt, Morocco,
 South Africa, Chile, Guatemala,...

(1) EPA: Environmental Protection Agency

