

The Slovak Power Market: Key Trends and Challenges

New Market Service



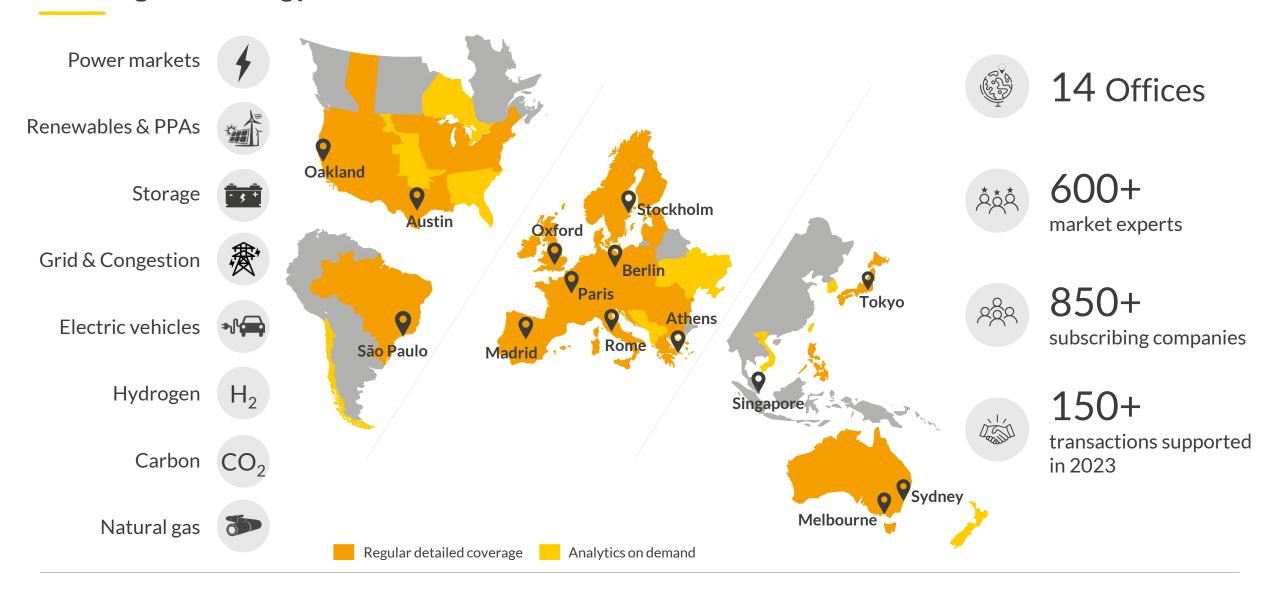
Agenda



- I. About Aurora
- II. Key trends in the Slovak power market
- III. Aurora's Power & Renewables Forecasts offering in Slovakia

Aurora provides market leading forecasts & data-driven intelligence for the global energy transition

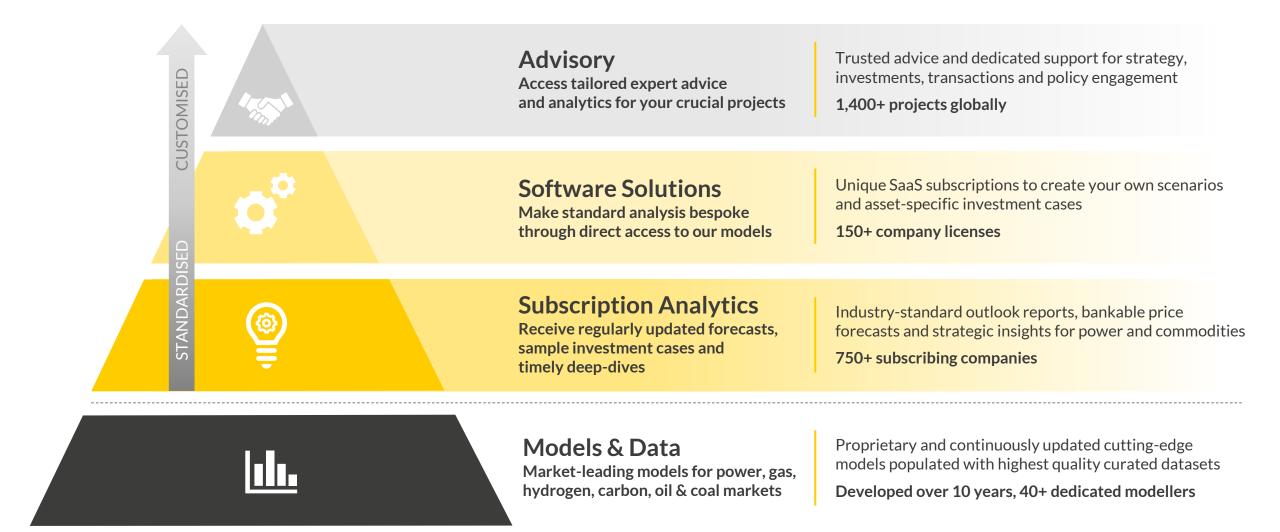




Source: Aurora Energy Research

Our market leading models underpin a comprehensive range of seamlessly integrated services to best suit your needs





Source: Aurora Energy Research 4

We work with a very broad range of clients ... their constant challenge keeps us up on our toes and ensures our independence

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"With its capabilities, intellect and with its credibility Aurora plays an essential role bringing the dialogue [in the global energy transition] to a different plane"

Ben van Beurden, CEO, Shell



"Aurora analysis and the provision of reliance was crucial for our debt funding. Their ability to explain market logics and revenue streams was vital for this successful financing."

Jeremy Taylor, Director, Green Frog Power







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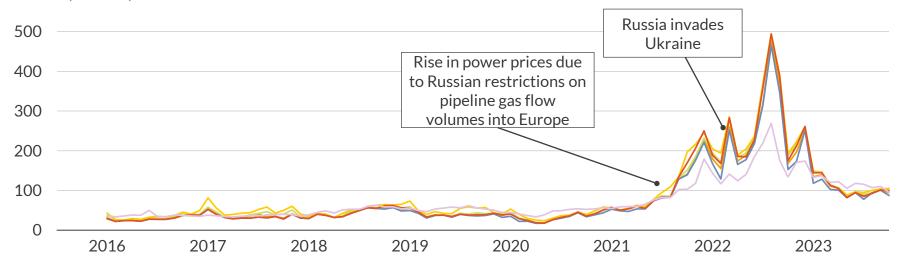


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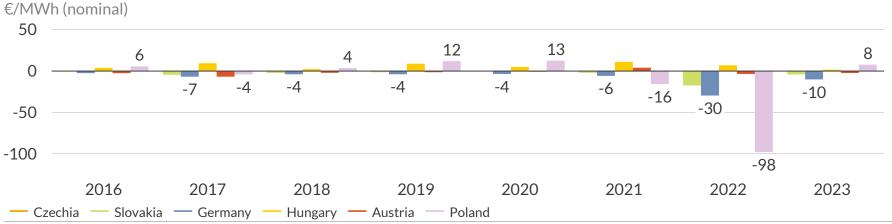
Slovak power prices have traded at a premium to western neighbours due to greater exposure to the more expensive Hungarian market

Historical baseload electricity prices¹

€/MWh (nominal)



Average annual delta in baseload electricity prices between neighbouring countries and Slovakia



¹⁾ Monthly average.

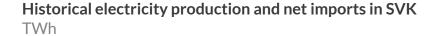
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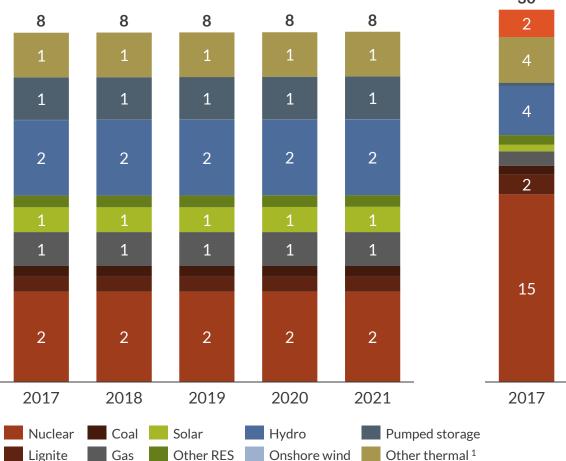
- The large share of lignite, nuclear and hydro in generation mixes has historically meant low exposure to commodity prices.
 Power prices stayed low and stable in Czechia and Slovakia together with low ETS prices.
- Nonetheless, high levels of interconnection meant both markets were left exposed to record gas prices following Russia's invasion of Ukraine.
- Czech and Slovak prices have closely tracked those of their neighbours. Slovakia has traded at a premium to Czechia, largely due to greater exposure to the more expensive Hungarian market.
- Polish prices diverge more strongly, caused by weaker interconnection and reliance on domestically-produced coal.

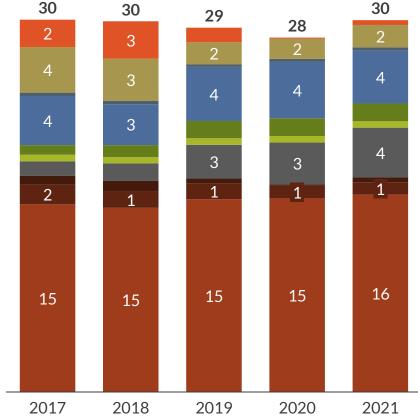
Sources: Aurora Energy Research, ENTSO-E.

The Slovak generation mix is centred on nuclear and hydro, which met 65% of demand in 2021, with solar playing a minimal role

Historical installed capacity in SVK \mbox{GW}







- Nuclear constitutes a key part of the Slovak power system, with 2 GW of capacity historically covering approximately 50% of demand. Two additional newbuild units are adding almost 1 GW of additional capacity by 2025.
- Coal and lignite have played a minimal role in Slovak generation, having been mostly replaced by gas in the district heating system. The final Slovak coal units were closed in 2023.
- Hydro is key to providing both generation and flexibility, with around 2 GW of run of river units and 1 GW of pumped storage operating.
- Variable renewables play a marginal role in the system, with less than 1 GW of installed capacity in total.

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¹⁾ Other thermal includes oil and uncategorised thermal plants.

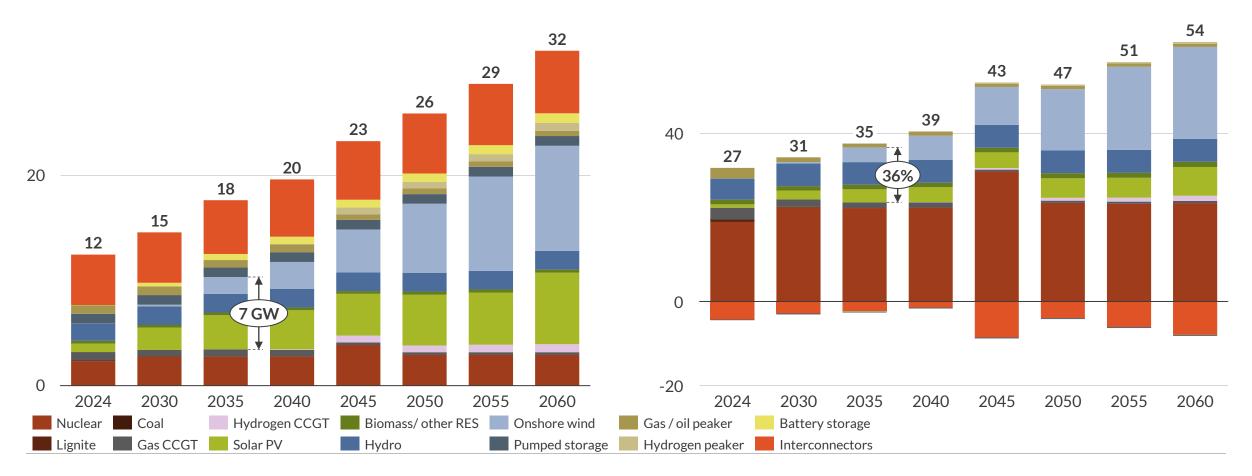


While the Slovak generation mix remains mostly stable, growing demand causes renewables capacity to reach 7 GW by 2035



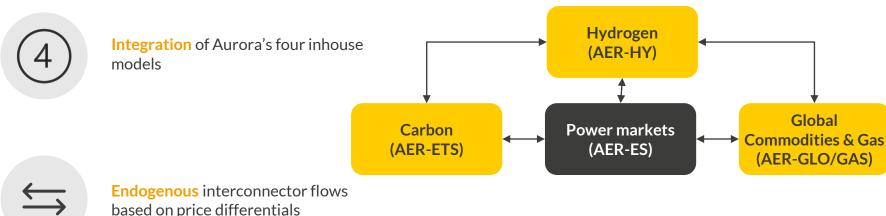






Aurora's unique, proprietary, in-house modelling capabilities allow to assess challenges for the CZE and SVK power market in a holistic manner





 Our models have been rigorously tested and refined in a wide range of client contexts

> Flexible and nimble because we own the code

Advantages of Aurora approach

Aurora have invested heavily in

developing our dispatch models since 2013 and believe they are

the most sophisticated available

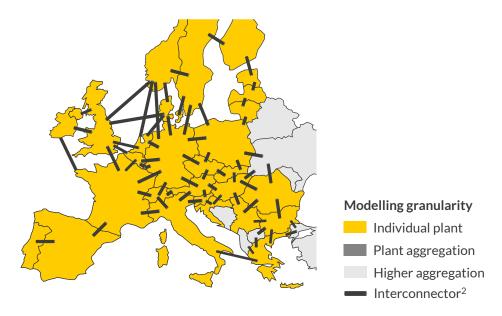
- Zero dependence on black-box third-party software (e.g. PLEXOS)
- Ability to model complex policy changes quickly
- Taking into consideration Europe wide developments through cross-border market modelling



Interdependence of prices and capacities in different regions



High granularity right down to individual plant level



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Slovak Power & Renewables Forecasts:



Dive into key market analysis and forecasts for the Slovak power and renewables markets

Power & Renewables
Forecasts

Forecast Reports & Data



Biannual forecast reports with biannual data updates

- Forecast of wholesale prices to 2060
- Data under three scenarios: Central, Low and High
- Policy outlook detailing policy developments and their impacts
- Capacity development, generation mix and exports
- Capture prices of key technologies (onshore wind, solar)
- Power price distributions
- EU-ETS carbon price forecasts
- All forecast data easily downloadable in Excel format and available as interactive dashboards on our EOS platform

Strategic Insights



Analyst Support

- Bi-annual workshops to discuss specific issues on the Slovak market
- Ongoing support from our bank of analysts, including native speakers and on-the-ground experts

Our service can take your business to the next level. Discuss its benefits with **Joanna** Marszalkowska. Commercial Associate

