Simulation games energy trade
SIMULATION GAMES

TRADING COMPETENCE AT THE ELECTRICITY AND GAS MARKET

Our Simulation Games as board game, computer game or online version are the ideal learning method for the practical adaptation of theoretical knowledge of electricity and gas trading. In practice-oriented trade simulations, the participants’ trading and market competence is trained by deploying specialised terminology.

YOUR BENEFITS

- Intensification of learning success by interactivity and independent exercises
- Strengthening of team building
- Practice-oriented due to competitive character
- Reproduction of realistic scenarios and results
- Practical application of theoretical knowledge
- Ideal basis for the detailed implementation of trading activities at the electricity and gas market

Our Simulation Games are the optimal complement to theoretical seminars on electricity and gas trading. In the combination of seminar and Simulation Game, contents are adapted to your requirements.

DIFFERENT VERSIONS FOR YOUR NEEDS

Simulation Games are available in different versions:

- **Board game**: Ideal for team building and suitable for events
- **Computer-based Simulation Game**: Enhances competitive character and particularly realistic trading simulation
- **Online Simulation Game**: Independent of time and place of conduct, licence packages for companies and research institutions available

A trainer from Energy Brainpool leads through the game. Energy Brainpool provides the complete game equipment for the entire duration of the game.

Depending on the number, participants play in teams (board game) or individually against each other in competitive mode. The maximum number of players in board games is 20 persons.

The conduct of Simulation Games is designed for one day. In combination with theoretical seminars or further training services the duration time can be adapted in a flexible manner.

Simulation Games are particularly suitable for the

- Introduction of new employees
- Training of employees and departments
- Strengthening of team building
- Complementation of events and internal activities
- Practical refreshment of theoretical knowledge

TARGET GROUP

- Newcomers and career changers with ties to energy or gas trading, distribution, procurement
- Direct marketers
- Companies with significantly high energy consumption
- Players from politics and associations as well as journalists
- Consulting companies
- Universities and institutes

TOPICS

- Intraday
- Futures Trading
- Gas Trading
- Cross-border
- Prop-trading
SIMULATION GAME INTRADAY

POWER PLANT OPTIMISATION AT THE SPOT MARKET

The Simulation Game Intraday simulates trading at the spot market in form of a board game. Players market a power plant fleet of conventional and renewable plants. Based on the structure and significance of the merit order, participants learn to cover their load profiles and to submit buy and sell offers. In addition, they get acquainted with price setting in different sub-markets.

YOUR CONTENT

Power plant scheduling
- Team-owned power plant portfolio and development of the merit order
- Dispatch of power plants according to marginal costs
- Calculation of the contribution margin
- Integration of injected electricity from renewable energies

Control power market
- Determining the demand for control power
- Consideration of expected revenues as well as market conditions (pay-as-bid)
- Bid submission: Capacity and energy price

Day-ahead market
- Placement of bids for the day-ahead auction at EPEX Spot
- Portfolio optimisation by means of shut-downs and additional purchases

Intraday market
- Selling surplus power plant capacities
- Additional purchases or sales as reaction to unscheduled events
- Balancing group accounting (if required, payment of balancing energy)

TARGET GROUP

- Experts and executives from the departments grid management, corporate planning and development, procurement, distribution and trading
- Direct marketers and operators of renewable energy plants
- Investors and project developers
- Legal and corporate consultancies
- Representatives from politics and associations

YOUR BENEFIT

- Interactivity and intensified learning effect by practical application of theoretical knowledge
- You get acquainted with price setting in different sub-markets
- You learn to asses trading reactions of other players and to react on it
- Practical relevance due to adapting of trading strategies to events in the market

This Simulation Game is the ideal complement to seminars
- Introduction to the Electricity and/or Energy Industry
- Introduction to Electricity Trading
- Introduction to Short-term Markets
- Trading and Retailing of Renewable Energies
SIMULATION GAME FUTURES TRADING

POWER PLANT MARKETING AT THE FUTURES MARKET

In the board version of the Simulation Game Futures Trading, players assume the task of procuring electricity for a given distribution load profile. They have to recourse generation capacities in the form of a coal power plant or electricity supplies (forwards).

Additionally to electricity trading, players learn how to manage a coal inventory and have to react to price developments in various commodity markets.

YOUR CONTENT

Marketing of a power plant
• Introduction to OTC trading
• Sale of electricity for one quarter
• Purchase of fuel for one quarter
• Calculation of complete costs of a power plant

Dealing with price risks
• Sale of electricity with simultaneous purchase of fuel for one year
• Adherence to risk parameters
• Dealing with counterparty risks

Extension of the trading period and unscheduled events
• Simultaneous trading of several futures market products with different maturities
• Trading of four quarterly contracts
• Hedging of risks
• Arbitrage and speculation

TARGET GROUP

• Experts and executives from the departments grid management, corporate planning and development, procurement, distribution, trading
• Direct marketers and operators of renewable energy plants
• Investors and project developers
• Legal and corporate consultancies
• Representatives from politics and associations

YOUR BENEFIT

• Interactivity and intensified learning effect by practical application
• You get acquainted with price setting and bid submission in the futures market.
• You learn to adequately assess counterpart and market price risks
• You get an overview of hedging strategies for fuel purchase and electricity sale

This Simulation Game is the ideal complement to seminars Introduction to the Electricity Industry and/or Energy Industry, Energy Trading and/or Futures Market, Trading and Retailing of Renewable Energies and Introduction to Risk Management in Energy Trading.
SIMULATION GAME GAS TRADING

MANAGEMENT OF A GAS PORTFOLIO

In the Simulation Game Gas trading in its version as board game, players manage a gas portfolio over a period of four quarters. The aim of the portfolio management is to fulfil long-term supply contracts and to maintain the balance equilibrium while optimising profits. Participants learn to assess flexibilities in terms of economic efficiency. Furthermore, the adequate reaction of unexpected events in the market is trained and resulting price influences are discussed.

YOUR CONTENT

Marketing of a gas portfolio
- Getting acquainted with trading of natural gas
- Covering demand at different temperatures
- Use of storages, ToP contract of an exchange platform

Dealing with price and volume risks
- Dealing with supply contracts linked to the oil price
- Covering a load profile for one year
- Balancing volume risks at temperature deviations

Unscheduled events and portfolio optimisation
- Simultaneous trading of several futures market products with different maturities
- Use of storages for arbitrage
- Optimal management of flexibilities
- Hedging of open positions
- Procurement of additional storage capacities

TARGET GROUP

- Experts and executives from the departments grid management, corporate planning and development, procurement, distribution, trading
- Investors and project developers
- Legal and corporate consultancies
- Representatives from politics and associations

YOUR BENEFIT

- Interactivity and intensified learning effect by practical application of theoretical knowledge
- You learn the practical dealing with oil price couplings and flexibilities as well as temperature dependencies in the distribution load profile
- Market-oriented training by reaction to unexpected events

This Simulation Game is the optimal complement to seminars Introduction to the Gas Industry and Energy Industry, Introduction to Gas Trading as well as E-learning Fundamentals of the Gas Industry.
COMPUTER-BASED SIMULATION GAMES

REALISTIC TRADING SIMULATIONS

Computer-based Simulation Games teach mechanisms of electricity trading in the European market. The Simulation Games have a particularly realistic character due to the competitive situation and acting under time pressure. Interactivity, varying degrees of difficulty as well as the integration of unexpected situations in the market enhance the learning effect.

Our computer-based Simulation Games are offered in German and English as face-to-face or online courses. We offer package licences with flexible licence periods to companies and institutes.

SIMULATION GAME SHORT-TERM
- Preparation and submission of day-ahead bids
- Intraday power plant optimisation
- Balancing of schedule deviations
- Reaction to loading/unloading ramps and technical restrictions
- OTC trading and arbitrage between markets

SIMULATION GAME LONG-TERM
- Long-term trading with electricity, fuel and emission certificates
- Hedging of open positions
- Storage, credit and emission management
- Credit limits and credit risks

SIMULATION GAME CROSS-BORDER
- Getting acquainted with fundamental market mechanisms
- Operation of power plants according to merit order
- Arbitrage trading between different markets
- Optimisation of the international power plant portfolio under time pressure

SIMULATION GAME PROP-TRADING
- Introduction to proprietary trading
- Data acquisition and data analysis in order to assess market development
- Comparison of different forecast methods: Chart analysis vs. fundamental analysis
- Use of options to generate additional profits

TARGET GROUP
- Experts and executives from the departments grid management, corporate planning and development, procurement, distribution, trading
- Direct marketers and operators of renewable energy plants
- Investors and project developers
- Legal and corporate consultancies
- Representatives from politics and associations

YOUR BENEFIT
- Energy Brainpool provides the complete game equipment as well as computer and software for the duration of the Simulation Game
- Detailed introduction to the software and supervision by an instructor
- Licence packages for companies or research institutions

All computer-based Simulation Games can be combined as detailed training event Energy Trading Fundamentals. In 3 days participants learn mechanisms and strategies of short- and long-term trading in a comprehensive manner.
SELECTED REFERENCES ON OUR TRAINING

Energy Brainpool conducts detailed trainings about trading at electricity spot and future markets as well as at spot and future markets for gas, CO₂ and coal on behalf of the European Energy Exchange (EEX).

Energy Brainpool provides training courses for the RWE Development Center, among others by means of Simulation Games on energy trading and seminars on portfolio management as well as sales.

Energy Brainpool provides certification courses "Portfolio Management in Energy Trading" for GELSENWASSER AG.

"We use Energy Brainpool’s computer-based Simulation Games as a practical support to our study lectures. Especially the realistic trading simulations, the interactivity and the competitive character of the games enhance the understanding of trading and the motivation of our students.“

Prof. Dr. Marc-Oliver Otto, Faculty of Mathematics, Natural and Economic Sciences, University of Applied Sciences Ulm

"Our employees have rated your event positively without exception (...). The event has been extremely well prepared and was also conducted in a professional manner.“

Yvonne Grimmer, Head of Portfolio Management & Trading, Energy2market GmbH

"Thank you very much for the highly successful in-house event at our company. All participants liked it and are now well-informed.”

Stefanie Selms, Stadtwerke Parchim GmbH

"I like to attend the open seminars offered by Energy Brainpool, because interesting, practice-oriented topics currently influencing the market are presented and discussed in a competent manner. In terms of topic selection, Energy Brainpool is definitely unique.”

Carsten van Plüer, Consultant for the electricity industry, VIK e. V.
ABOUT ENERGY BRAINPOOL

Energy Brainpool is the independent market specialist for the energy sector with a focus on electricity and energy trading in Europe. Our expertise includes the analysis and fundamental forecast of electricity prices, individual consulting offers and studies as well as training and expert courses for the energy sector. We combine knowledge and competence with long years of practical experience in the area of controllable and fluctuating energies.

OUR PRODUCTS AND SERVICES

Analysis
- Fundamental energy market model Power2Sim for modelling electricity prices until 2050
- Spot price forecast for the day-ahead auction at EPEX Spot
- Scientific studies on the energy market design, the development of electricity prices and price components as well as the influences of renewable energies
- Individual electricity price scenarios until 2050
- Trend forecast of the load curve for the optimisation of power plant scheduling

Individual consulting approaches
- Trade strategies, risk, portfolio and procurement management
- We combine knowledge and competence with practical experience in the area of controllable and fluctuating energies
- Electricity trading and marketing

Training
- Open and in-house seminars, workshops, management trainings on current topics in the energy sector
- e-learning courses on the basics of electricity, energy and gas industry as well as power plant technology
- Practice-oriented Simulation Games for energy trading
- Workshops on the energy sector and influences of the energy turnaround