



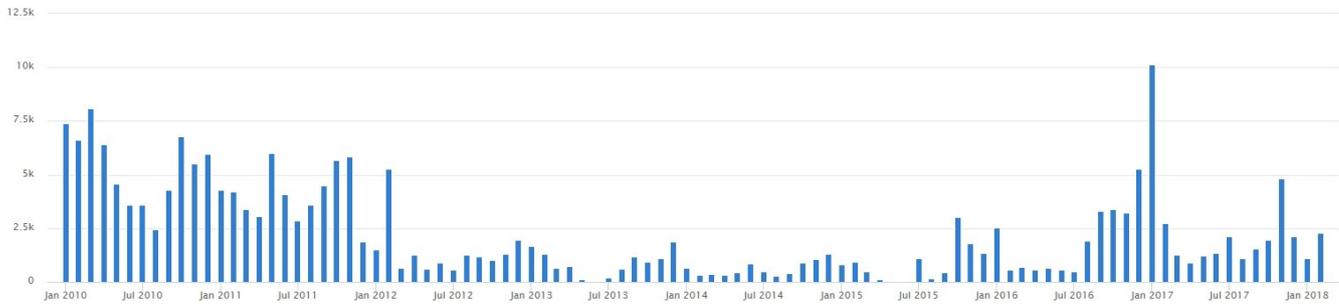
Power plant and option Report

Plant Value	Name	DE Intrinsic €/MWh	DE Simulation €/MWh	UK Intrinsic £/MWh	UK Simulation £/MWh	FR Intrinsic €/MWh	FR Simulation €/MWh
	Coal 46%	3.57 ↓	6.89 ↓	3.25 ↑	4.82 ↓	7.83 ↓	10.69 ↓
	Coal 46% option	6.24 ↓	9.17 ↓	5.93 ↑	7.34 ↓	10.57 ↓	12.96 ↓
	Gas 60%	2.35 ↓	5.80 ↓	5.67 ↑	7.01 ↑	5.98 ↑	8.88 ↑
	Gas 60% option	2.85 ↓	6.19 ↓	6.29 ↑	7.61 ↑	6.47 ↑	9.20 ↑

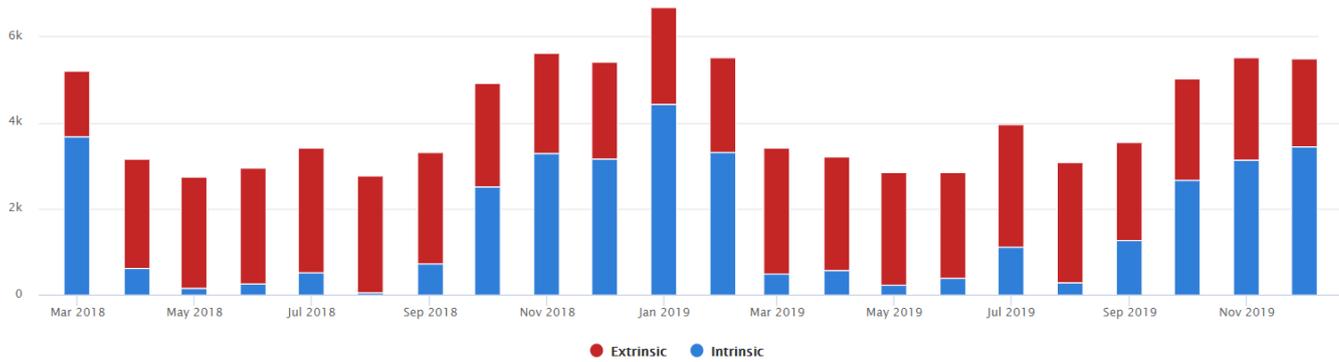
Remarks

- The valuation date for the analysis is 27 February 2018.
- Volatilities, correlations and other parameters are calibrated on 2 years of historical price data.
- The main assumptions for this analysis can be found at the end of this document.
- The forward value of the gas fired power plants in France and the UK went up during February and recovered part of the losses of January. The value of the UK gas fired power plant went up with 0.11£/MWh.
- The forward value of the German power plants decreased for the second month on a row. Both the intrinsic and extrinsic part of coal and gas fired plants went down, reflecting the continuing bearish market sentiment for fossil fuel generation in Germany.
- As can be seen in the graphs on the next page, February was actually a good month for power plants. The realized value for both the German coal and gas fired power plants went up in comparison to December and January.

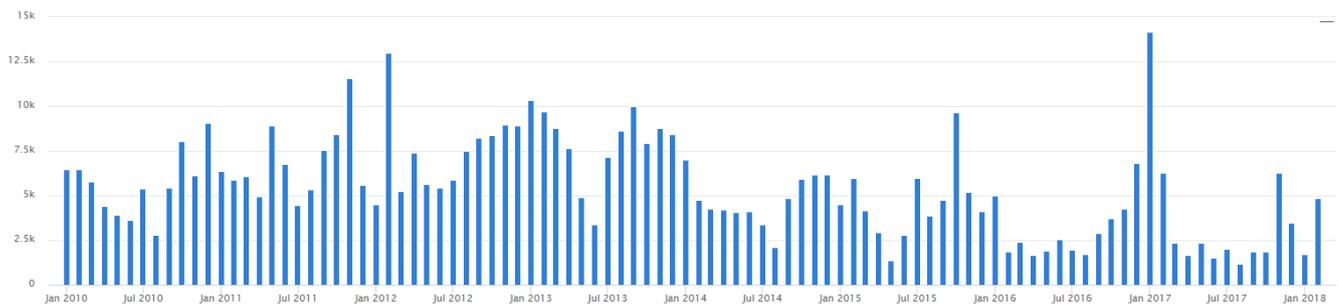
Realized value for the Gas 60% plant product (German market, value per MW)



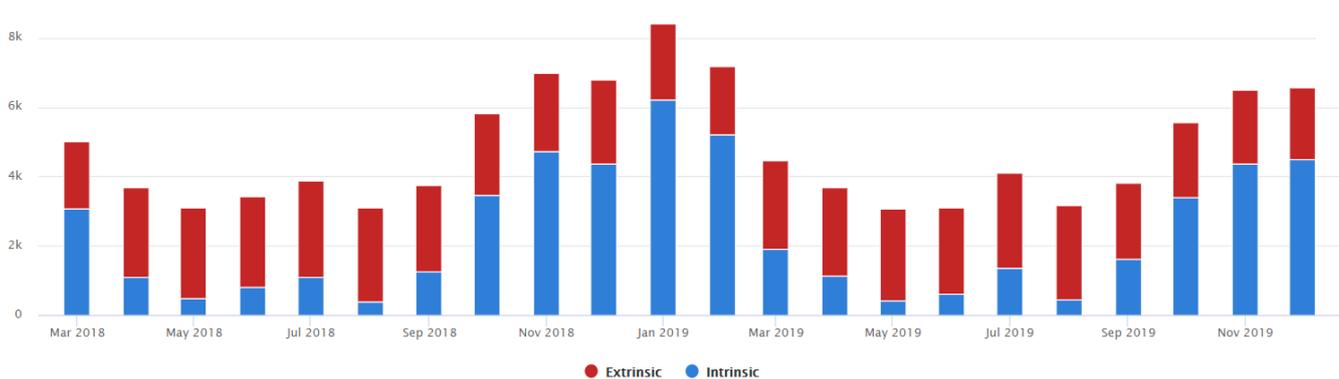
Estimated future value for the Gas 60% plant product (German market, value per MW)



Realized value for the Coal 46% plant product (German market, value per MW)



Estimated future value for the Coal 46% plant product (German market, value per MW)



Explanation

All valuations have been performed with KYOS software, in particular KyPlant and KySim. Simulation values are the average across a large number of Monte Carlo price simulations and using the least-squares Monte Carlo methodology to derive the optimal dispatch (exercise) of the products.

All plants and option products have a maximum capacity of 1 MW, at which they reach the maximum efficiency. The reported values in the table are for calendar year 2019. The 'option' products are strips of hourly clean spark or dark spread options, with no start costs and a single efficiency.

The other two products are more like real plants: they have start costs of EUR 30 (GBP 25) for coal and EUR 12.50 (GBP 11) for gas. Furthermore, to avoid a start, they can produce at 0.5 MW capacity at an efficiency which is 6% point lower.

The variable costs per MWh are EUR 3 (GBP 2.60) for the coal plant, and EUR 2.50 (GBP 2.15) for the gas plant. The coal plant also faces coal transport costs of 10 EUR (GBP 8.60) per tonne.

No other plant operational, investment or financing costs are assumed. Nor did we include maintenance, trips, minimum on- and off-times, ramp rates, etc. All these features can easily be modelled by KyPlant, but for simplicity are left out from this report.

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