

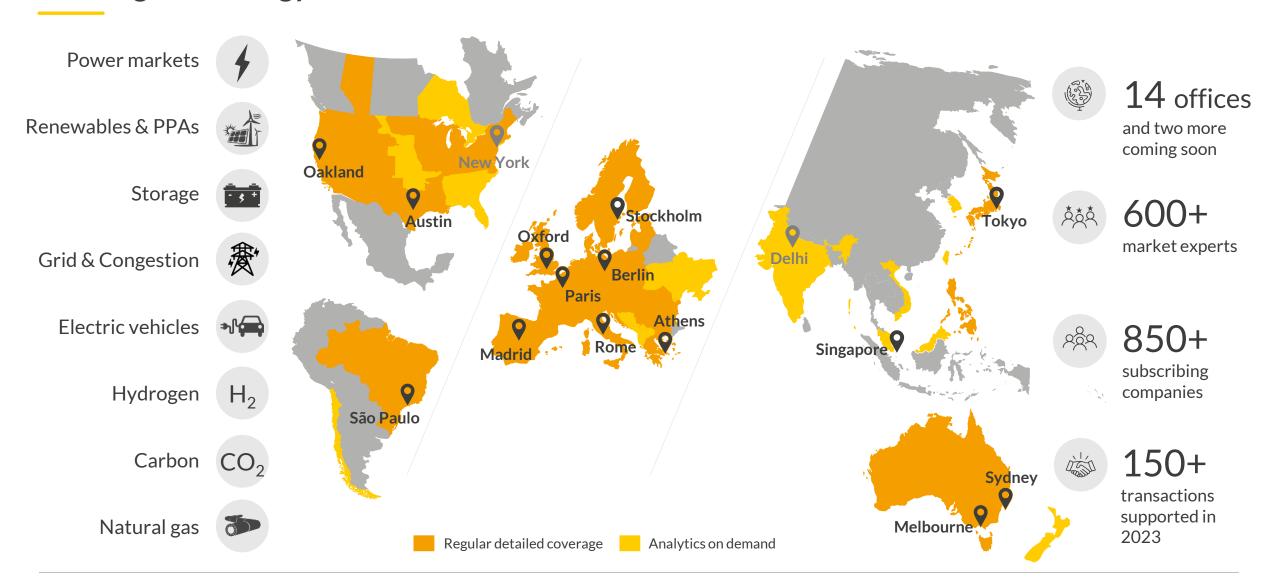
The Slovak Power and Renewables Market: Long-Term Outlook

REDACTED VERSION



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

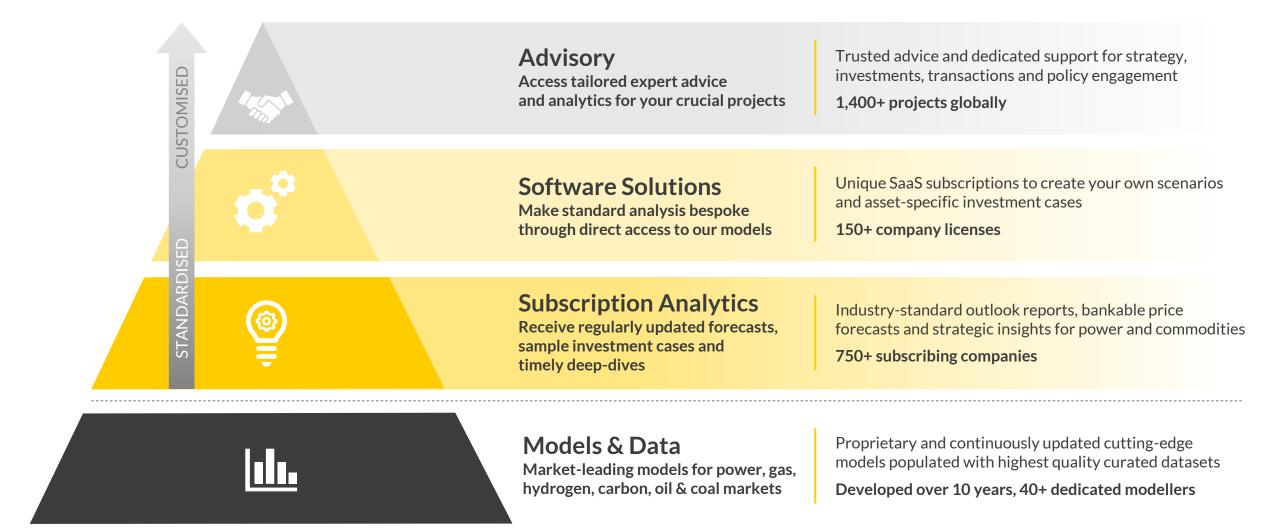




Source: Aurora Energy Research

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





Source: Aurora Energy Research 3

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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Our April 2024 forecast contains the following key updates and takeaways



Key assumption updates and takeaways

Update of Slovak fuel and carbon price projections in the short term (deltas relative to February 2024 2nd Mutli-Client Study Workshop)

Demand forecast revision

Assumption updates

Takeaways

Solar load factor revision

Bohunice units lifetime extension

Prices fall in the short term influenced by commodities

Low long-term prices

Switch to net exporter

Description

	Gas Price	Coal Price	Carbon Price
Short Term (2024-27)	- %	- %	- %
Long Term (2028-2060)	- %	+ %	- %

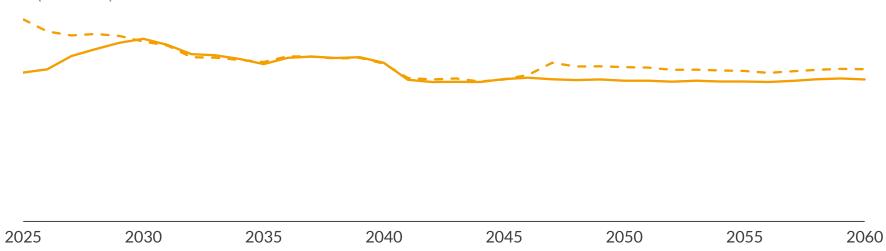
- We have accounted for the likely reopening of the Slovalco aluminium plant and the switch of U.S Steel Košice to electric arc-furnaces, leading to a steep demand rise by 2030. By 2060, base demand is down by TWh due to a lower assumed energy intensity, while demand from electrification in district heating rises by TWh.
- We have developed specific load profiles for the Slovak market based on Solaris, Aurora's tool for irradiation analysis.
 We assume a 60% load factor for bifacial utility-scale solar installations.
- Based on client feedback, we now assume that the existing units at Jaslovské Bohunice NPP will have their lifetime extended to 80 years, retiring beyond our forecast horizon in 2060.
- A mild winter and slowdown in European industrial output have led to dramatic drops to gas and carbon prices. This results in baseload prices falling €/MWh on average between 2024 and 2029, with prices for 2024 down €/MWh.
- Slovak prices peak at €/MWh in 2030 and stabilise around €/MWh in the 2030s. Once additional nuclear is commissioned in 2041, baseload prices fall further, stabilising around €/MWh in the long-term, significantly below the level seen in neighbouring markets.
- Slovakia has historically been a net importer, but the commissioning of new units at Mochovce means it becomes a net exporter already in 2024 and 2025. This trend is accelerated as Czech lignite is retired and Slovakia maintains an abundance of low marginal-cost generation from nuclear and hydro.

Sources: Aurora Energy Research

Baseload price peaks at €/MWh in 2030, then gradually decreases, stabilising around €/MWh between 2040 and 2060

Baseload wholesale electricity price





Delta to previous forecast¹

€/MWh (real 2023)



■ We have revised the lifetime of the Bohunice nuclear unit, now assuming closure after 2060 rather than in 2047. This drives a relative decrease in baseload prices of, on average, MWh compared with our previous forecast from 2047 to 2060.

— Historical baseload — Baseload — Previous baseload — Delta

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Outlook for baseload prices

2024-2040

- Baseload price rises to a relative peak of €/MWh in 2030, then rebalances around €/MWh, as rising gas and carbon prices are combatted with RES buildout in Slovakia and its neighbours, Czechia and Hungary.
- Switching of gas-fired capacities to hydrogen in Germany causes a jump in baseload price in interconnected regions in 2035.

2041-2050

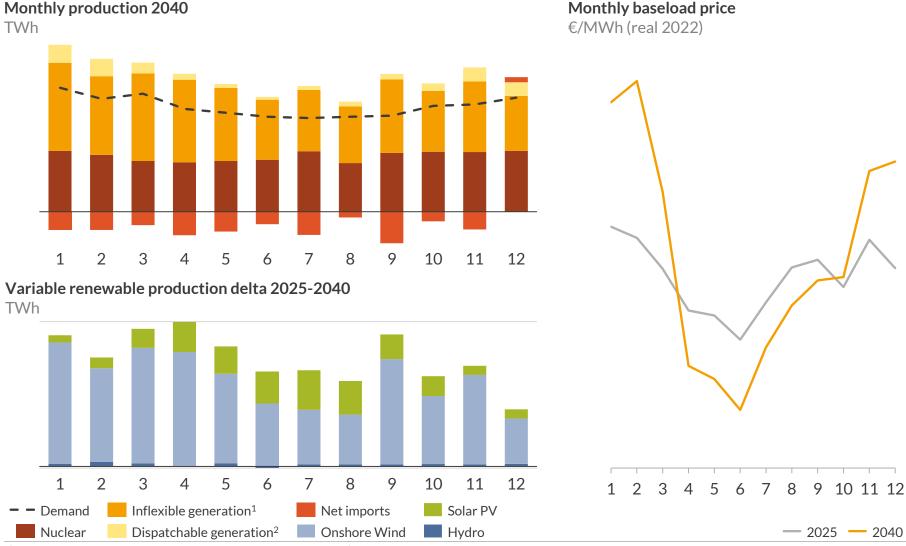
 Slovak prices fall by €/MWh between 2040-2041 as the Bohunice nuclear reactor expansion is commissioned.

2051-2060

■ Baseload price stabilises at an average of €/MWh as RES and nuclear limit the role of dispatchable generation.

¹⁾ Refers to Aurora's preliminary market outlook for Slovakia presented during the 2nd workshop of the Czech and Slovak Multi-Client Study in Prague on 14 February 2024.

Nuclear, high solar generation and lower seasonal demand drive an increasingly large discount between summer and winter prices



- Inflexible generation in Slovakia remains strong across the seasons, with renewable generation peaking in the summer months when solar PV potential is at a maximum, and forced CHP operation peaking in the winter months when heat demand is highest.
- Onshore wind offers an additional contribution to production in cooler months, but its weather-dependent nature means that dispatchable capacity is necessary to meet demand.
- Slovakia becomes a net importer in December 2040, allowing demand to be met when solar PV generation is minimal.
- Baseload prices in June 2040 are % of the 2025 value, due to renewables and nuclear together exceeding the total demand in the summer months.

1) Inflexible generation includes renewables and forced CHP generation. 2) Dispatchable generation includes generation from lignite, hard coal, gas CCGT, oil/gas peaker, hydrogen CCGT, hydrogen peaker, biomass, battery storage, DSR and pumped storage.

Sources: Aurora Energy Research

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Solar capture prices fall by €/MWh in the period to 2035, driven by subsidy, before stabilising as buildout stalls

Baseload and renewables capture prices¹

€/MWh (real 2023)



¹⁾ Uncurtailed generation-weighted capture prices. 2) Refers to Aurora's preliminary market outlook for Slovakia, presented during the 2nd workshop of the Czech and Slovak Multi-Client Study in Prague on 14 February 2024.

Sources: Aurora Energy Research

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Onshore Wind

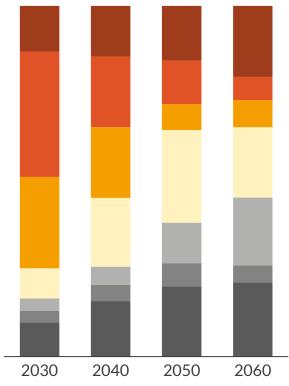
- Onshore wind capture prices rise in the short-term as permitting restrictions limit buildout, peaking at €/MWh in 2030.
- Long-term buildout of onshore wind brings capture prices beneath baseload price, where they remain stable around
 €/MWh after 2040.

Solar

- Solar capture prices fall €/MWh between 2024 and 2035, driven by subsidised solar buildout in Slovakia and neighbouring regions, before increasing in the period up to 2040 as subsidies are exhausted.
- In the long-term, solar capacity stabilises and capture prices follow baseload price behaviour, exposed to the impact of new nuclear capacity at Bohunice.

Abundant cheap generation and coupling with more expensive neighbouring markets drives high price volatility after 2030

Frequency distribution of the electricity price (real 2023)







Average daily 1h spread in Day-Ahead market €/MWh (real 2023)



2024 2030 2035 2040 2045 2050 2055 2060

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- The retirement of lignite capacities in Czechia and steep growth of Slovak demand results in capacity tightness by 2030. Alongside recovering commodity prices, this leads to increased occurrence of high price hours.
- Concurrently, the fast buildout of solar in Slovakia and neighbouring markets causes
 % of hours to be priced below
 €/MWh by 2040.
- Together, these factors lead to 1-hour spreads above
 €/MWh from 2027 onwards, creating an attractive case for battery investments.
- In the long term, the commissioning of an additional nuclear reactor increases the occurrence of low-price hours and reduces spreads slightly.

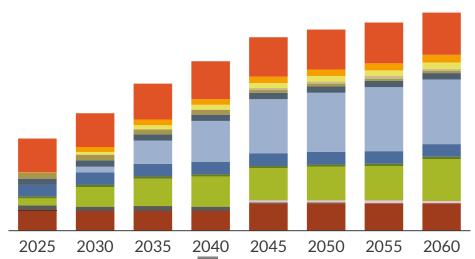
Source: Aurora Energy Research

The development of nuclear and renewables in Slovakia enables low carbon generation to exceed its demand and makes it a net exporter

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Installed capacity GW

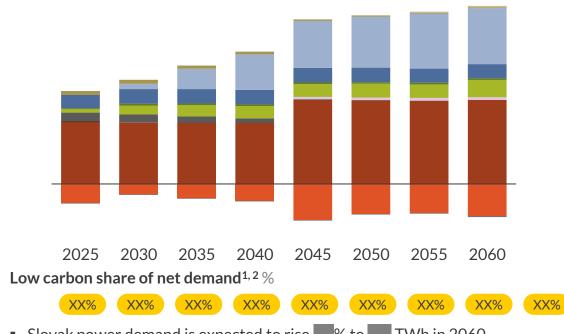


- Installed capacity increases by
 GW until 2060, mainly driven by renewables, whose total capacity reaches GW. Fast short-term solar buildout is driven by available investment subsidies, and onshore wind builds later in the forecast where permitting restrictions provide less constraint.
- Dispatchable capacity remains stable, with gas CHPs being replaced by hydrogen in the 2040s. Additional capacity comes largely from BESS and DSR.
- Nuclear capacity rises to
 GW with a replacement unit commissioned at Bohunice in 2041 and older units staying online across the forecast horizon.



1) Low carbon generation includes nuclear and renewables. 2) Net demand excludes exports, allowing low carbon share to be above 100%.

Electricity production and net imports TWh

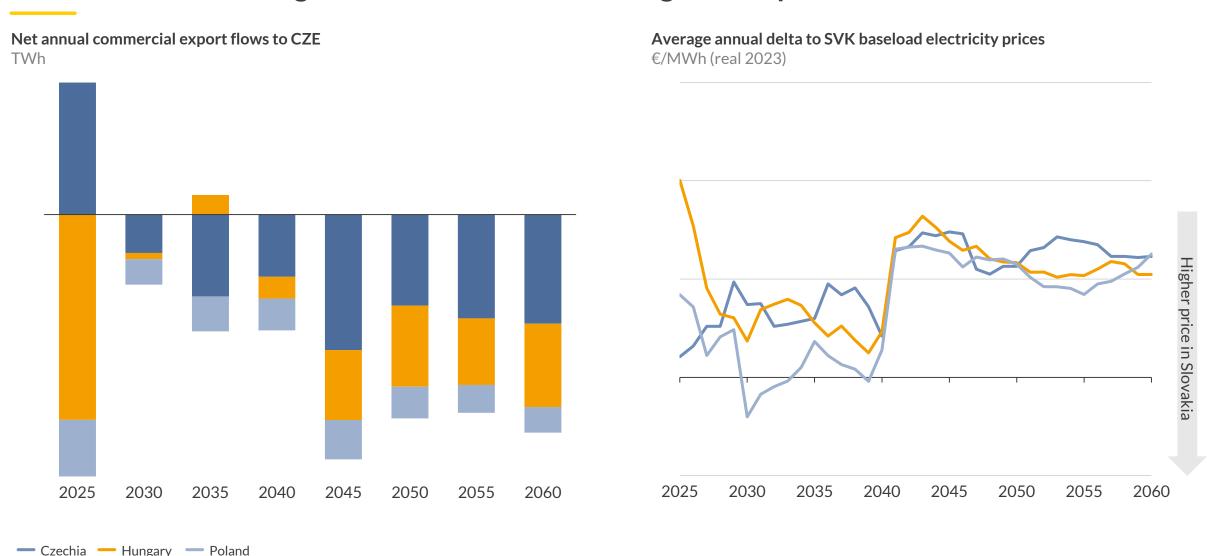


- Slovak power demand is expected to rise
 % to
 TWh in 2060.
- Renewable generation increases by
 TWh in the period to 2060, rising from a % share of power demand in 2024 to a % share in 2060.
- Slovakia was a net importer of electricity until 2022 but solidifies its position as a net exporter from 2024 and across the entire forecast.

Sources: Aurora Energy Research, IEA

Low marginal cost generation from nuclear and hydro and the retirement of Czech lignite turn Slovakia into a large net exporter





Sources: Aurora Energy Research, ENTSO-E.

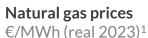
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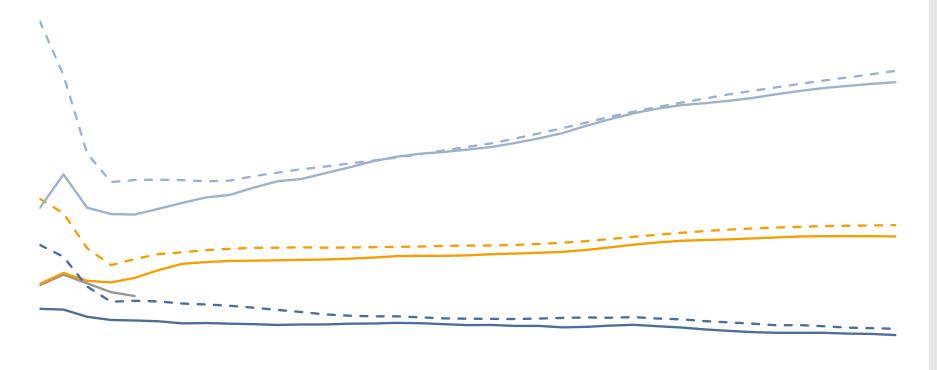


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Gas prices in Europe stabilise by 2027, as more LNG is available in the global markets, then climb driven by ramping demand in Asia







¹⁾ CEGH VTP historical and futures gas prices are shown. For years 2024-2028, the prices shown take into account current futures prices for the years in question, with declining weights. In 2024, forecast prices include historical prices up to Feb-24. 2) Futures on trading days between 26/02/2024 and 08/03/2024.

Sources: Aurora Energy Research, EEX, CME

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2024-2027

- The gas price averages €/MWh in 2024-2027, lower than the previous forecast due to mild weather, robust supply, and high stocks.
- After 2025, prices fall as additional LNG import capacity in Europe comes online and global export capacity expands.

2028-2060

- The gas price averages
 €/MWh in 2028-2060,
 lower than the previous
 forecast, as Russian imports via
 Ukraine transit displace more
 expensive sources of supply.
- Prices rise by 2030 amid global demand growth, with limited new LNG capacity additions post-2027. After 2030, rising gas demand in Asia increases the cost of marginal supply, partially mitigated by renewables and electrification deployment in Europe.

European gas futures for 2024 delivery fell % since our January report, however our expectation of 2030 delivery is down just %

European (TTF) gas price¹

Europe's industrial gas

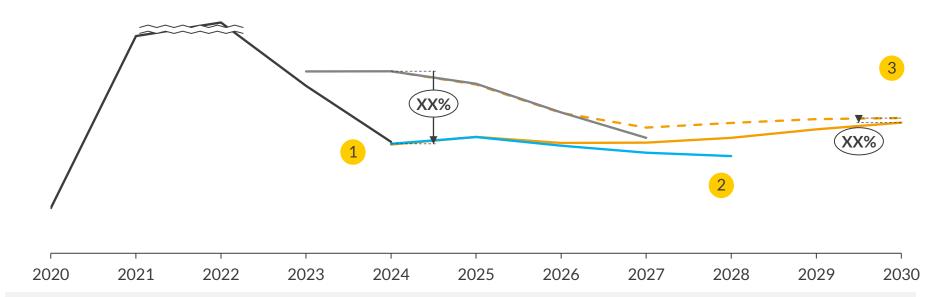
recovery from a year

earlier.

demand over winter was

particularly low, resisting

€/MWh (real 2023)



Why did 2024 futures drop by since our January report?

Q4 2023

Northeast Asian LNG imports remained unusually weak, freeing up supply and lower shipping costs. Persistent mild weather limited residential gas demand and kept storage withdrawals low.

O1 2024

Underground gas inventories ended winter at high levels, cutting import demand and depressing prices.

— Historical — Apr 24 Central¹ — Jan 24 Central¹ — Apr 24 Futures² — Jan 24 Futures³

1) For years 2024-2028, the prices shown take into account current futures prices for the years in question, with declining weights. 2) Futures on trading days between 26/02/2024 and 08/03/2024. 3) Futures on trading days between 17/11/2023 and 30/11/2023. 4) Futures on trading days between 21/08/2023 and 01/09/2023.

Sources: Aurora Energy Research, EEX, Carbon Pulse, Bloomberg, Petroleum Economist, Financial Times, Business Green, European Commission

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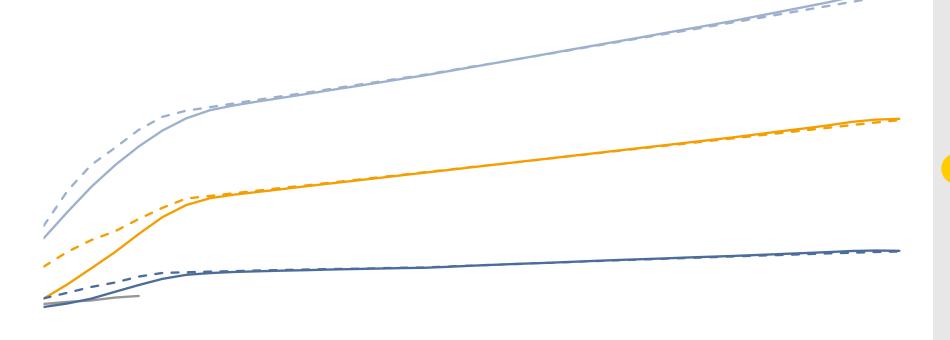
- 1 2024: Driven by the drop in futures, we revised our 2024 gas price forecast % lower.
 - The drop in futures is driven by short-term factors, as well as lower European demand.
- 2 Late 2020s: In the late 2020s, we forecast prices to rise steadily in real terms, diverging from where futures were trading in early Mar-24.
- 3 By 2030: By 2030, our forecast is €/MWh, up from €/MWh in 2024.
 - This means our 2030 forecast is nearly unchanged from our Jan 2024 forecast.
 - The rise in gas prices in the 2020s and beyond is caused by bullish factors outside of Europe. Importers increasingly need to compete with growing appetite for LNG from other regions, particularly in Asia.

2030 EU carbon price declines by % compared to our January forecast anticipating slower recovery of some industry sectors

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Carbon prices

€/tCO₂ (real 2023)¹



2025	2030	2035	2040	2045	2050	2055	2060
— Historical	— Q2 2024 Central	— Q2 2024 High	— Q2 2024 Low				
— Futures ²	Q1 2024 Central	Q1 2024 High	- - Q1 2024 Low				

¹⁾ For years 2024-2028, the prices shown take into account current futures prices for the years in question, with declining weights. In 2024, forecast prices include historical prices up to Feb-24. 2) Futures on trading days between 26/02/2024 and 08/03/2024.

Sources: Aurora Energy Research, EEX, CME

2024-2027

- Carbon prices average
 €/tCO₂, % down from our previous forecast, due to weaker economic activity from the EU's manufacturing sector.
- The drop in prices is driven by lower futures prices, higher cost of capital, and slower economic recovery for some sectors.

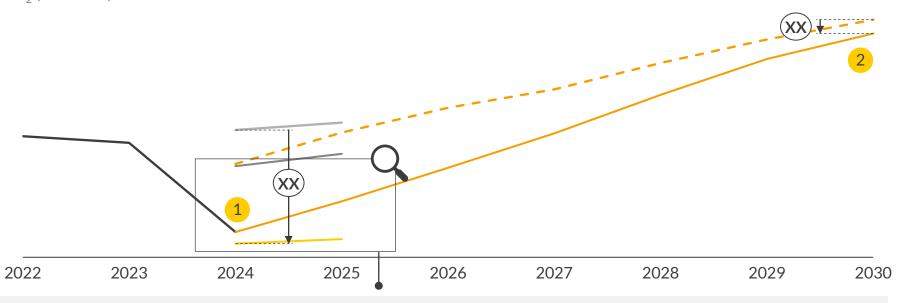
2028-2060

- Carbon prices average
 €/tCO₂, unchanged from the previous forecast, and rise to
 €/tCO₂ by 2060.
- In the medium term (2028-2035), prices are driven by policy ambition and hedging demand which is balanced by a weakening economy.
- Our Central forecast assumes the carbon price approaches a subsidised fuel switch cost to green hydrogen for power production by 2060.

Carbon futures dropped by 6 % for 2024 while we only expect 6 % lower prices by 2030 compared to our January forecast

Carbon price

€/tCO₂ (real 2023)



Why did futures drop by 37% since October?

Apr 24 Central

Q2 2023

Historical

Announcement that frontloaded EUAs will be auctioned 2023-2025 to fund RePowerEU Q4 2023

German industrial output drops, particularly for high emitting sectors

- Jan 24 Central

Q42023

ECB rates remain high at % despite lower inflation expectations

Gas prices continue to drop, keeping emissions from the power sector low

Q12024

Extension of compliance deadline eases short-term demand

Q12024

— Futures Mar 24 — Futures Dec 23 — Futures Oct 23

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Deep-dive on next slide

- 1 2024: Driven by the drop in futures, we revised our short-term forecast of carbon prices downwards by \(\bigcup_{\pi}^{\pi}\)
- 2 Until 2030: We expect prices to approach our January 2024 Central forecast by 2030
 - We continue to expect lower emissions from the power sector, but anticipate a recovery of industry demand and a steep decline in supply
 - The carbon price in 2030 is
 % below our January
 forecast as we predict lower
 industrial output than
 previously anticipated in the
 long-term in the sectors glass,
 lime and paper

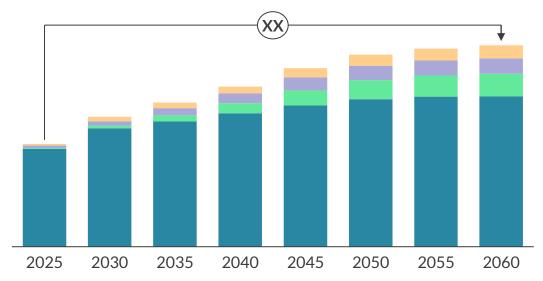
Slovak annual power demand reaches TWh in 2060, almost doubling across the forecast





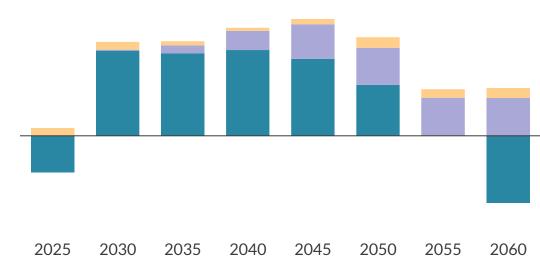
Net annual power demand by type¹

TWh



- Between 2025 and 2060, we expect total power demand in Slovakia to increase by TWh (%).
- Industrial electrification is a key driver, with total base demand increasing by 14 TWh (%) across the forecast – TWh of this growth occurring by 2030 - and % of total demand in 2060 still comprised of base demand.
- Electrification of transport sees demand from electric vehicles reaching 6 TWh by 2060, making up % of total demand, while demand from heat pumps reaches TWh by 2060.

Delta in net annual power demand compared to previous forecast² TWh



- Changes in base demand relative to our previous forecast stem from revisions in our short-term demand assumptions, based on the recent closure of Slovalco aluminium plant, its assumed re-opening by 2026, and the pre-2030 electrification of U.S. Steel Košice via installation of two electric-arc furnaces.
- Revisions around the role of large-scale heat pumps in district heating, alongside a decrease in long-term energy intensity in the industrial, commercial and domestic sectors, causes further variation in our demand projection. Total demand in 2060 is TWh below our previous forecast.

EV demand Electric heat demand Electrolyser demand

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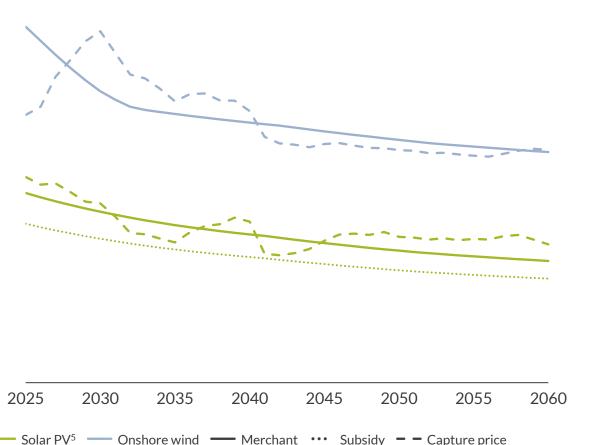
A subsidised solar PV asset entering the market in 2025 could achieve an LCOE of below €/MWh, amongst the lowest in Europe



The levelised cost of electricity (LCOE) shows the relative economic competitiveness of utility scale renewable technologies with different market entry years. As well as projected cost changes, the load factor and the cost of capital, based on the route to market type, strongly influence the forecasted LCOE curve.

Renewable LCOE trajectories¹

€/MWh (real 2023)

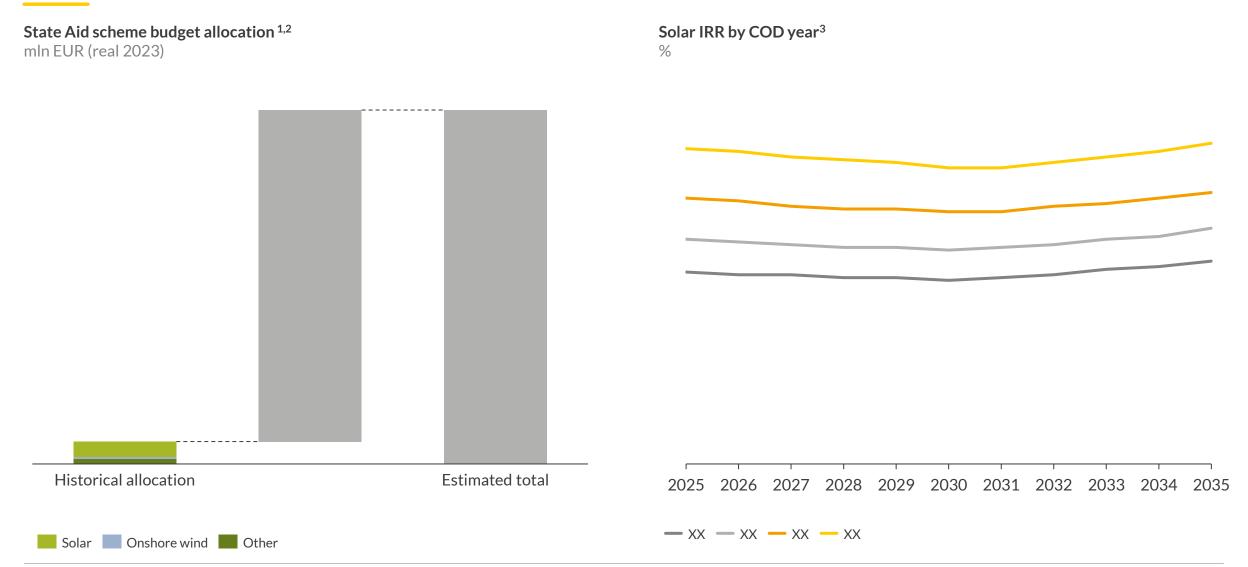


Onshore wind Size 100 MW utility scale Lifetime 27 years Load factor ² %	Technology	Parameter	Assumption		
	Onshore wind	Size	100 MW utility scale		
Load factor ² %	_	Lifetime	27 years		
	I	Load factor ²	%		
WACC (merchant) ³ %		WACC (merchant) ³	%		
Solar PV Size 50 MW utility scale	Solar PV	Size	50 MW utility scale		
Lifetime 30 years		Lifetime	30 years		
Load factor ² %	◆	Load factor ²	%		
WACC (merchant) ³ %		WACC (merchant) ³	%		
Assumed subsidy intensity ⁴ %		Assumed subsidy intensity ⁴	%		

John PV On Shore while asset pro-curtailment for different commercial eneration dates. Wind ass

0.5 bn EUR of State Aid subsidy <u>remains available</u>; a <u>% subsidy</u> intensity enables IRRs between % and % depending on entry year





¹⁾ The proposed budget for the State Air programme assumes funding from the Modernisation Fund (expected budget of 416 mn € in 2021-2030) and the Recovery and Resilience Facility (actual allocation of 103 mn € in 2022-2023) 2) Estimated allocation from Modernisation Fund. The real allocation can differ based on the future EU ETS prices. 3) Project IRR, real pre-tax Sources: Aurora Energy Research, Modernisation fund financing scheme, Ministry of Economy of Slovak Republic

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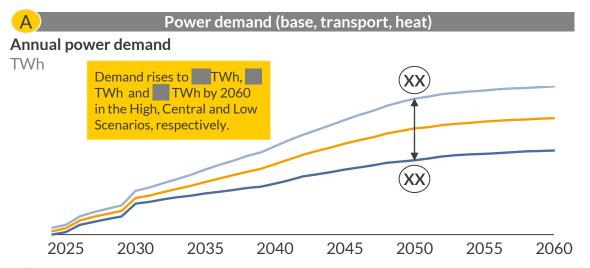


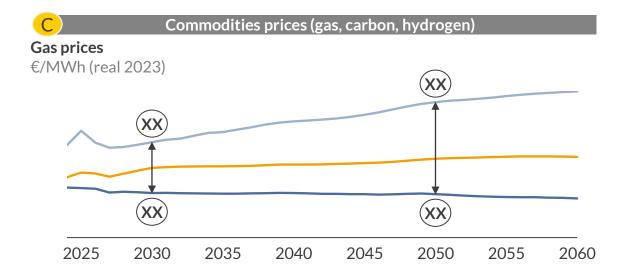
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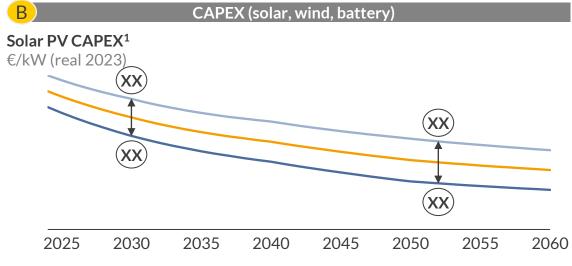
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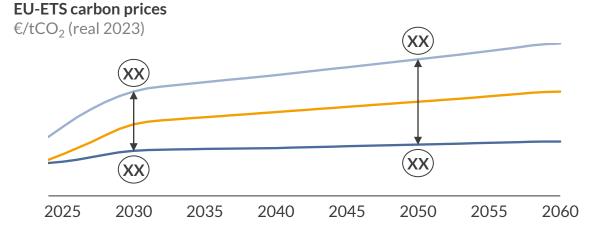
Our High/Low Scenarios are constructed using plausible deviations in power demand, CAPEX and commodity prices











Central — High — Low

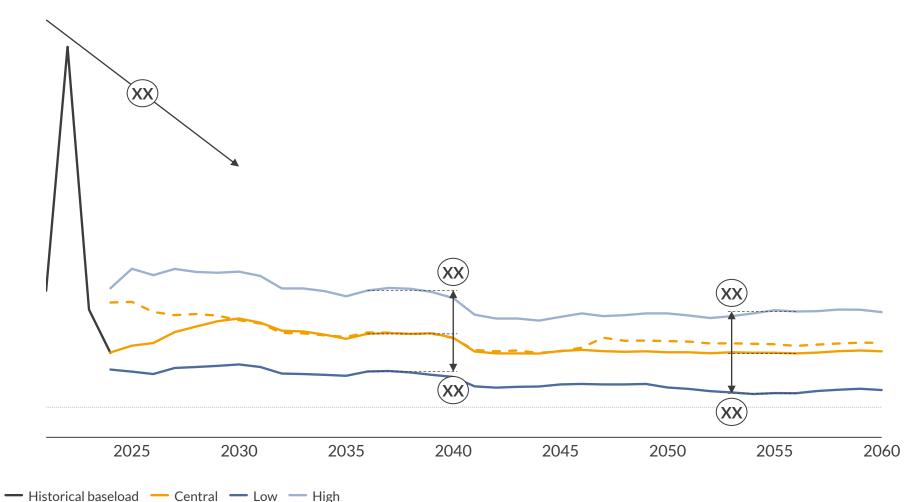
Sources: Aurora Energy Research

¹⁾ Merchant bifacial solar PV CAPEX (unsubsidised) is shown,

Until 2060, power prices in the High case are \(\bigs\) % higher on average relative to Central, and \(\bigs\) % below Central in the Low case

Baseload wholesale electricity price

€/MWh (real 2023)



1) Refers to Aurora's preliminary market outlook for Slovakia, presented during the 2nd workshop of the Czech and Slovak Multi-Client Study in Prague on 14 February 2024.

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High

- The baseload price trajectory increases sharply between 2024 and 2025 and remains elevated at an average of €/MWh until 2031. Until 2060, the High baseload price averages at 8 above the Central Scenario.
- Higher demand increases the tightness of the system, and elevated commodities prices further drive up baseload price in the High Scenario.

Low

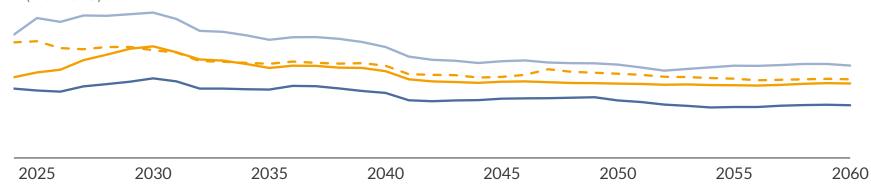
- The Low Scenario baseload price trajectory is depressed at an average of €/MWh: %
 below the Central Scenario.
- The sustained low pricetrajectory in this scenario is driven by low commodities prices, decreased renewables
 CAPEX and weak power demand.

Sources: Aurora Energy Research, ENTSO-E

Capture prices in High fall in the long term due to higher RES buildout, whereas Low prices are more stable across the forecast

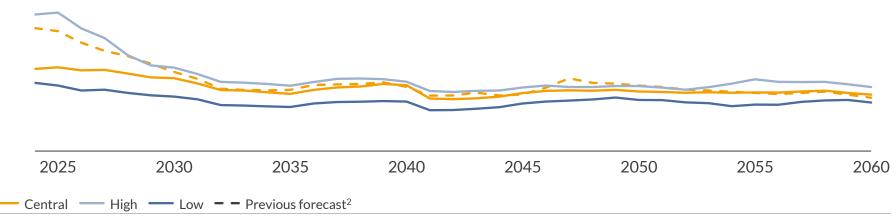
Onshore Wind Capture Prices¹

€/MWh (real 2023)



Solar Capture Prices¹

€/MWh (real 2023)



¹⁾ Fleet average, uncurtailed generation-weighted capture price across all regions. 2) Refers to Aurora's preliminary market outlook for Slovakia, presented during the 2nd workshop of the Czech and Slovak Multi-Client Study in Prague on 14 February 2024.

Sources: Aurora Energy Research

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Capture Price Outlook

Onshore Wind

- Onshore wind sees limited cannibalisation and is strongly influenced by commodity and baseload price behaviour.
- The change in onshore wind capacity across scenarios drives the divergence of capture prices across the forecast, averaging + % in High and % in Low compared with Central after 2030.

Solar

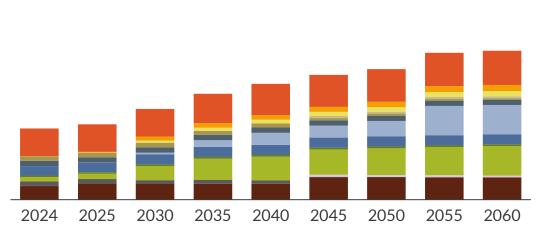
- Baseload and commodity prices greatly influence solar PV capture prices in the short term, where cannibalisation is limited.
- High and Low solar capture prices converge with the Central Scenario in the mid-term, driven by buildout of subsidised capacity.
- After 2050, High capture prices converge with Central, as solar PV buildout continues.

Total capacities increase to **GW** and **GW** by 2060 in the Low and High Scenarios, respectively

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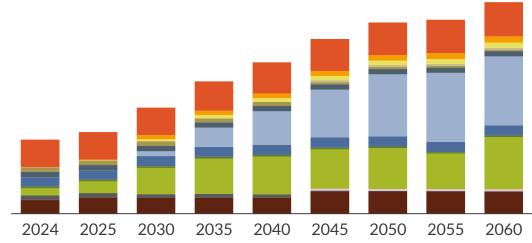
Installed capacity



- Solar PV buildout is mostly restricted to subsidised capacities benefitting from support from the Modernisation fund, and as retiring subsidised capacity is replaced at the end of the forecast, further solar buildout is limited.
- Onshore wind buildout occurs across the whole forecast, but the capacity in 2060 fails to utilise even % of the maximum geotechnical potential.



Installed capacity



- Renewable capacity increases by GW, a % increase, between 2024 and 2060, with subsidised solar buildout in in the first half of the forecast met with merchant solar and onshore wind buildout throughout.
- Fast demand growth and high capture prices drive onshore wind capacity to reach GW of capacity, as we assume that regulatory adjustments allow permitting of additional capacity compared to Central.
- Merchant solar PV buildout replaces capacity retirements by 2060.



Sources: Aurora Energy Research 26

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Key takeaways



- Baseload prices have slumped with commodity markets, but will rise to a level of €/MWh by 2030. New capacities in Czechia stabilise prices around €/MWh in the 2030s, before they fall to a long-term level around €/MWh once new nuclear is commissioned in 2041.
- Solar capacity reaches GW by 2035, before buildout slows as subsidies expire. Onshore wind is restricted by planning processes and reaches only GW by 2035, before capacity additions accelerate, leading installed capacity to reach GW by 2060.
- An abundance of cheap nuclear and renewable generation make Slovakia a net exporter across the foreacast horizon, reaching **TWh in 2045.** Prices are coupled to more expensive markets in many hours, driving **high spreads** and **strong seasonal variability.**
- Fast buildout in neighbouring markets leads solar capture prices to fall to €/MWh in 2035, leaving projects reliant on Capex subsidies from the State Subsidy scheme. A 20% subsidy intensity can secure a 8 1RR for a project entering in 2028.
- Baseload prices are around **% lower** under our Low Scenario, leading to solar capture prices fluctuating between **and €/MWh** after 2030 and onshore wind capture prices remaining between **and €/MWh** in the same period.

Source: Aurora Energy Research.

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

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



Details and disclaimer

Publication

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