AFRY

Discover BID3 - Understand tomorrow's power markets, make better decisions today.

BID3 is AFRY's electricity market modelling platform, designed to help energy-market participants understand how prices, generation, demand and system constraints could evolve under different futures.

From short-term market analysis to long-term scenarios, BID3 enables you to explore complex market dynamics, test assumptions and make more informed commercial, investment and policy decisions.

The decisions BID3 helps you make

Investment and asset valuation

Understand how market developments could affect asset value, revenues, and investment risk.

PPAs and portfolio analysis

Assess contract and portfolio value across different market and price scenarios.

Policy and system planning

Test the implications of different policy, market design, and system development scenarios.

Trading and risk

Explore how weather, outages, generation availability and changing systemconditions could affect short-term markets.

Strategies and future technologies

Evaluate the potential role and value of storage, flexibility, hydrogen, electrification, and new generation.

Networks and interconnection

Understand the impact of transmission constraints, interconnection, and changing power flows on market outcomes.

The modelling engine behind AFRY's market intelligence

BID3 underpins AFRY's power-market analysis and forecasts across more than 70 markets.

The same modelling platform used by AFRY's own market experts is available to clients, combining sophisticated simulation capabilities with AFRY data, scenarios, and market expertise.

Covered by AFRY market analysis

70+ markets

Receiving AFRY market projections

700 clients

Using BID3 directly

30+ companies

Why BID3?

Start with a credible market view

Use AFRY datasets and scenarios as a starting point, helping you begin analysis quickly without building every market assumption from scratch.

Understand weather-driven market risk

Model renewable output using detailed historical wind and solar data, supported by more than ten years of consistent weather backcasts.

Model the complexity that matters

Represent generation, renewables, storage, hydro, demand-side flexibility, reserves, interconnection, networks and emerging technologies within one modelling environment.

Scale analysis to the problem

Run BID3 locally for everyday analysis or scale demanding simulations through high-performance cloud computing.

Use one model from short term to long term

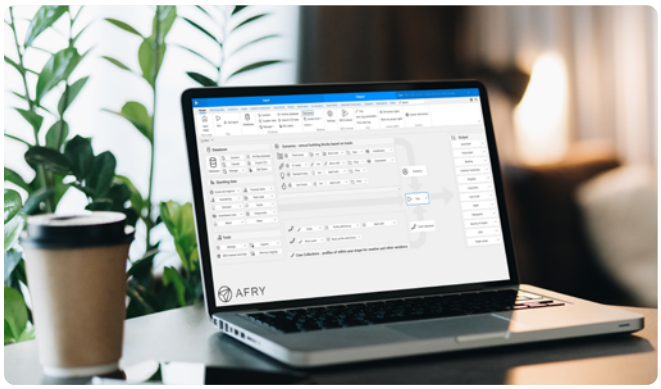
Apply the same platform to near-term trading and risk analysis, asset valuation and multi-decade investment or portfolio scenarios.

Combine software with AFRY expertise

BID3 is developed, supported and used by AFRY's power-market specialists around the world, giving users access not only to the model but also to the market expertise behind it.

Powerful modelling capabilities

BID3 brings detailed market, technology, weather, and network modelling into one flexible environment.



Market simulation

- Day-ahead, intraday and balancing-market modelling
- Dispatch using linear or mixed-integer optimization
- Sub-hourly modelling with resolution down to one minute
- Co-optimisation of energy and reserve requirements

Generation and flexibility

- Detailed thermal plant dynamics
- Battery and storage modelling
- Demand-side flexibility
- Electric vehicles and flexible heat demand
- Combined Heat and Power modelling

Renewables and weather

- Hourly wind and solar generation profiles
- Detailed historical wind-speed and solar-radiation data
- Consistent weather-pattern modelling across markets

Hydro

- Detailed reservoir and hydro modelling
- Stochastic dynamic programming approaches including SDP and SDDP
- Fully optimised hydro modelling options

Networks and interconnection

- Interconnector modelling using NTCs
- Flow-based market coupling
- PTDF and nodal modelling
- Transmission constraints and redispatch

Future power systems

- Hydrogen and electrolysis
- New generation technologies
- Biomass CCS
- System adequacy and Loss of Load Expectation analysis

Built for complex questions

BID3 can support analysis ranging from individual asset decisions to whole-market and multi-country studies.

Its flexible architecture allows users to build and test scenarios, optimise future capacity development, and examine the interaction between generation, demand, networks, weather, and market design.

The Auto Build functionality can also support long-term scenario development by optimising new build, retirement and mothballing decisions.

What BID3 gives you

A powerful modelling platform

for analysing increasingly complex electricity markets.

A consistent framework

for short-term and long-term market questions.

High-quality market data and scenarios

to help you get started quickly.

Detailed representation of future power systems

including renewables, storage, flexibility, networks, and emerging technologies.

Access to AFRY market expertise

from specialists who actively use BID3 in client work around the world.

Trusted by energy-market leaders worldwide

BID3 is used by transmission system operators, utilities, asset owners, traders, investors, and equipment manufacturers around the world. It is also the modelling and analytics backbone behind AFRY's own power-market forecasts and advisory work.

This combination of proven modelling technology, market data, and expert support enables clients to explore complex market questions with confidence. Talk to our team about BID3 or request a demonstration.