



Hydrogen PPAs in Germany and Europe

How do I optimise my green electricity procurement?

Introduction

Europe's efforts to achieve a climate-neutral economy are becoming increasingly concrete, and energy policy and companies are turning entire value chains upside down. Hydrogen and electricity are the two pillars for decarbonising energy supply and industry. Two particularly relevant new business areas and revenue opportunities are emerging here: the supply of green electricity via power purchase agreements (PPAs) and the production of green hydrogen. In this context, regulatory requirements have been set in Germany and Europe as to the conditions under which electrolysis hydrogen is considered "green". This seminar provides the necessary knowledge to optimise and implement green electricity procurement for electrolyser.

Target group

- Operators or suppliers of electrolysers,
- specialists and managers from the energy industry with responsibility in the area of product or business field development,
- employees in strategic management or purchasing department in the industry and
- specialists from interest groups.

Your benefit

After this workshop, you will be able to:

- classify different PPA prices and sourcing structures,
- Find PPA partners and negotiate and close hydrogen-appropriate PPAs
- develop a green electricity procurement strategy for electrolysers, and
- classify current regulatory developments.





Hydrogen PPAs in Germany and Europe

How do i optimise my green electricity procurement?

Your content

Session 1: Basics – Electricity Markets, Prices and Processes

- Price formation mechanisms in spot and futures markets
- brief overview: Intraday trading, control energy market and balancing energy
- Schedule and balancing group management

Session 2: Electricity procurement of different PPA structure

- How do I evaluate a wind and solar profile?
- How do I evaluate a wind and solar profile?
- PPA structures: baseload, pay-as-produced, pay-as-nominated

Session 3: Specifics of the green electricity purchase for electrolyzers

- the value of guarantees of origin (GoO)
- additionality, regionality and simultaneity as quality characteristics for green electricity supplies
- EU regulation and German regulation: when is electrolysis hydrogen green and what does this mean for electricity procurement?

Session 4: PPA market in Germany and Europe

- PPAs at a glance: Types, volumes and market data
- Special case: virtual cross-border PPAs
- How to find the right PPA partner?
- Case studies: current PPA prices, e. g. according to PPA Price Monitor

Session 5: On-site vs. off-site PPA: How do I optimise my overall electricity purchase costs?

- Hydrogen generation costs as a function of full load hours
- regulatory framework: additional electricity cost savings for on-site PPAs in Germany
- Case studies: Optimising green electricity procurement with on-site and off-site solutions

Session 6: Optimisation between futures vs. spot market: How do I use the flexibility of an electrolyser?

- the value of flexibility: Electrolyser as a real option
- Case studies of PPA procurement and spot market optimisation: how do I profit from low hourly prices on the day-ahead market?
- Discussion and outlook: further optimisation options on the short-term markets (including intraday and balancing energy market)

Exemplary use case

As a pioneer of the energy transition, your company or department is involved in projects to produce green hydrogen by means of electrolysis, but you also want to strengthen your team. In view of the current regulatory developments, you are wondering how the electricity supply for an electrolyser must be designed so that the hydrogen is considered "green".

For your business model, it is of course relevant to know how you can keep the electricity purchase costs low. Your team has understood the basic elements of the electricity market, but would like to gain a deeper understanding of which strategies can achieve particularly low procurement prices and which tools are needed to implement them.





Training for the energy sector

We quantify the energy transition

Training formats

Energy BrainSessions

- ▶ live online trainings
- ▶ suitable for beginners to experts
- ▶ 2 to 3 mornings depending on the course

In-house training

- ▶ comprehensive basic and advanced seminars for the energy sector
- ▶ customised according to your needs
- ▶ online or in-person

Simulation games

- ▶ realistic trading simulations for electricity trading on spot or futures markets
- ▶ online or board game version

Training formats legend

- ▶ Knowledge level: basic knowledge, special knowledge or expert knowledge
- ▶ Format: lecture or workshop
- ▶ online or in-person

Basic knowledge	workshop	online		In-person	
Basic knowledge	lecture	online		In-person	
Special knowledge	workshop	online		In-person	
Special knowledge	lecture	online		In-person	
Expert knowledge	workshop	online		In-person	
Expert knowledge	lecture	online		In-person	

About us

As independent energy market experts, we focus on the databased, practice-oriented transfer of knowledge on power and energy trading in Europe. From analysis, forecasting and modelling of energy markets and prices, as well as studies and individual consulting services, to training courses, we are here to support you.

How can we support you? Feel free to contact us.

Contact

Energy Brainpool GmbH & Co. KG
 Brandenburgische Str. 86/87
 10713 Berlin
 Germany

Phone
 +49 (0)30-76 76 54-10

E-mail
 kontakt@energybrainpool.com

Website
 www.energybrainpool.com/en

Blog
 blog.energybrainpool.com/en

LinkedIn
 www.linkedin.com/company/energy-brainpool-gmbh-&-co.-kg



www.energybrainpool.com/en
 in-house-training

