

INTERFACES BETWEEN THE ELECTRICITY AND GAS MARKETS

SEMINAR, 1 DAY

For the electricity sector, gas has long been an input factor. But the energy transition is creating new relationships between the electricity and gas sectors: surplus electricity from fluctuating renewable energies could be converted into synthetic gas and used in the existing gas infrastructure. Gas as an energy source for heating could in turn be partially replaced by surplus electricity, and vehicles will increasingly be fuelled with gas or electricity. The seminar provides basic knowledge about the electricity and gas markets, the interconnections along the value chain and possible business models between these markets.

Your contents

Introduction to the electricity market

- The structure of the different electricity markets
- The players, their interests and the regulatory framework
- The merit order and the day-ahead market as a reference market
- Balancing on the electricity market

Introduction to the gas market

- The structure of the different electricity markets
- The players, their interests and the regulatory framework
- Price influences on the gas market
- Balancing and regulation for biogas

Value chains between the electricity and gas markets

- Value creation and energy conversion in energy supply
- Principles of power-to-gas, power-to-heat, power-to-liquid, power-to-X
- Function and market roles of electrolysers and fuel cells
- Use of gas storage facilities, gas pipelines and heat storage systems

Business models between electricity and gas

- Regulatory framework
- System services: control power, control work
- Security of supply: investments in gas-fired power plants necessary?
- Business models in spot trading, clean park spread
- Participation in several markets

Future scenarios

- Comparison of different scenarios
- Benefits of power price scenarios



TARGET GROUP

- Specialists and managers from energy suppliers, consultancies, trading companies, research institutions, etc.
- Employees from business development, project management, product development or with process responsibility
- New players in the energy industry
- Representatives from politics and associations

YOUR BENEFITS

After this seminar you will be able to:

- differentiate between the framework conditions of the electricity and gas markets,
- recognise coupling possibilities between the electricity and gas markets,
- describe the use of technologies at the interface between the electricity and gas markets,
- analyse business models between the electricity and gas markets.

Do you need further knowledge in the field of flexibility and sector coupling? Then the **Batteries in the Electricity Market** seminar is the perfect supplement for you.