

BASICS OF THE ENERGY INDUSTRY

SEMINAR, 1 DAY

What are energy sources and what kinds of energy sources exist? What are energy prices composed of? And what effects do climate change and the EU emission trading system have on the energy sector? These important questions concerning the electricity and gas industry are answered in this seminar. Moreover, an overview of the legal framework of the energy industry is given.

YOUR CONTENT

Structure of the energy industry – meaning and terms

- Fossil and renewable energy sources: reserves, resources and ranges
- From primary energy sources to energy service: technical and economical processes of energy conversion
- Markets for energy sources and development of wholesale prices
- Energy sales: products, billing and price components

Electricity and gas – value chain and framework

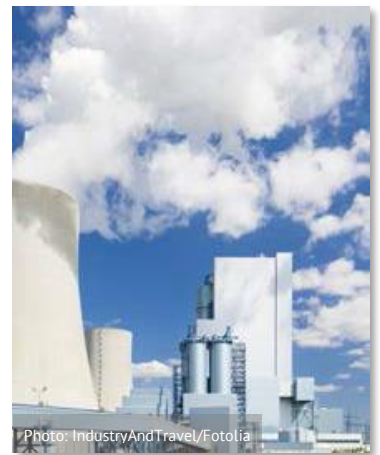
- Physical basics and terms: capacity, work, upper and lower heating value, etc.
- The value chain of energy: energy purchase, energy generation, grids, distribution and storage
- The value chain of electricity: power plant types, simultaneity of generation and consumption and balancing energy
- The value chain of gas: storage, LNG and shale gas
- Liberalisation and market roles, balancing group systematics
- Framework of the EU, in the EnWG and through defined business processes

Energy wholesale and procurement management

- From full supply to structured electricity and gas procurement
- Trading products and price-setting at the spot market
- Futures market – forwards and futures
- Basics of balancing group management and balancing energy
- SLP and RLM customers

The energy transition in Germany – significance for the energy industry

- Emissions trading: CO₂ prices and their effects
- Influence of European and national targets on the energy industry
- Expansion and promotion of renewable energies and the EEG 2017



TARGET GROUP

- Career starters in the electricity and gas industry
- Newcomers and career changers in the energy sector
- Employees and actors with reference to energy management issues
- Employees from industrial companies with significant energy consumption

YOUR BENEFIT

After this seminar, you will be able to:

- to explain the value chains of the energy industry,
- To apply their knowledge of various market segments and products in the energy industry,
- emissions trading and energy trading,
- to conduct technical discussions on the challenges of the energy system transformation.

Combined with **electricity industry** and **gas industry**, this seminar can be expanded to a **comprehensive 3-day-seminar**.