

# Energy Volume Forecast

Increase operational efficiency and reduce risks with cutting-edge machine-learning based forecasts for energy consumption, production and flows. Benefit from our easy to integrate, transparent and accurate forecasting technology.

## Your challenge

In an energy world where short-term uncertainty is the new standard, the ability to integrate powerful forecasting technologies is becoming a must have to sustain efficient operation on electricity markets for various types of actors:

- ✓ Industrial sites for load forecasting and nomination process
- ✓ Utility for production and consumption forecast at portfolio level
- ✓ System operators for system-wide balance and interconnection flow forecasts

Different realities but a shared need to accurately forecast MW in weekahead, Day-ahead and intraday markets, understanding the drivers behind the forecast and the confidence associated to it.

## Our solution

N-SIDE forecasting platform combines the best of machine-learning technologies, such as boosted decision trees, with the deep N-SIDE expertise in the energy sector.

This combination not only allows to optimize the accuracy of our forecasts above industry standard but also to offer transparent forecasts, avoiding the black-box effect and facilitating the interaction with the different stakeholders both internally (*such as management*) or externally (*such as regulator*).

Furthermore, recognizing the need to cover different level of risk appetite, a probabilistic version of our forecasts is also proposed, built on the most recent research in the Machine Learning community.



Utility



System Operators



Availability



Power volume forecast



Natural gas volume forecast

**Accuracy**  
Above industry standard

**Transparency**  
No Black box

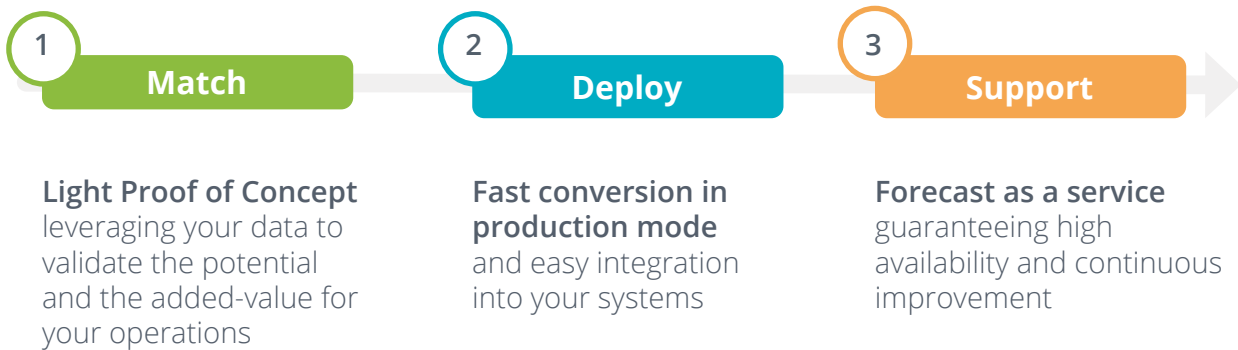
**Reliability**  
Available when you need it



## High Value, Low Effort

### A step by step approach focusing on value-creation ...

Our Volume forecasts are proposed via a three steps approach, maximizing the value with minimal effort:



### ... EASY to ACCESS and INTEGRATE...

The N-SIDE Electricity Market Arbitrage Forecast are available on a user-friendly platform that gives you the possibility to adapt the tool in function of your own business and its specificities. You will also benefit from a clear visualization of your performances. The same platform is supporting all other forecasting applications of N-SIDE's, which enables you to access all your forecasters in one place.

#### GUI

The N-SIDE Forecasting platform benefits from an easy to use graphical interface. It includes: a live visualization of the forecaster, performances graphs and exports functions (*xls and json*).

#### API

Our forecast results are by default available through a secured API connection, making it super easy to integrate in your existing systems and operational processes.

#### INTEGRATION

The N-SIDE Forecasting platform is compatible with standard communication protocols (*e.g. http(s), ftp(s)*) and standard formats (*csv, json, xml, xls, and so on*). The connection with your existing systems is thus seamless.

#### ALERTING

Make the most of our alerting system and get notified directly in your mailbox of the relevant opportunities for your business. Our alerting system can be customized in order to reflect your business constraints. Define your thresholds, risk exposure levels, reactivity time, ect., and capture the value of the most critical situations.

