



On carbon price regulations

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Nordic
Green Growth



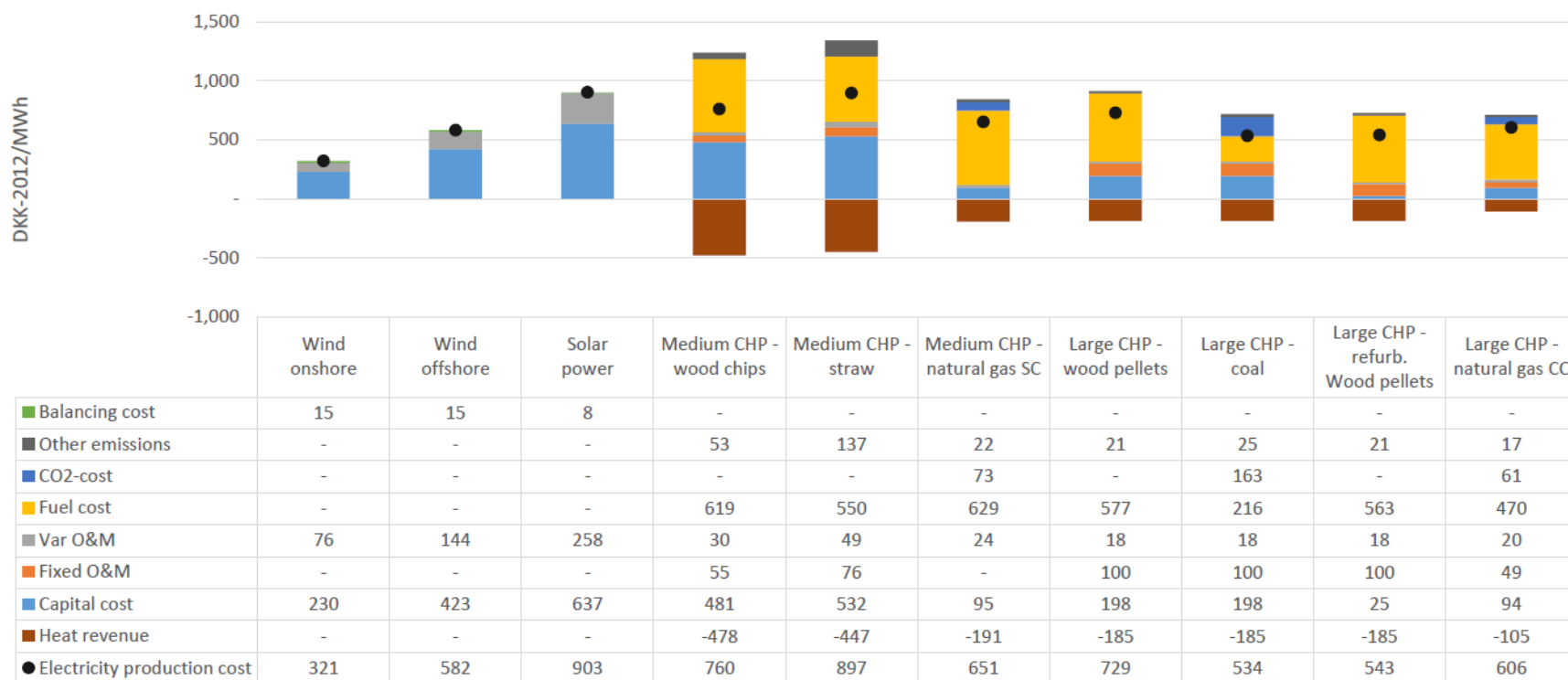
CO2-allowance price

EU CARBON PRICES RECOVER AS LEGISLATION TIGHTENS SUPPLY



Graph shows EU Allowance (EUA) carbon prices under EU Emissions Trading System.
Source: S&P Global Platts, European Energy Exchange

Energy technology costs - inclusive of external costs

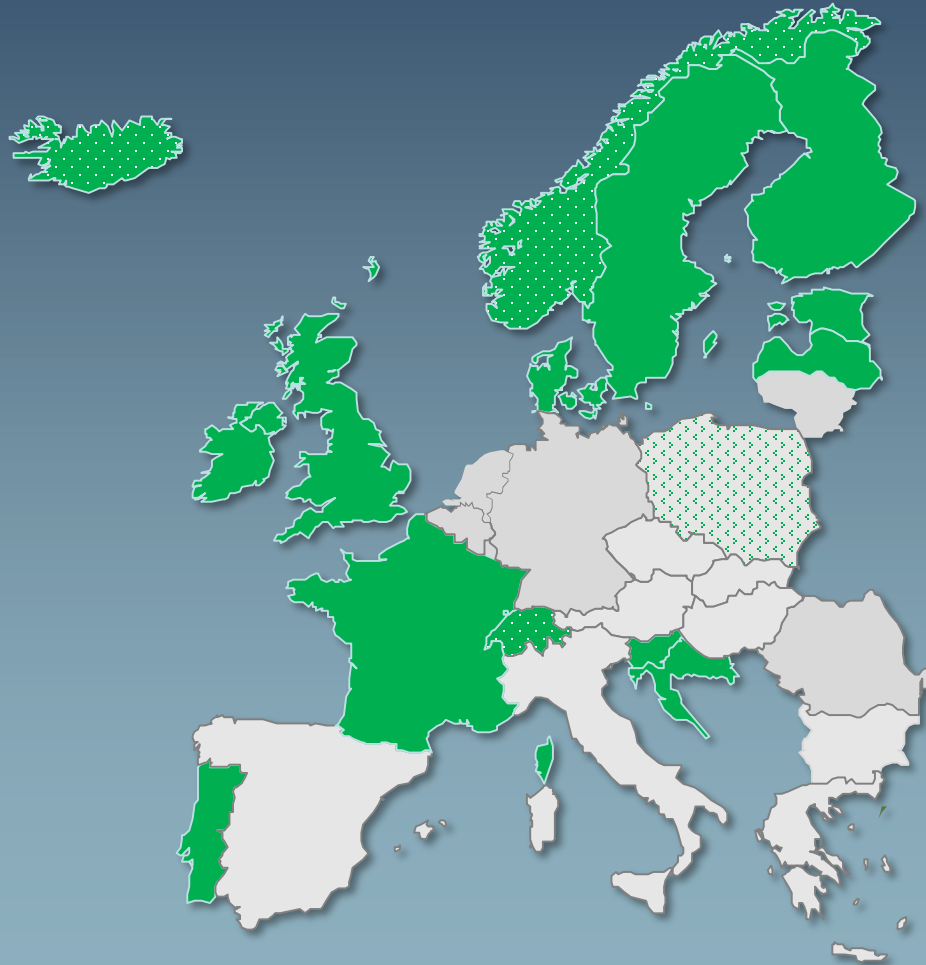


Figur 2: Grundberegning for elproduktionsomkostninger for teknologier opført i 2015.

NB with low ETS price

Countries in Europe with Carbon Tax for non-ETS emissions

- Portugal (2014)
- France (2014)
- Ireland (2010)
- Iceland (2010)
- Switzerland (2008)
- Croatia (2007)
- Estonia (2000)
- UK (1998)
- Slovenia (1997)
- Latvia (1995)
- Denmark (1992)
- Norway (1991)
- Sweden (1991)
- Finland (1990)





Sweden ???

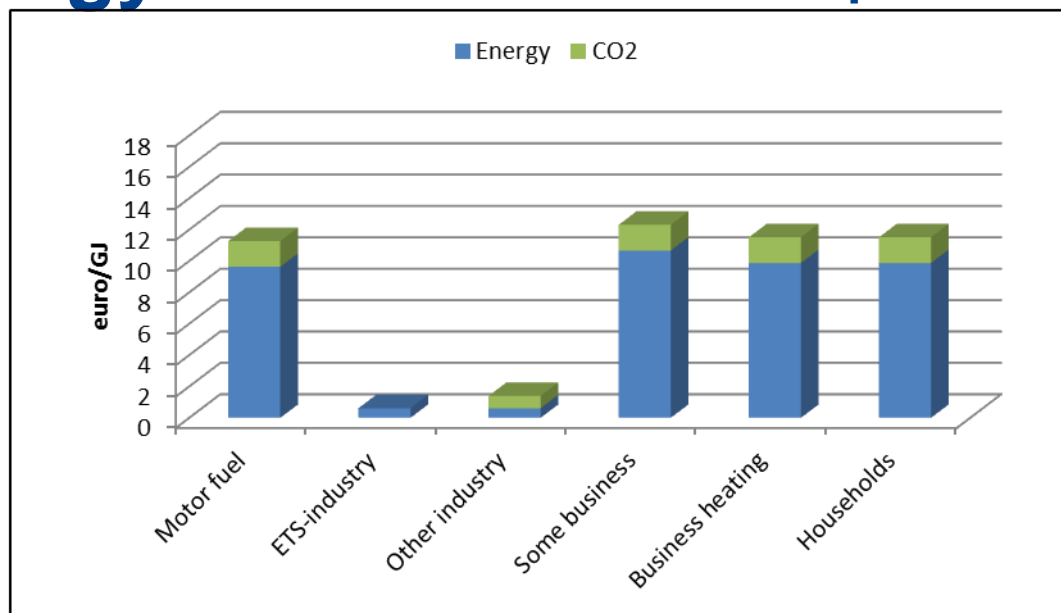


This is a big FAT Carbon TAX

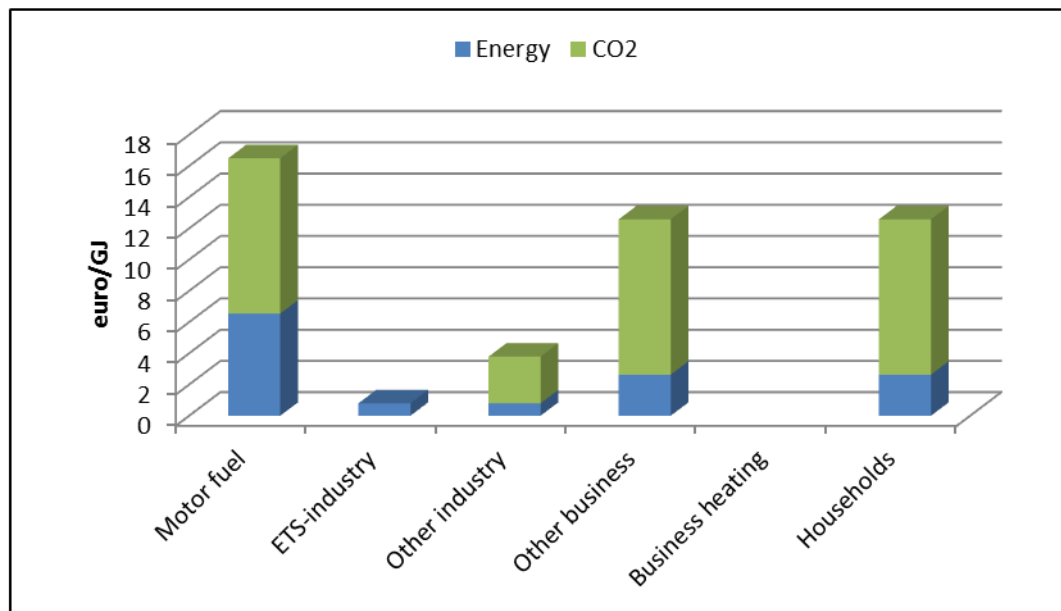
- Nordhaus: 17 \$/tonne
- Stern speaks of 20-50 \$/tonne
- 2008: RGGI 3.80 Chicago 4.50 MDP 17-25
- EU ETS : ~ 5 - 20\$
- French Tax: 32 -- 17 €/tonne
- US 10 or 20
- Swedish Tax **165 \$/ton + energy tax, fuel tax VAT etc. Gasoline costs about 9\$/gal**

Diesel: sum of energy and CO2 taxes € per GJ

› Denmark



› Sweden



**Reflections on the Scandinavian Model:
Some Insights into Energy-Related Taxes
in Denmark and Sweden**