

# GIVING VALUE TO YOUR ENERGY

The logo for Pryce, featuring a stylized 'X' icon followed by the word 'Pryce' in a bold, sans-serif font.

**X Pryce**

01

WHAT IS xPryce?

# 1 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

# 1 WHAT IS xPryce?

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<sub>2</sub> emissions, ...



**Interconnexions**

Capacity and prices of  
interconnexions

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

# 1 WHAT IS xPryce?

## 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

### RESULTS

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

24h  
Hourly granularity

# 1 WHAT IS xPryce?

## 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**

# 1 WHAT IS xPryce?

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.

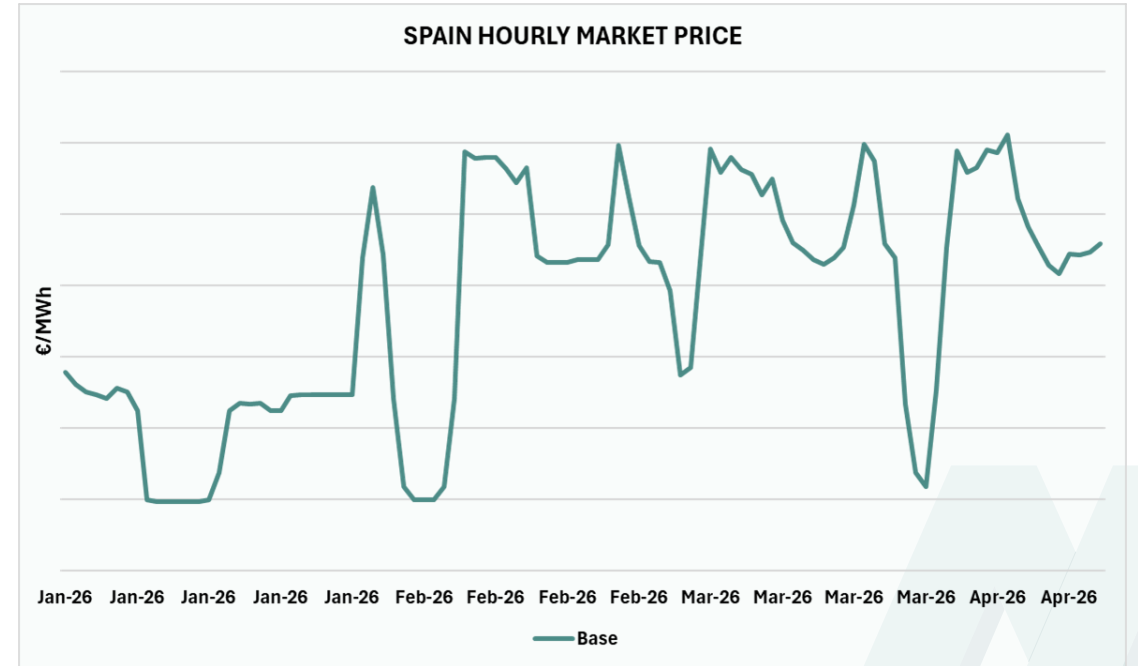
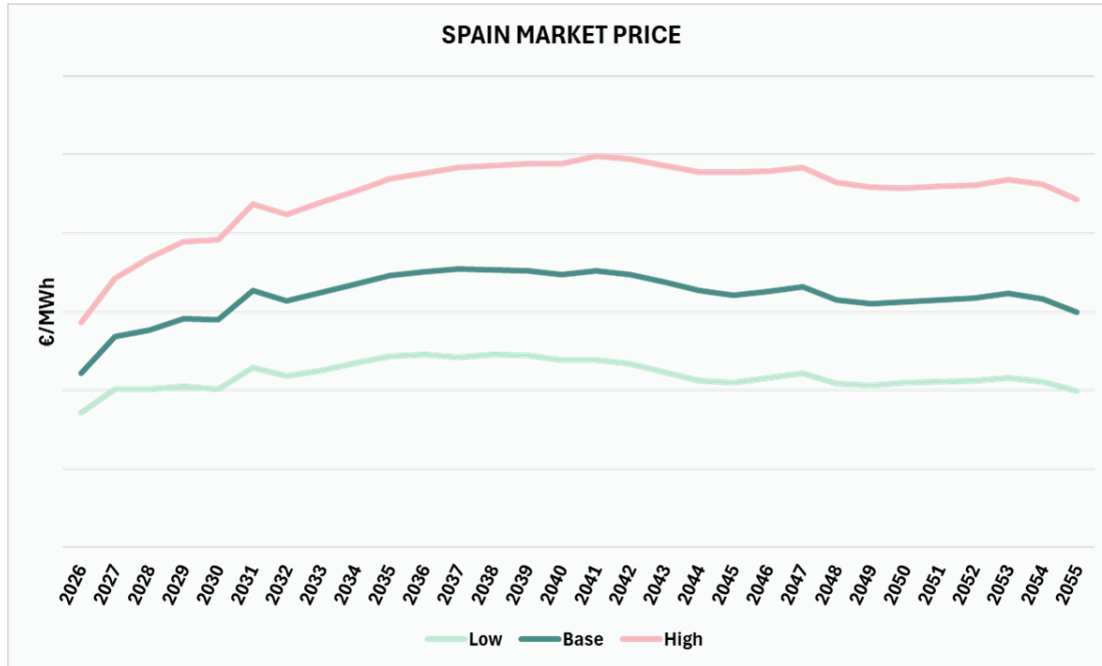
xPryce® works online, which frees up space on the machine you are working on

02

RESULTS OBTAINED  
WITH xPryce

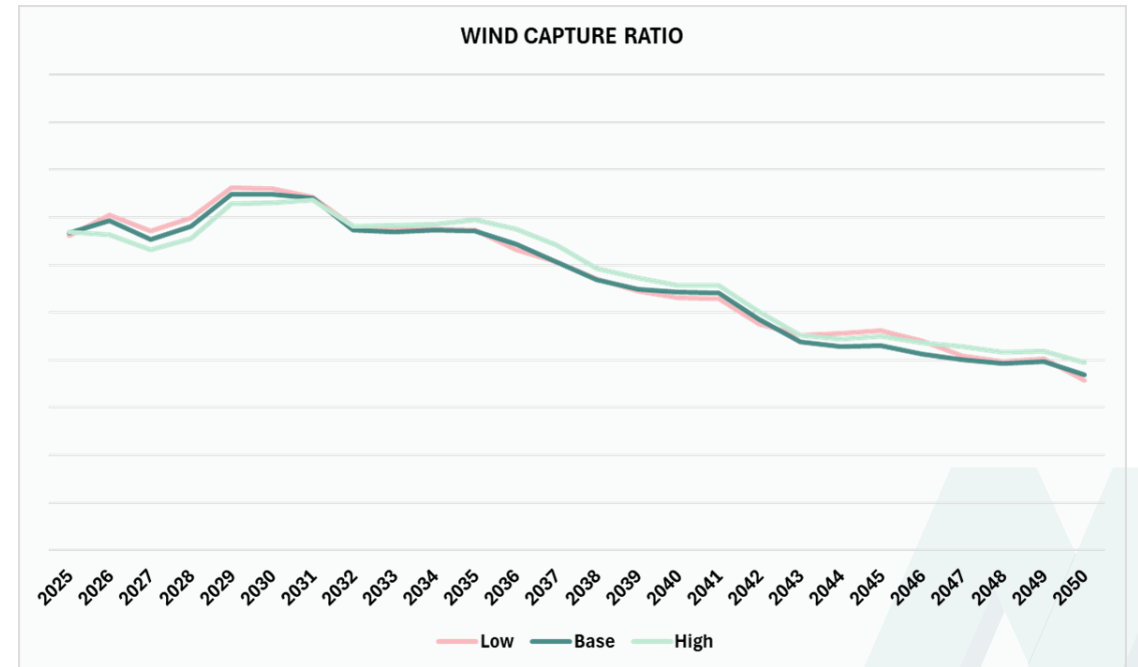
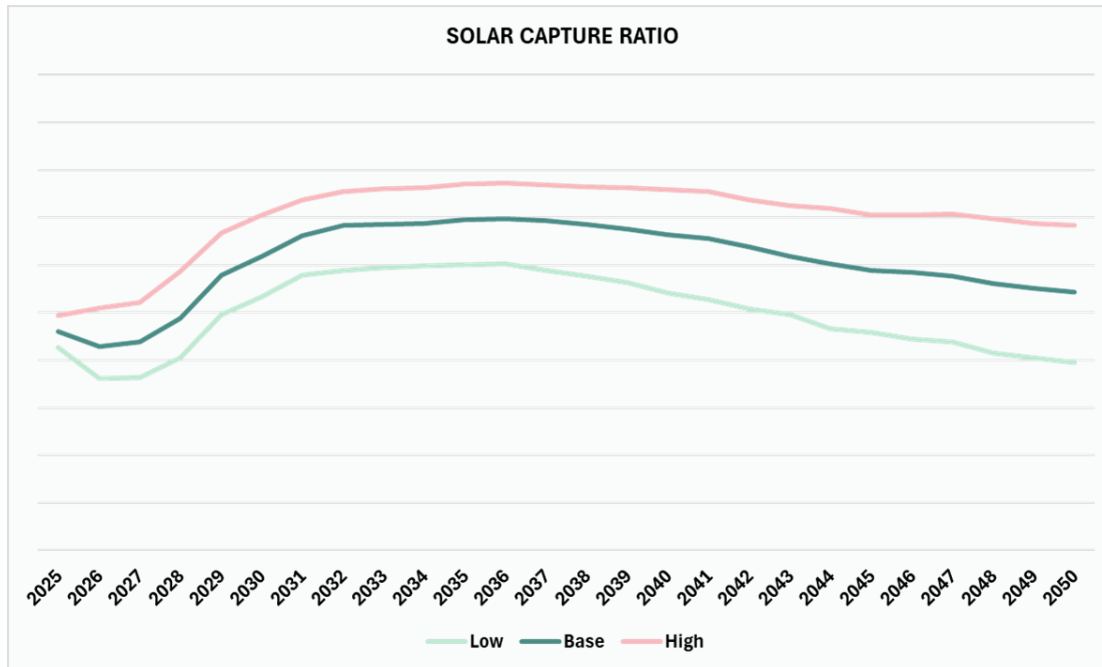
## 2 RESULTS OBTAINED WITH xPryce

### PRICE PROFILES



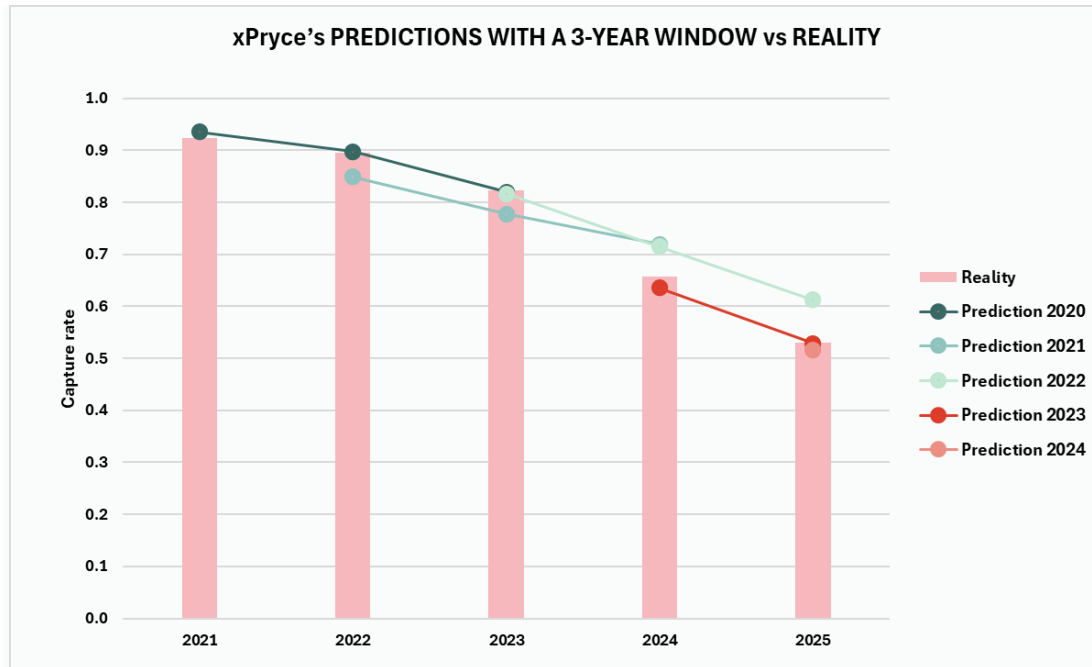
## 2 RESULTS OBTAINED WITH xPryce

### RENEWABLE CAPTURE RATIOS



## 2 RESULTS OBTAINED WITH xPryce

### CAPTURE RATIOS AND PRICES: BACKTESTING

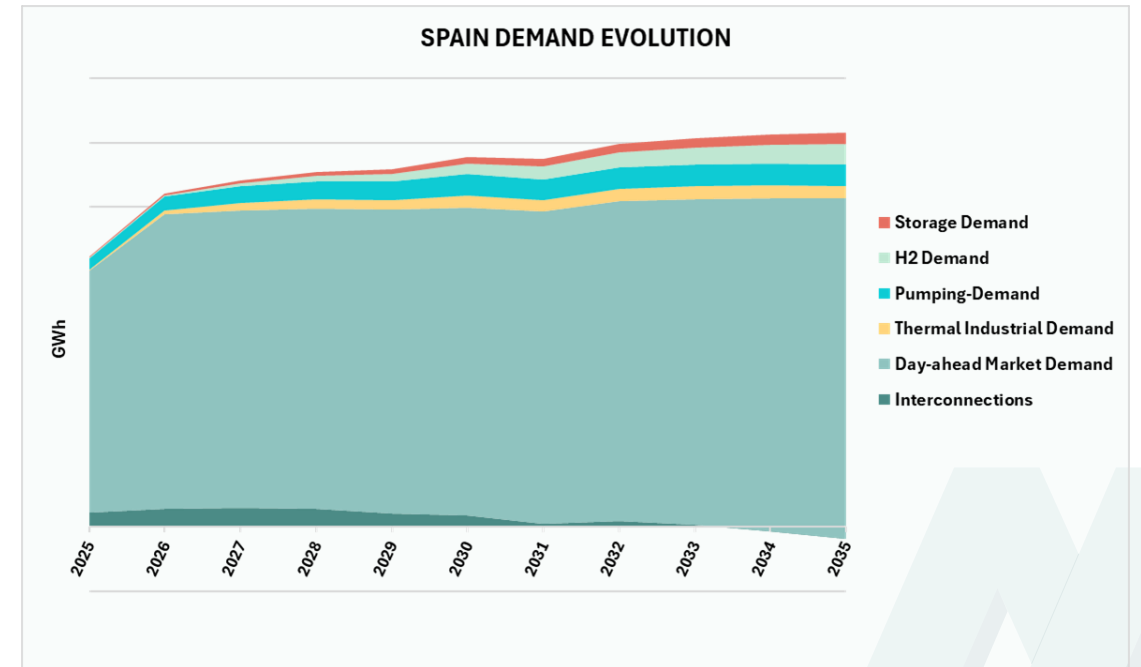
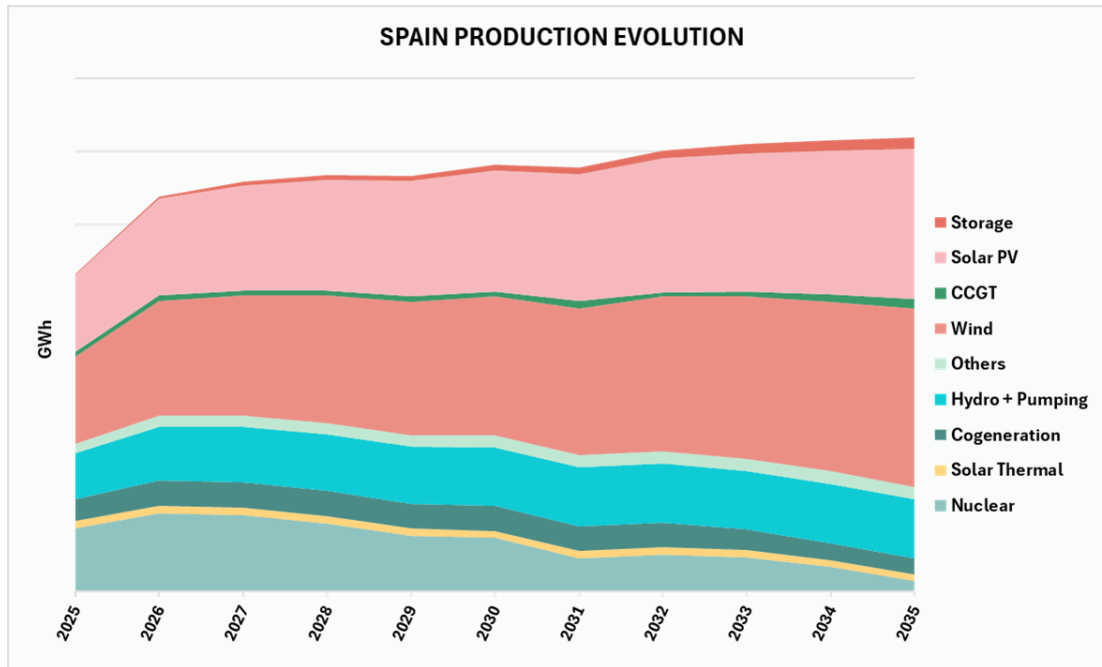


### GREAT PRECISION IN xPryce PREDICTIONS

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

## 2 RESULTS OBTAINED WITH xPryce

### GENERATION MIX: hourly granularity



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