



Industry power sourcing & RED-compliant PPAs



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Power Procurement in the Nordics

Industry power sourcing from industry transition projects starts to take off for real.

Still hard to find agreement on price, especially in northern Sweden.

Flexible operations more optimal, but still hard to go below baseload with current electrolyzer costs.

EU PPA requirements on RFNBO-producers, hydrogen and data centers in Delegated Acts to Renewable Directives.

PPA interest from offshore wind parks – effect from potential cfd's etc.?

Nuclear PPA, Battery PPAs?

RED Delegated Act for RFNBO, broadening to hydrogen for industry

Northern Sweden & Norway

Above 90% renewable grid

- Electricity from grid is renewable
- PPAs still signed as part of hedging strategies
- GoOs must be annulled

Finland, SE3, SE4

Low carbon-grid

- PPAs are required, from unsupported assets
- No additionality criteria (= ex hydro ok)
- Monthly matching, 24/7 matching from 2030
- Or power prices below 20 EUR/MWh

Effects on Power Procurement Strategies

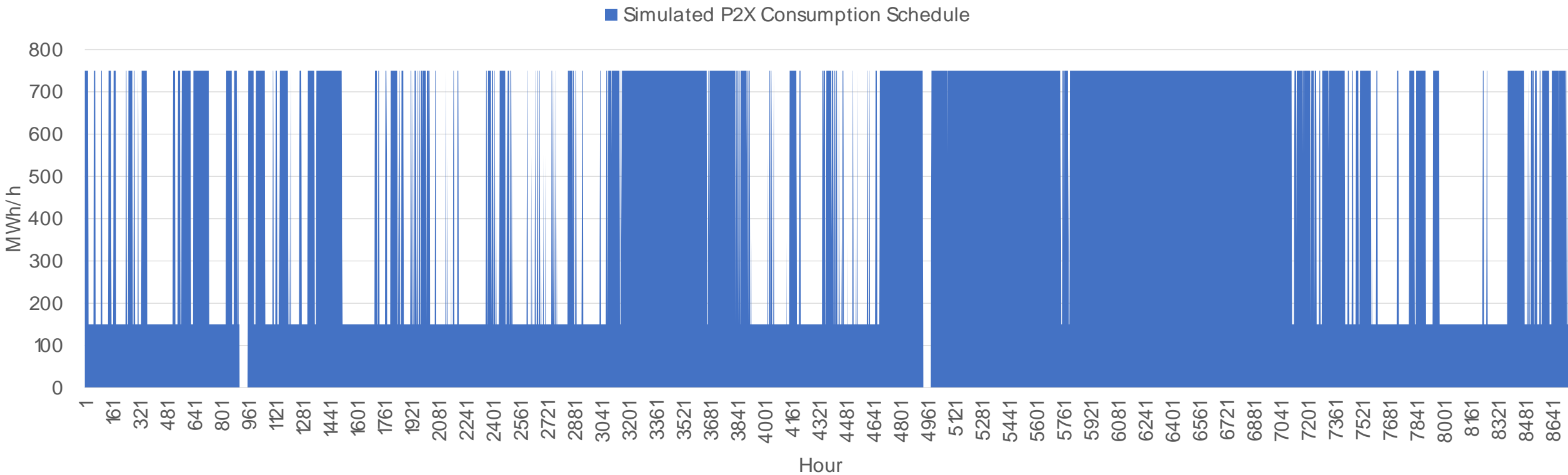
- Several PPAs from various sources
- Behind-the-meter storage
- GoO purchase
- Readiness to reduce production when lack of renewable generation – often correlated to high power prices
- Also allows for other revenues on intraday and ancillary markets.
- In low-carbon grid also look to secure offtakers to low-carbon, but not RED-compliant “end-product”

Consumption schedule not for the BASELOAD lovers...

Wind PPA Capacity:	1500 MW
Max Capacity Hours (#):	5023
Ramping Hours (#):	545
Minimum capacity Hours (#):	3099
Zero capacity Hours (#):	93

Example calc.

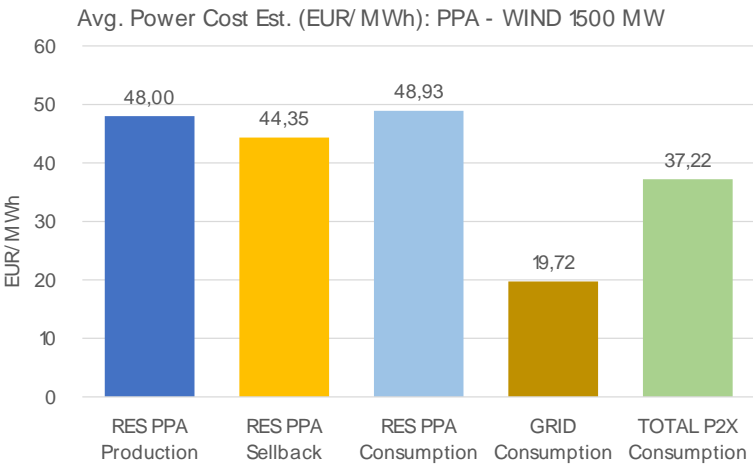
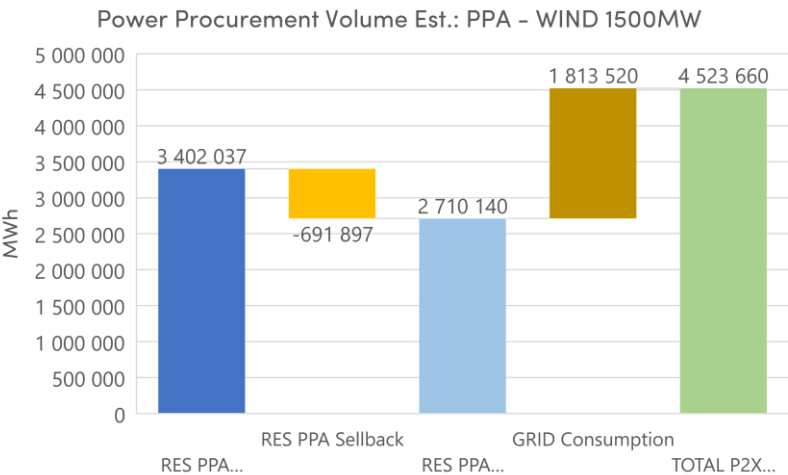
Simulated Base Case P2X Power Consumption Schedule (1500 MW Wind PPA)



Examples of considerations & analysis

Example calc.

Renewable grid



Low-carbon grid

