

Strengthening of the EU ETS – what does it mean for the energy sector?

Breakfast seminar

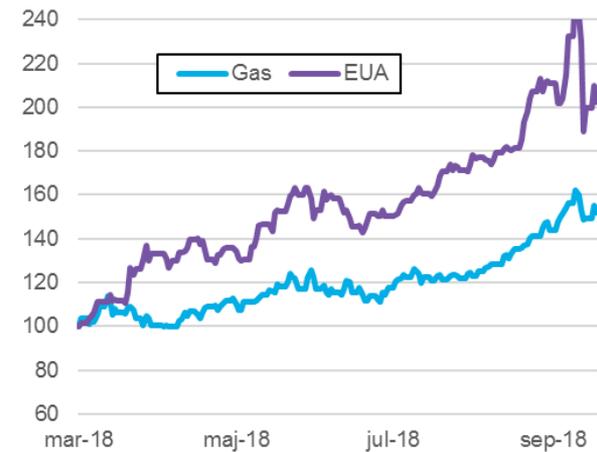
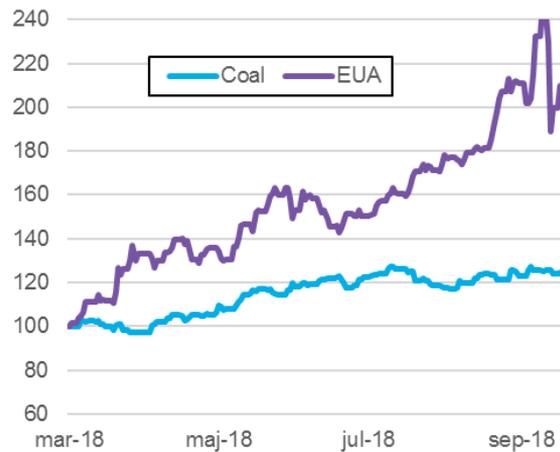
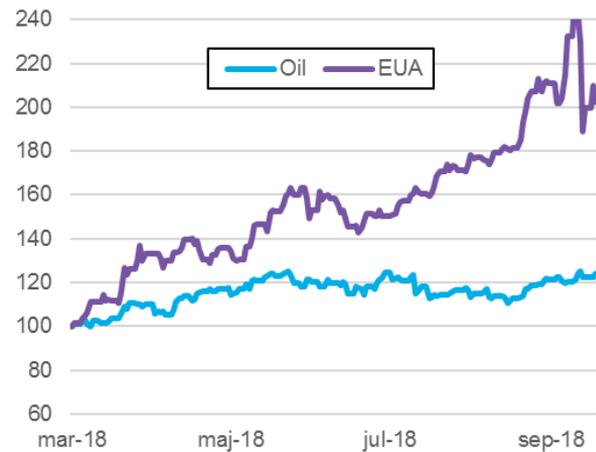
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Erik Filipsson
Public & Regulatory Affairs EU
Vattenfall AB

Summary

- ❑ **The 2017 ETS reform delivered, particularly on the pledge to address the huge EUA market surplus. Largest improvement of the policy since 2009.**
- ❑ **The EU ETS policy has become more complex (not a pure “cap-and-trade” system), but in general the reform measures have been clearly justified.**
- ❑ **Market prices in the EU ETS have performed strongly in 2018. Thereby restoring confidence in the policy to some extent, and improving the economic rationale for market-driven CO2 emission abatements.**
- ❑ **The recent EUA price rally is not a sign that the EU ETS is “fixed” once and for all.**
 - EU ETS market is still highly oversupplied. Steep EUA price drops last month.
 - Plenty of uncertainties remain (Brexit, Art. 29a, overlapping policies, etc.)
- ❑ **Further ETS reforms are needed to make the policy “Paris proof” and resilient against the impact of overlapping policies.**

EUA is the commodity which has seen the strongest price development in 2018



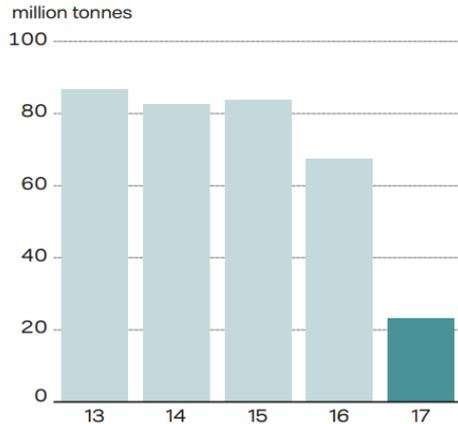
Increased correlation between EU ETS price and fuel-switching costs in 2018



- EUA market price started to increase on the back of the 2017 recast of the ETS directive agreed one year ago.
- Tightening of the EU ETS market strengthens the case for CO2 abatement by fuel-switching in the existing fleet.
- Gas prices have increased more than coal prices in 2018, thereby requiring a higher EUA price for fuel switching.
- Also other factors contributed to the increase of EUA prices (e.g. a warm & dry summer, low wind power output, return of non-compliance buyers).

Vattenfall's new strategy – full speed towards a low-CO2 economy

Annual CO2 emissions



Fossil free within one generation



Growth per technology

2018-2019

■ Wind ■ Distribution ■ Heat ■ Solar ■ New Business



Research project for a carbon dioxide-free steel industry



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Cooperation in large scale bio-diesel production



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Study on electrified cement production



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Market place for energy sharing



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Support of a major enterprise for battery production in Sweden



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Northern Europe's largest charging network for e-vehicles



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Attract industries to Sweden



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Three main EU ETS reform areas

- further measures to be considered

Policy measures which remain to be done:

Reduce the large oversupply of EUAs which has prevented the EU ETS from delivering a strong CO2 price signal

- The stronger **MSR rules**, with a doubling of the annual intake rate from 12 to **24 %**, and automatic cancellation of the most excessive ETS surplus in the Reserve, **should be kept also after 2023/2024**.

Align the EU ETS allowance cap with the EU's long-term climate goals and the Paris Agreement

- The EU's **2030/2050 climate targets** (+a new target for 2040) should be **aligned with the Paris Agreement's 1.5 °C objective** and the IPCC's trajectories of GHG reductions needed globally.

Introduce a mechanism which avoids that overlapping policies weaken the EU ETS price signal

- The **Linear Reduction Factor (LRF) should be increased further** (i.e. beyond 2.2 %) to reflect a more ambitious EU long-term climate strategy / EU 2050 energy roadmap.

- A **Policy Coherence Mechanism** should be introduced, to directly reduce the supply of EUAs in relation to the effect which **overlapping policies** have on the CO2 emissions.

TODAY