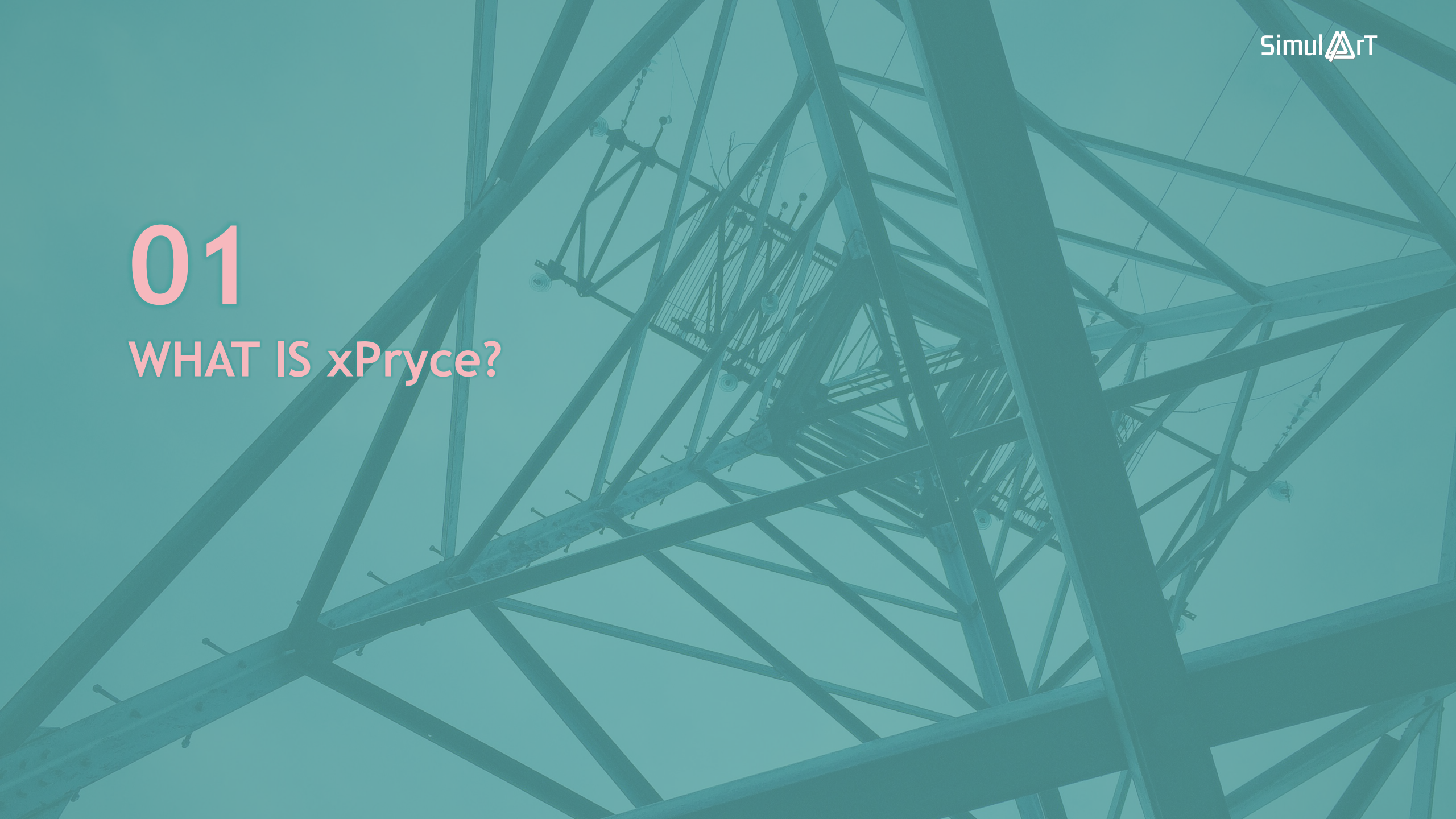
SimulArT

GIVING VALUE TO YOUR ENERGY

2026

01

WHAT IS xPryce?



xPryce

A flexible, updated, detailed, robust and online tool to simulate the **hourly evolution** of MIBEL (Spain and Portugal) and France electricity markets

It analyzes medium- to long-term horizons

It is a **Fundamental Model** that simulates the clearing of the day-ahead market considering all the relevant variables and peculiarities

WHAT INFORMATION DOES xPryce CONSIDER?

Regulation and structure of the electricity market

Technical restrictions of the different production technologies

If we knew what is about to happen in the following years:

Installed capacity

Of all technologies (solar PV, solar thermal, wind, nuclear, CCGT, storage, hydrogen, …)

Demand

Demand, self consumption, electric vehicles, data centers, …

Commodities

Gas prices, CO_2 emissions, …

Interconnexions

Capacity and prices of interconnexions

With accurate information, we would know with great precision the future prices

HIGHLY PARAMETRIZED

HOURLY DATA

- Demand
- Wind
- Solar
- Interconnections prices

MONTHLY DATA

- Commodities prices
- Interconnections
- Installed capacities
  PV, Wind, Nuclear, Coal, CCGT, Storage, Pumping, Batteries…

OTHER PARAMETERS

- Hydro
- Fees and Taxes

xPryce

RESULTS

- Price profile in the simulation horizon
- Productions of each technology and country

24h
Hourly granularity

HOW DOES xPryce MODEL THE ELECTRICITY MARKET?

Hourly simulation of MIBEL balancing:

- **Thermal power plants:** nuclear, gas, coal, modeling start-ups, shutdowns, technical minimums, no-load and variable costs, emission costs, etc.
- **Hydropower plants:** reservoirs, run-off-river, pumping
- **Renewable generation:** wind onshore and offshore, solar, solar thermal
- **Interconnections:** capacity and pricing
- **Flexible demand:** industrial, domestic, hydrogen, data centers
- **Storage systems**

xPryce® is essential for the **strategic planning** of any electric company, as well as for **evaluating and optimizing investments** in generation plants or assessing risks and contracts

Users can **modify parameters** in the model, which allows to generate **as much scenarios as desired** with their **own view**

Perform your own:

- Pool price forecast
- Sensitivity analysis
- Capture ratio studies

A large number of parameters can be modified to create **plenty of scenarios**

WHY xPryce?

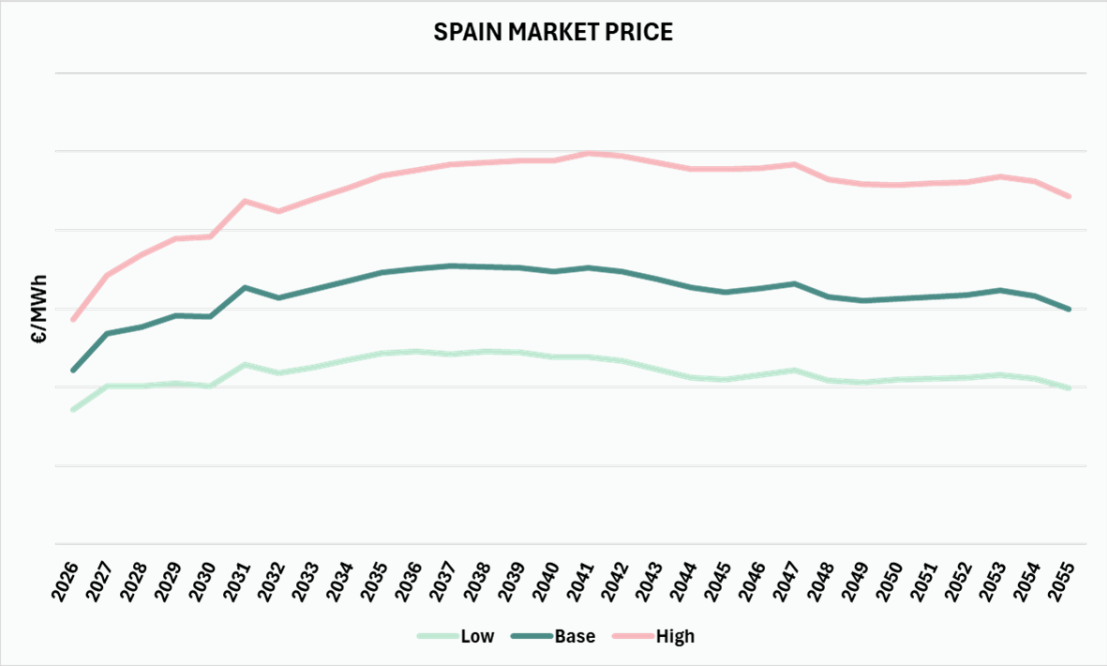
The xPryce® team is well informed constantly with the latest news that may affect the electricity market. This allows us to provide users with a **Base Case scenario** adjusted to the reality of each moment.

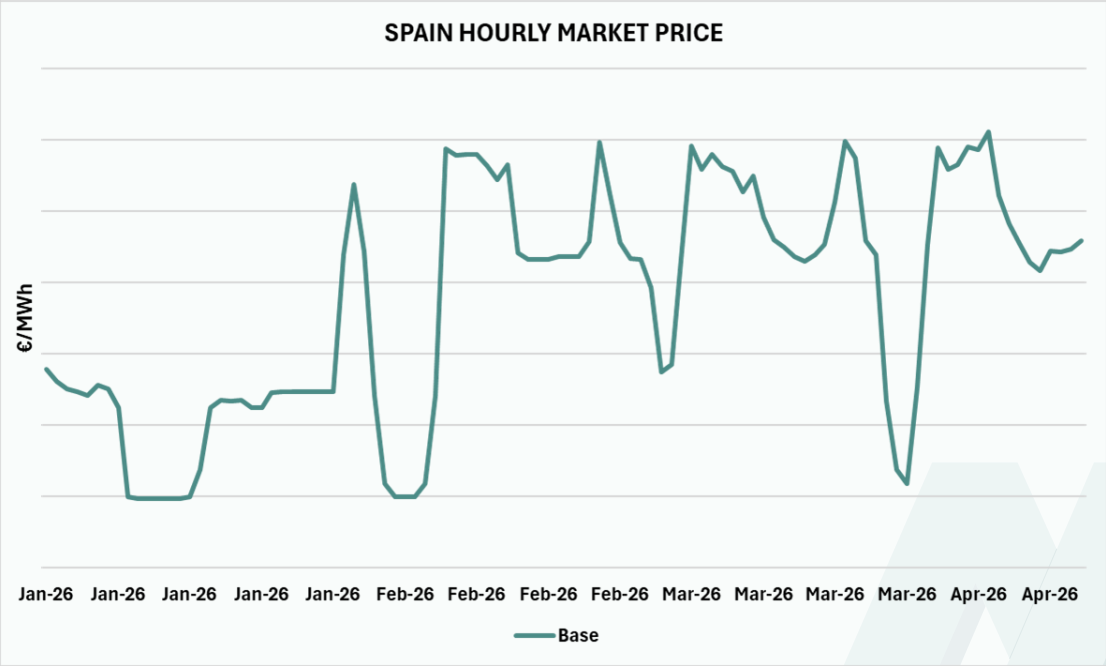
xPryce® works online, which frees up space on the machine you are working on

02

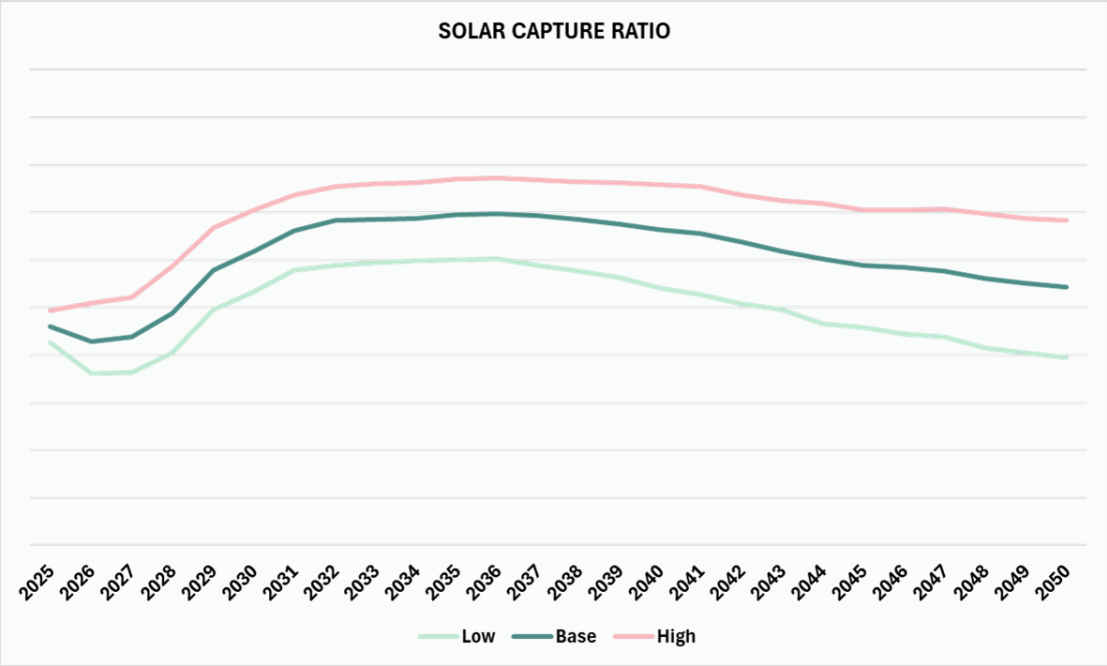
RESULTS OBTAINED WITH xPryce

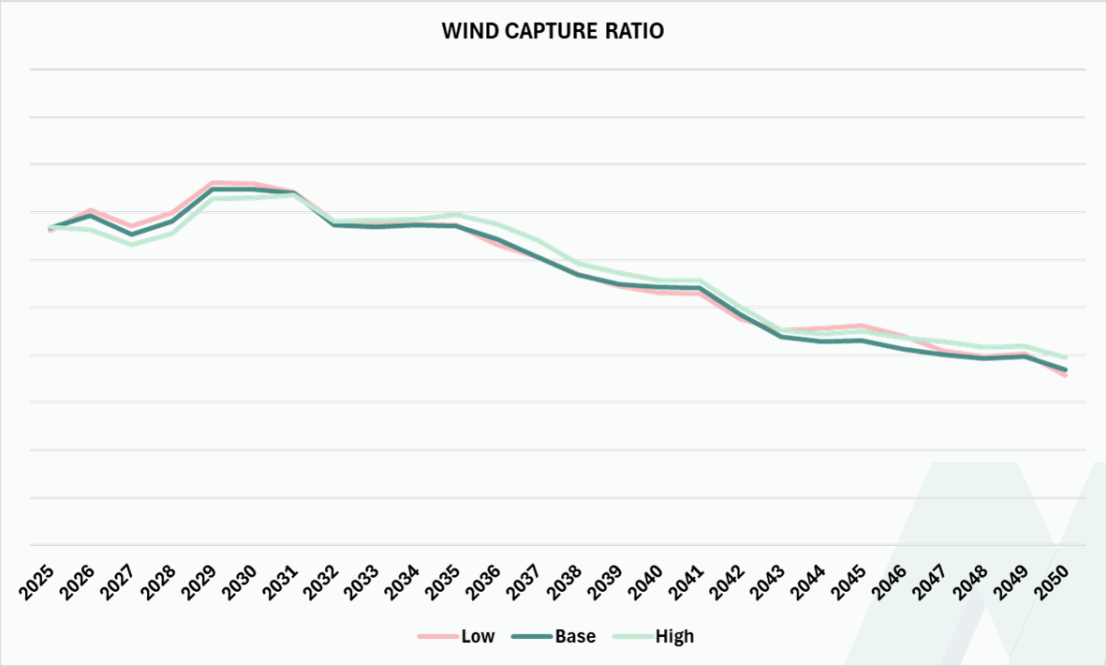
PRICE PROFILES



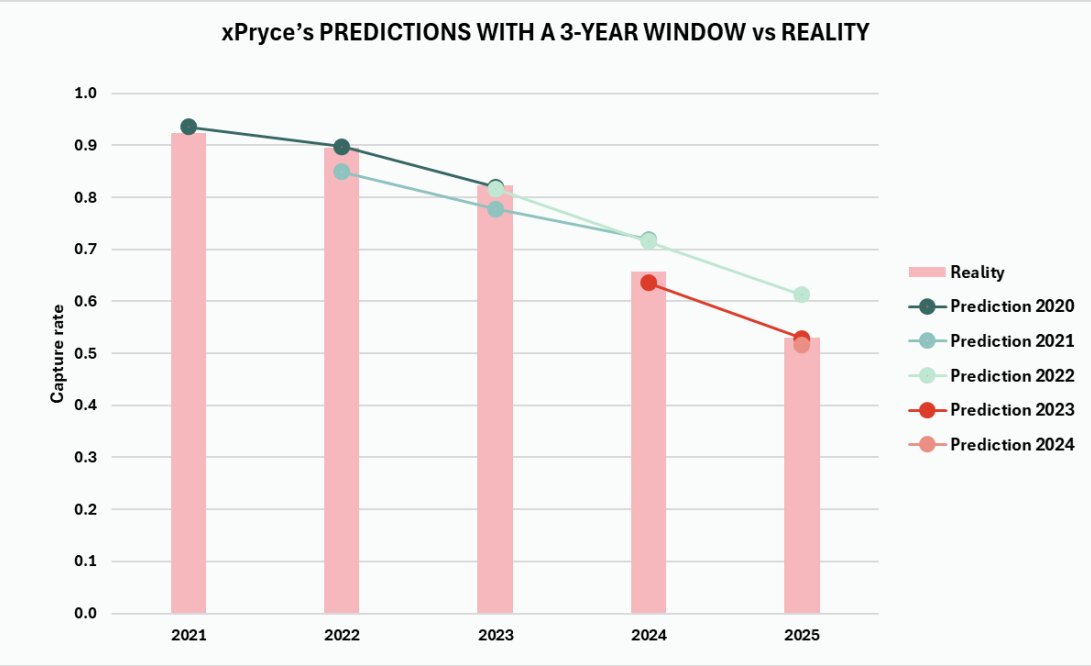


RENEWABLE CAPTURE RATIOS





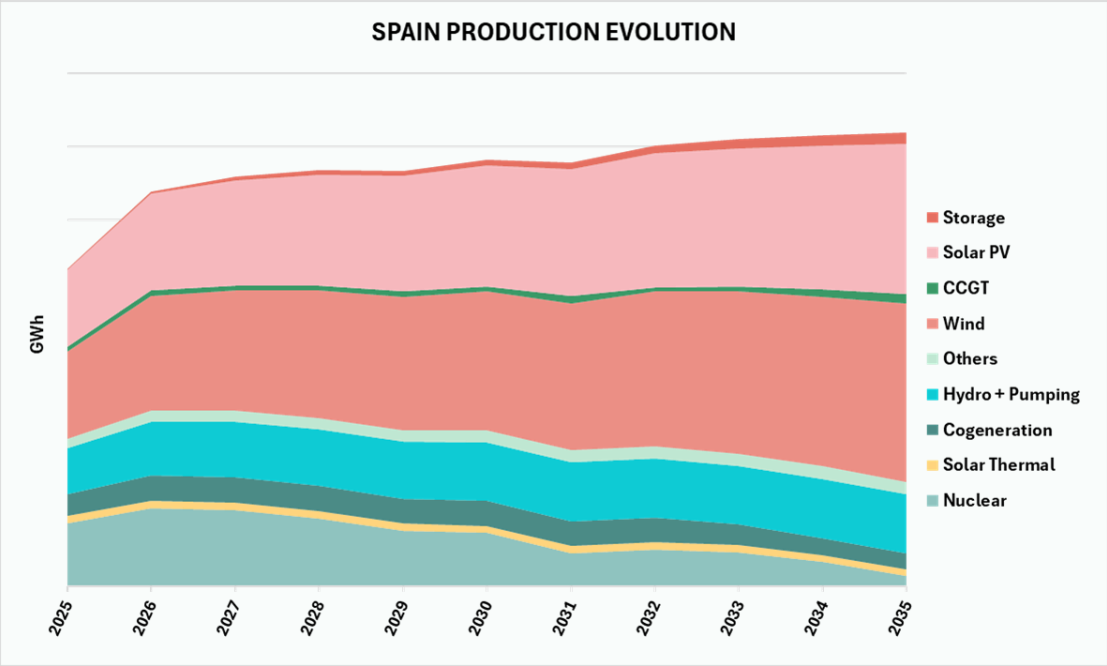
CAPTURE RATIOS AND PRICES: BACKTESTING

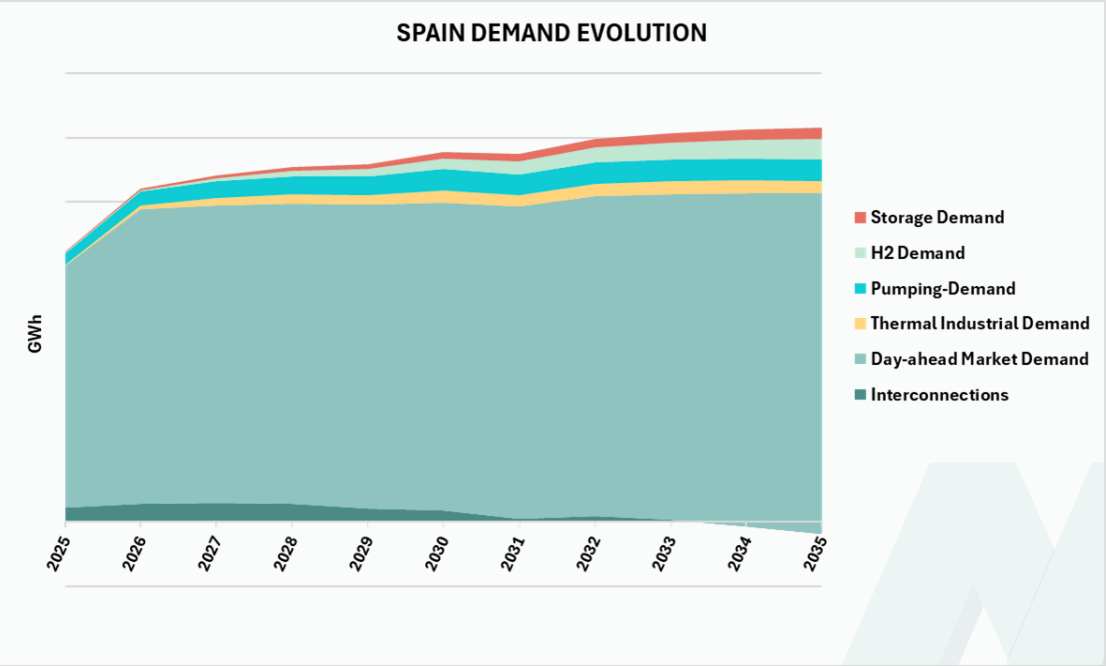


GREAT PRECISION IN xPryce PREDICTIONS

xPryce is predicting with great precision the solar ratio with a 3-year window when using our base case scenario

GENERATION MIX: hourly granularity





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