



public debate

More Europe, more green

Monday 15th February 2016 11.00-14.00h Aula Europa, EU premises in Barcelona Passeig de Gràcia, 90

With

Philippe Lamberts

Co-president of the Greens/EFA

Ernest Maragall

MEP Group of the Greens/EFA

Ernest Urtasun

MEP Group of the Greens/EFA

Topic 1: Economical trade-off, with Jordi Angusto, economist, as counter part

Grexit and Brexit constitute, even as menaces, a clear "less-Europe" tendency, while it is quite clear that a monetary union needs "more-Europe" to succeed —at least, a complementary fiscal and economic union. How this trade-off will be solved?

Topic 2: Environmental trade-off, with Frederic Ximeno, biologist and managing partner at ERF, as counter part

The peak-oil and its supposed ever rising oil prices helped greens to justify the need for an energy transition to renewable and an economical transition to de-growth in physical terms. Shale gas and oil have apparently postponed the peak oil and have brought oil prices to their minimum.

Open to Q&A from the audience

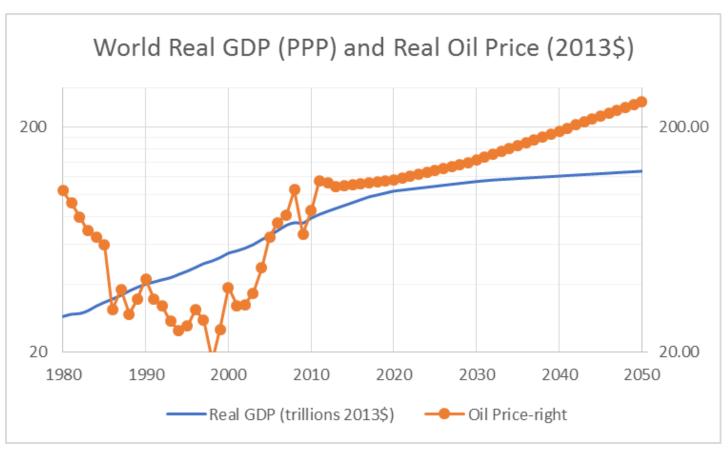
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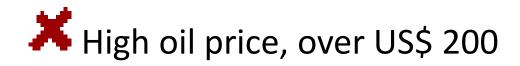




Please confirm to info@catalunyaeuropa.net or by telephone to +34 93 238 89 32 ··· Frederic Ximeno ERF-Estudi Ramon Folch fximeno@erf.cat

High oil price, over US\$ 200

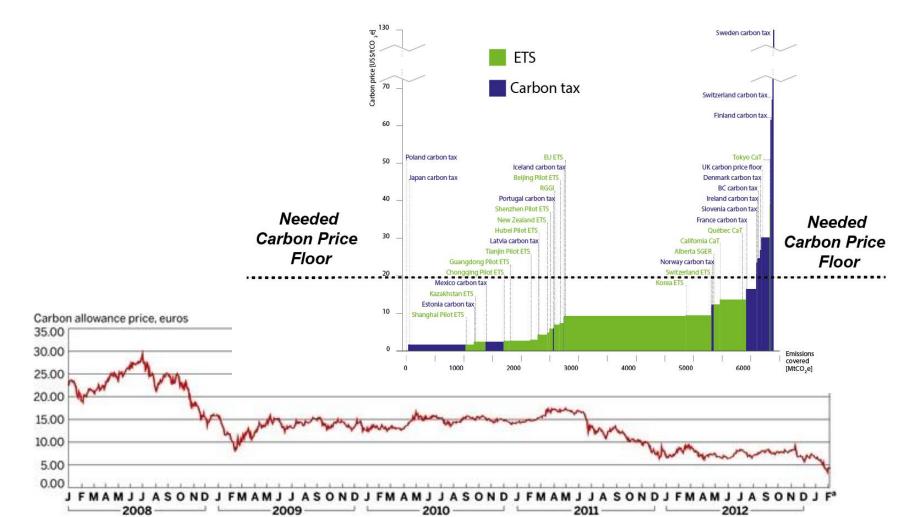




LIGHT CRUDE FEB5 CL/G5: New York Mercantile Exchange



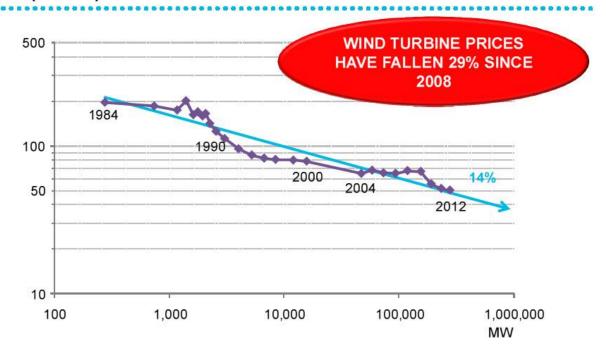
Market carbon price over 25€/tn (today is near 0!)





Lower wind power prices

AVERAGE LEVELISED COST OF ONSHORE WIND, 1984-2012 (€/MWH)



Note: Learning curve (blue line) is least square regression: R2 = 0.88 and 14% learning rate.

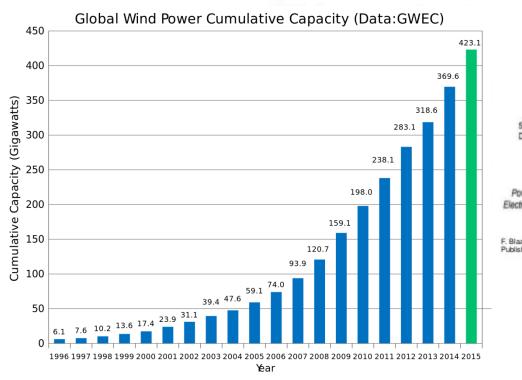
Source: Bloomberg New Energy Finance, ExTool

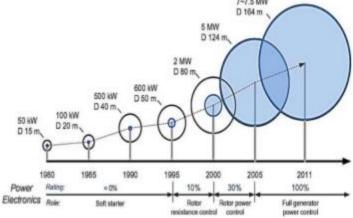


✓ Quick wind power learning curve

Oregon TECH

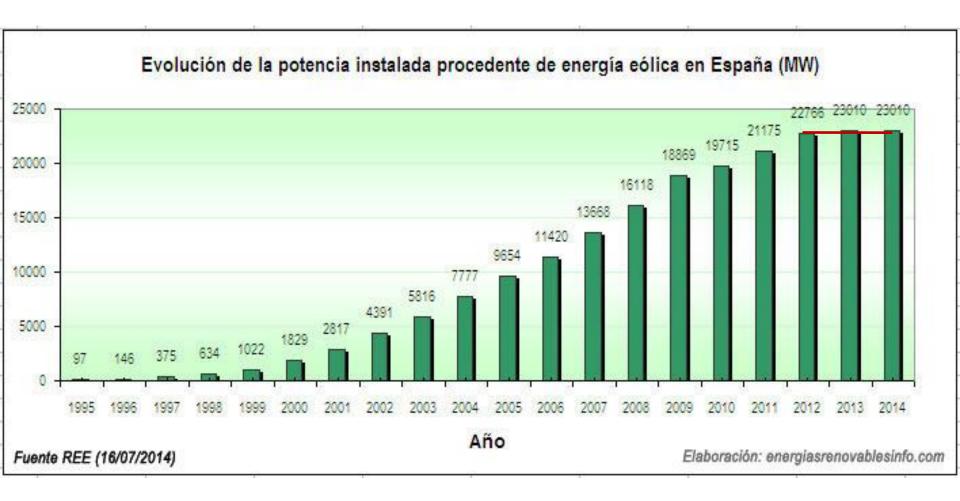
Wind turbine system evolution





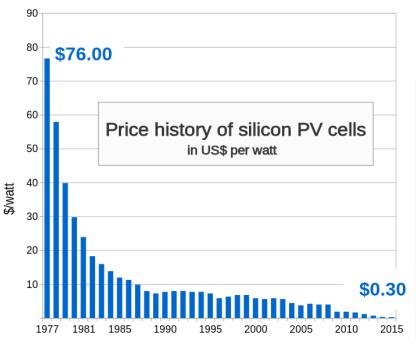
F. Blaabierg and Z. Chen. "Power Electronics for Modern Wind Turbines." Morgan & Claypool Publishers, 2006, pp. 30-55

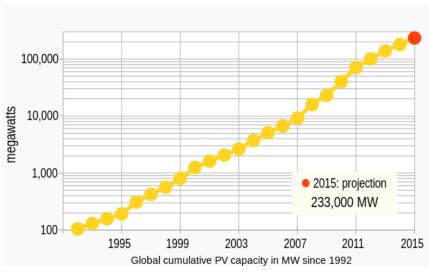
Spain leadership on wind power



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Lower solar power price





Source: Bloomberg New Energy Finance & pv.energytrend.com

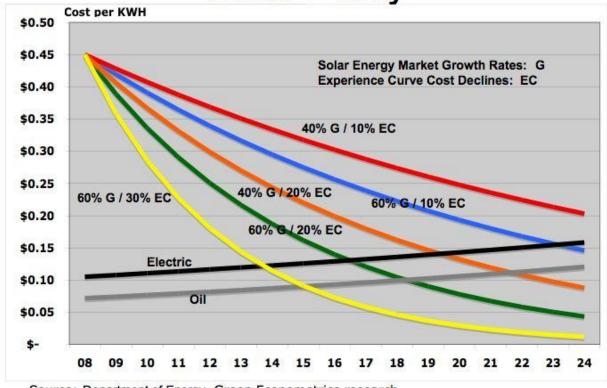
** Quick solar power learning curve... and

Classification	Efficiency
Cell (concentrator)	41.1 %
Cell at one-sun	35.8 %
Silicon cell (one -sun)	25 %
Module (concentrator)	27 %
Module (one-sun)	22.7 %
Module (production)	20.4 %**



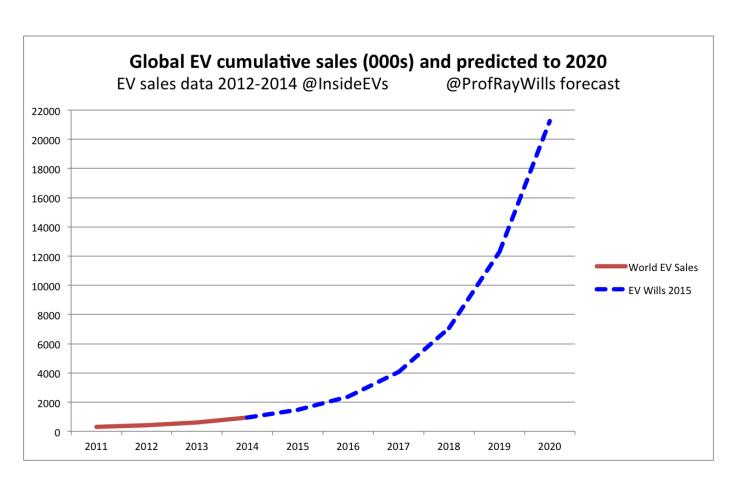
Near solar power grid parity

Solar Parity



Source: Department of Energy, Green Econometrics research

Quick penetration of EV vehicles



New roadmap?

- Market med-term signals based approach fails
- New framework: uncertainity
- Paris agreement: we have it.
 Instruments to be developed

New roadmap?

- Energy efficiency (quick saves, security, authonomy)
- Immediate cut of fossil fuel subsidies
- Prosumers-selfconsumption-> comunity empowerment, green economy
- Carbon prizing regulations
- Fossil fuel deinvest- share value creation.
- Clean air- health
- Social and economical adaptation to climate change efects as a driver
- Paris agreement: More ambition, quick new tools implemented





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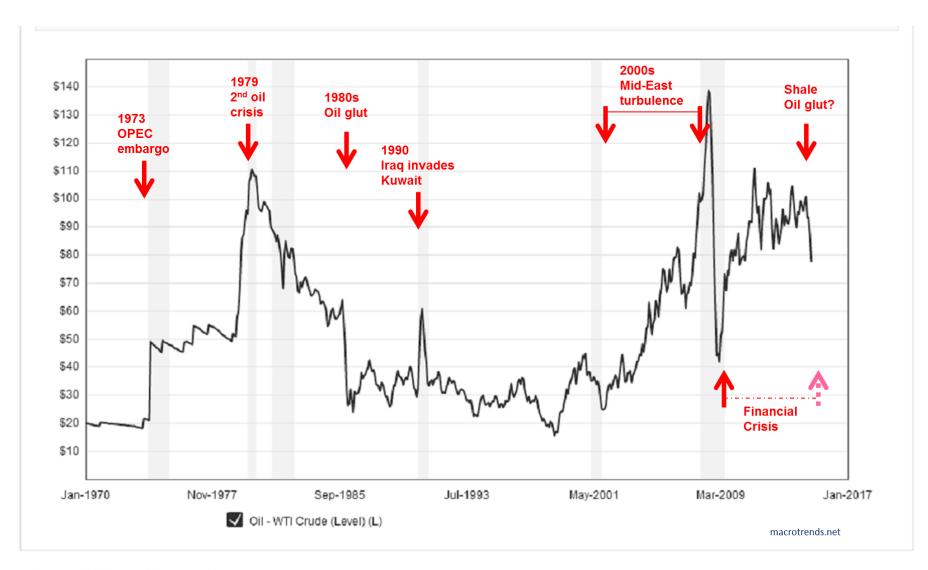
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Crude Oil Price History Chart