

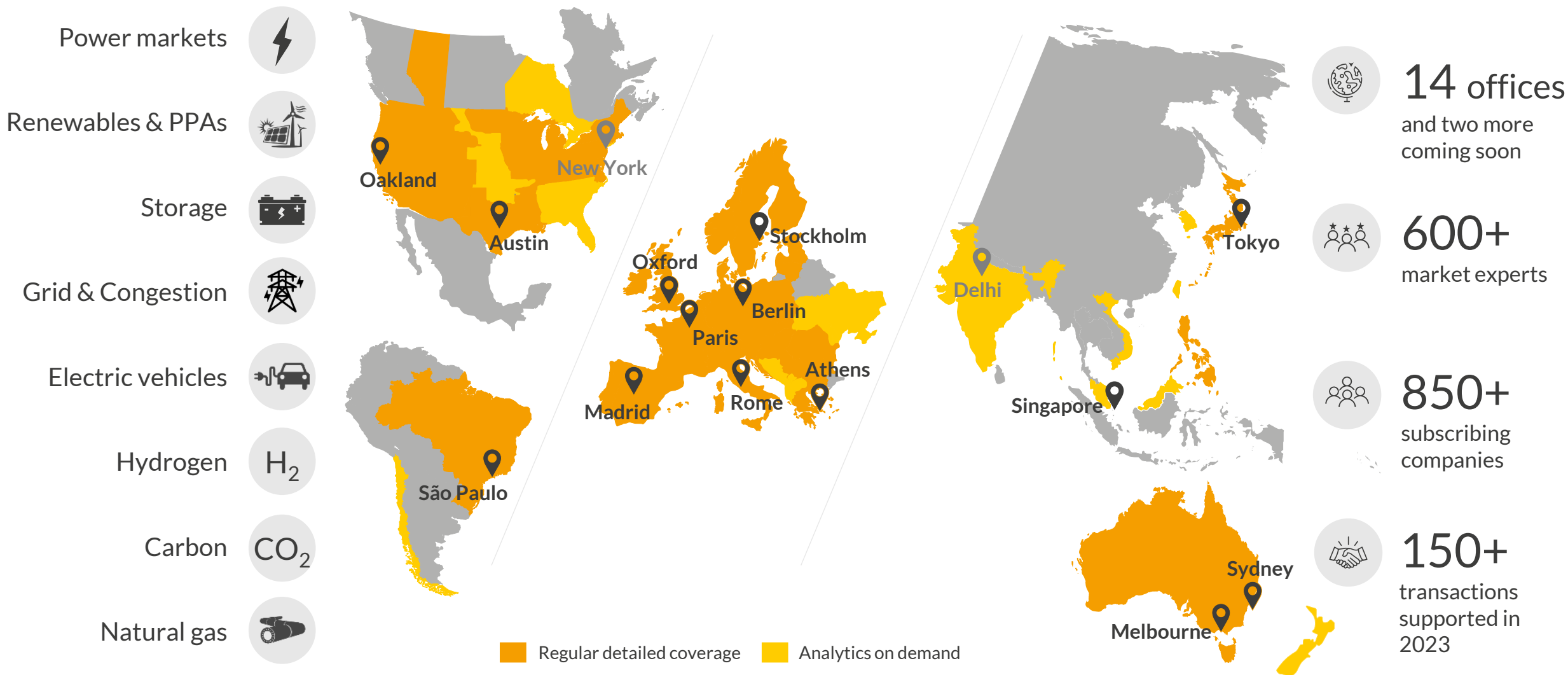
The Czech Power and Renewables Market: Long-Term Outlook

REDACTED VERSION

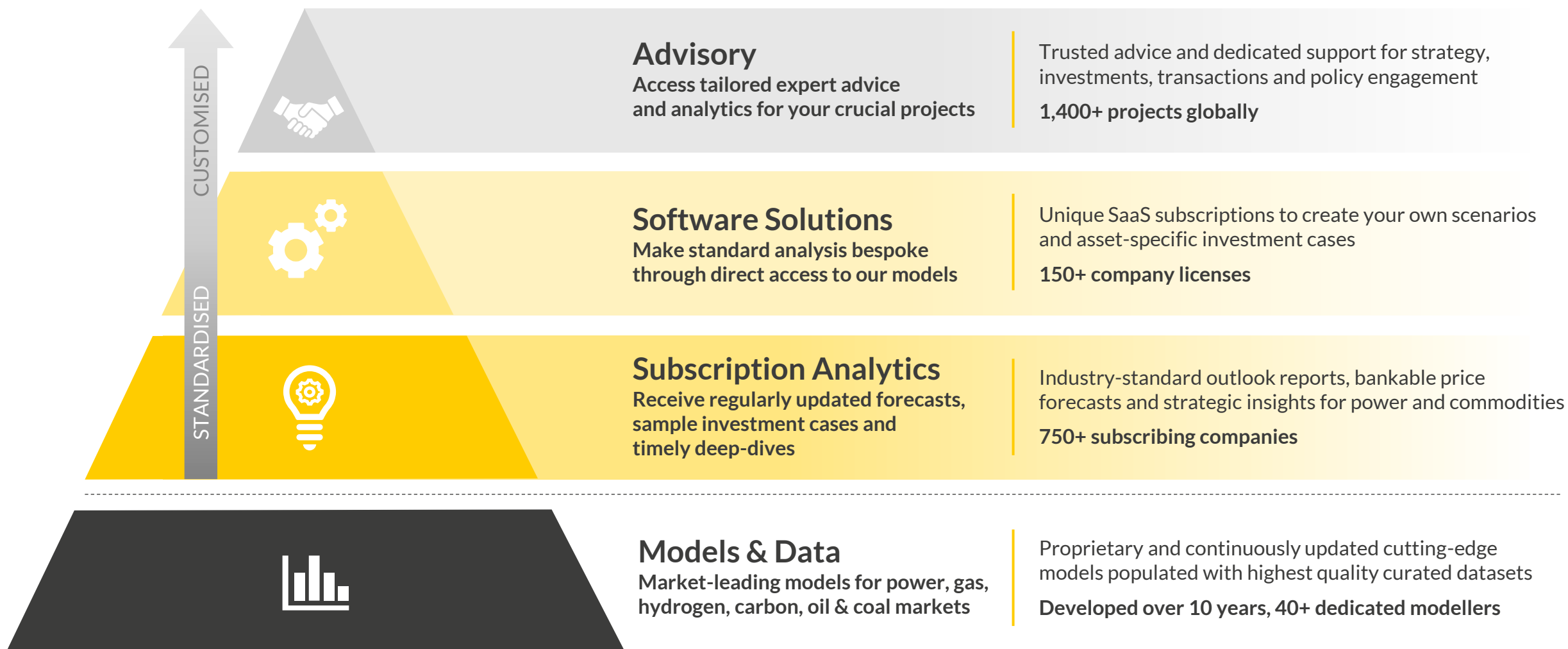


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"With its capabilities, intellect and with its credibility Aurora plays an essential role bringing the dialogue [in the global energy transition] to a different plane"

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



Power & utilities



Oil & gas



Energy consumers



Project developers



Financial sector & investors



Policy & regulation



- I. Long-term outlook for the Czech market
- II. Understanding price drivers
- III. Investing in solar
- IV. Key market uncertainties: Our High/Low Scenarios
- V. Key takeaways

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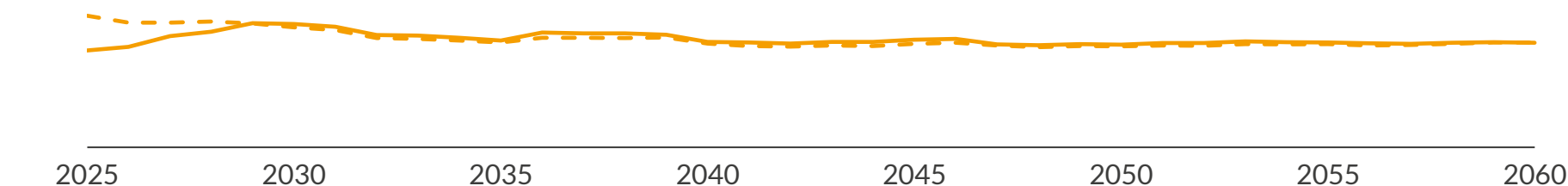
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Our April 2024 forecast contains the following key updates and takeaways



Key assumption updates and takeaways		Description			
Assumption updates	Update of Czech fuel and carbon price projections in the short term (deltas relative to February 2024 2 nd Mutli-Client Study Workshop)		Gas Price	Coal Price	Carbon Price
	Demand forecast revision	Short Term (2024-27)	- █ %	- █ %	- █ %
	Solar load factor revision	Long Term (2028-2060)	- █ %	+ █ %	- █ %
	RES+ subsidy revision	<ul style="list-style-type: none">We have taken a more bullish view on long-term energy intensity reductions, leading to █ TWh less base demand by 2060. This is partly compensated by █ TWh additional demand due to a larger role for heat pumps in district heating.We have developed specific load profiles for the Czech market based on Solaris, Aurora’s tool for irradiation analysis. We assume a █ % load factor for bifacial utility-scale solar installations.We have revised our assumption for the budget available under the RES+ scheme, based on the reduction in its share of the total Czech Modernisation Fund budget. We have also revised our assumptions about the subsidy intensity of investments under the scheme and the technologies which access funding.			
Takeaways	Prices fall in the short term influenced by commodities	<ul style="list-style-type: none">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.			
	Rapid lignite exit	<ul style="list-style-type: none">Most lignite capacity retires by 2027 as EU ETS price levels make them economically unviable and no support scheme exists to facilitate their continue operation. Replacement dispatchable capacity comes mostly in the form of batteries, demand side response and gas CHPs.			
	Fast buildout of renewables	<ul style="list-style-type: none">Subsidy support for utility-scale and rooftop solar causes installed capacity to reach █ GW by 2035. Despite attractive economics, restrictive permitting limits onshore wind capacity to █ GW in 2035.			

Baseload price peaks at €/MWh in 2029, then gradually decreases, stabilising around €/MWh between 2040 and 2060

Baseload wholesale electricity price
€/MWh (real 2023)



Delta to previous forecast¹
€/MWh (real 2023)

- Compared to our previous forecast, the baseload price is  €/MWh lower on average from 2024–2029, mostly due to the short-term futures-driven decrease in commodity prices.
- From 2030 onwards, the current forecast lies  €/MWh on average above our previous forecast as slower onshore wind buildout, based on onshore wind pipeline and permitting limitations in the Czech market.



— Historical baseload — Baseload - - Previous baseload — Delta

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

Sources: Aurora Energy Research, ENTSO-E

Outlook for baseload prices


2024–2035

- Baseload price rises to a relative peak of  €/MWh in 2029, as retiring lignite capacity tightens the system. Prices then rebalance around  €/MWh in the early 2030s as CCGT and RES buildout combats rising commodity prices.

2036–2050

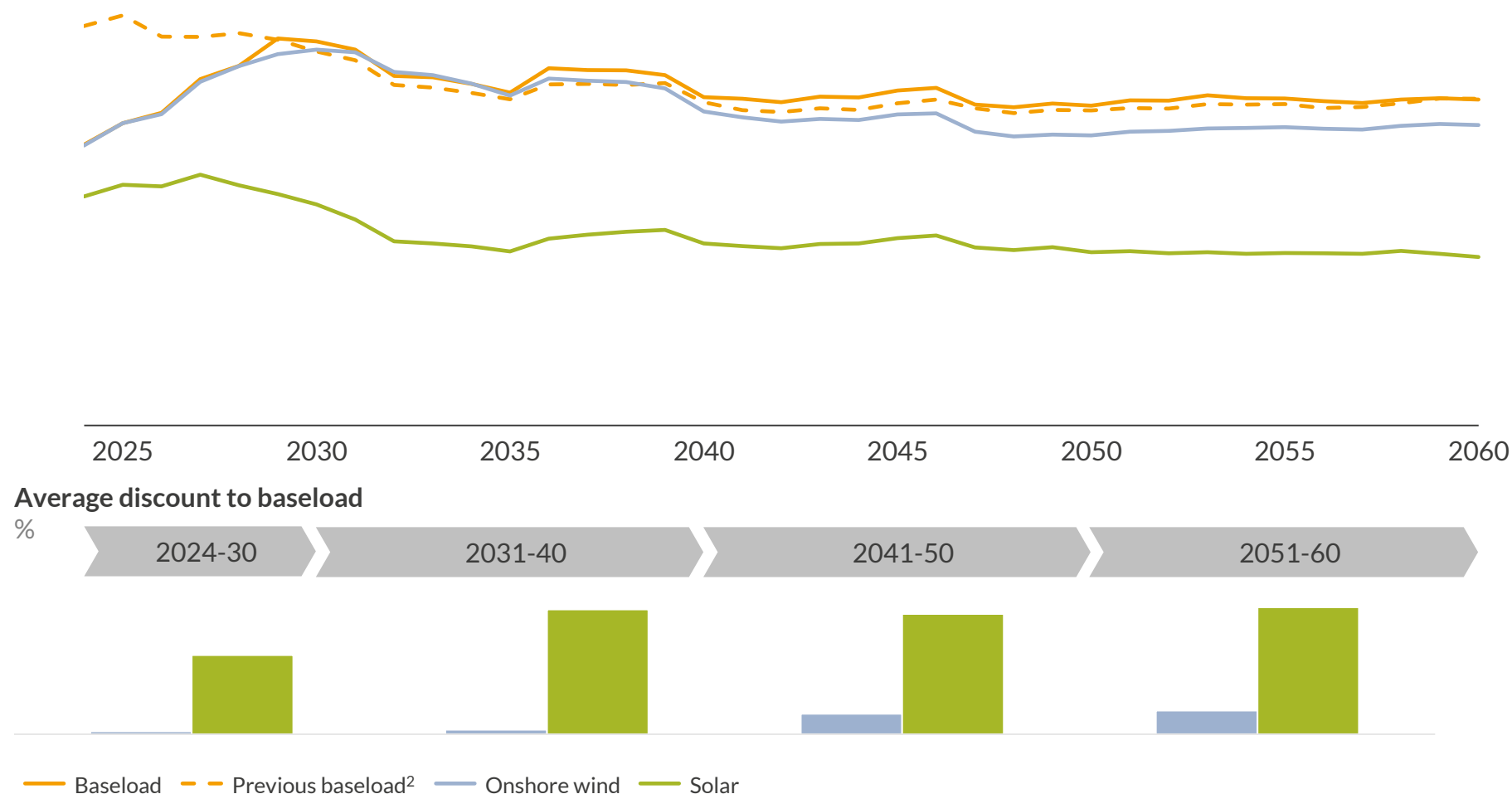
- After 2035, the switching of gas-fired capacities to hydrogen in Germany causes a jump in Czech baseload price.
- Nuclear capacity expansions at Dukovany and Slovak Bohunice in the 2040s drive Czech baseload price to fall and stabilise.

2051–2060

- Until 2060, baseload price averages  €/MWh as slowing demand growth is matched by unsubsidised solar PV buildout.

Solar profile costs rise dramatically over the next decade, driven by subsidised solar buildout in Czechia and neighbouring markets

Baseload and renewables capture prices¹
€/MWh (real 2023)



Onshore Wind

- Onshore wind capture prices are largely aligned with baseload prices, benefitting from high power prices in winter when most onshore wind generation occurs.
- Across the forecast, onshore wind buildout is restricted by Czech permitting procedures and geotechnical potential³, causing capture prices to be elevated.

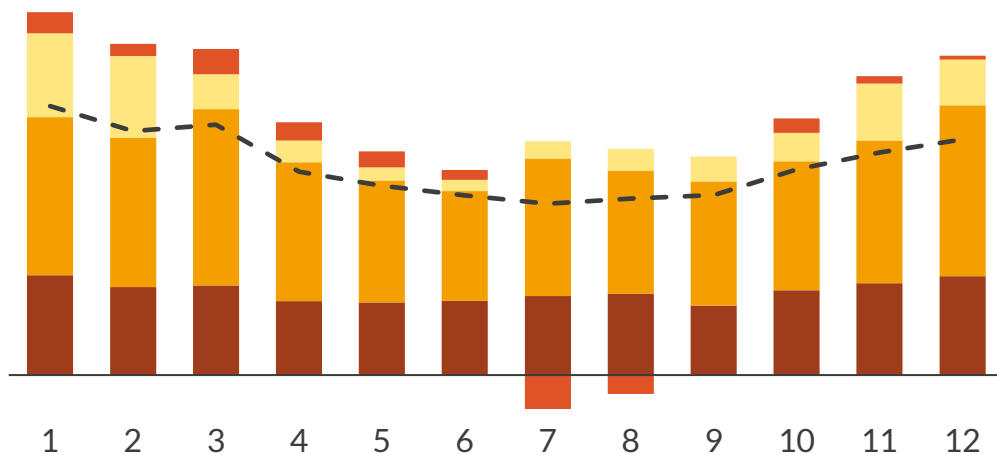
Solar

- Solar capture prices peak in 2027 at █ €/MWh, decrease to █ €/MWh in 2035, driven by subsidised solar buildout, then increase to 2040 as exhausted subsidies stall buildout.
- After 2040, solar capture prices stabilise around █ €/MWh as merchant investments replace retiring capacity. Capture price variation in the 2040s highlights the impact of new commissioned nuclear capacity at Dukovany.

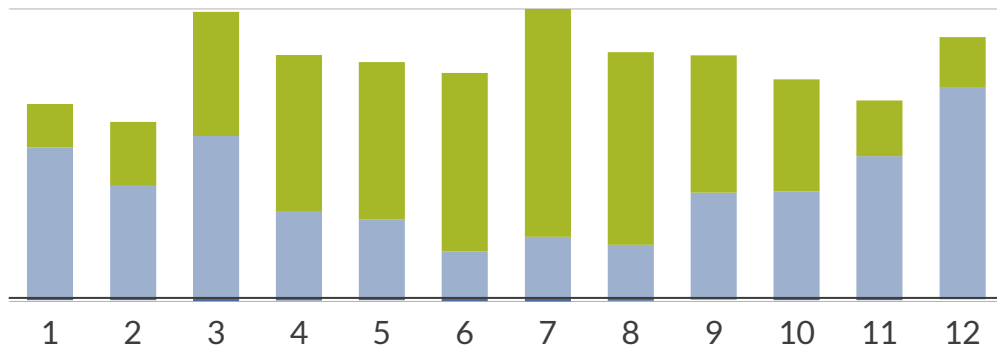
1) Uncurtail generation-weighted capture prices. 2) Refers to Aurora's preliminary market outlook for Czechia, presented during the 2nd workshop of the Czech and Slovak Multi-Client Study in Prague on 14 February 2024. 3) A maximum geotechnical onshore wind potential of 11GW, based on the results of the Academy of Sciences study and enhanced by anticipated technological development after 2040 and the public view of wind energy.

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

Monthly production 2040
TWh



Variable renewable production delta 2025-2040
TWh



- - Demand
 ■ Nuclear ■ Inflexible generation¹ ■ Net imports ■ Solar PV
 ■ Dispatchable generation² ■ Onshore Wind ■ Hydro

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

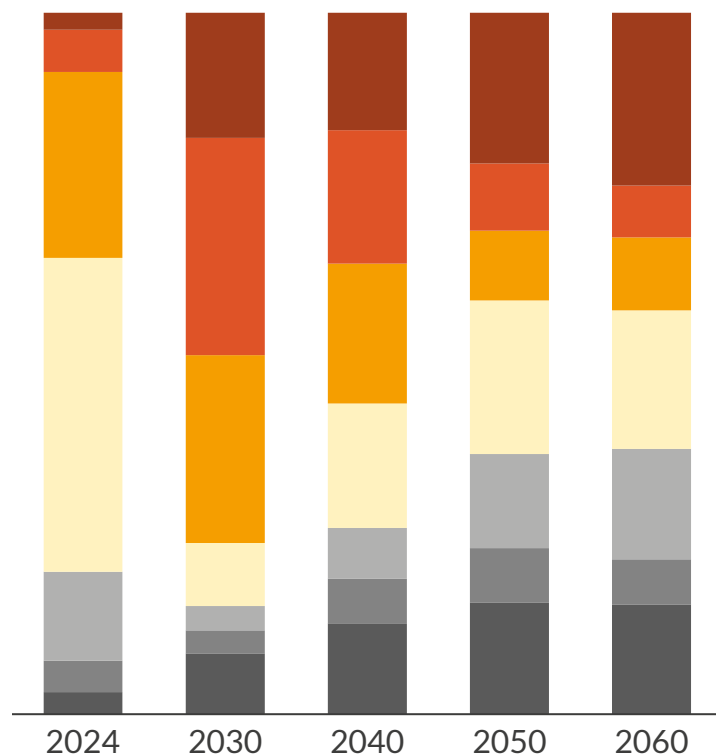
Monthly baseload price
€/MWh (real 2022)



- Inflexible generation in Czechia 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.
- Baseload prices in June 2040 are just █% of the 2025 value, with renewables and nuclear together exceeding the total monthly demand.
- Dispatchable generation and imports ensure that high demand is met in winter, when solar PV generation is minimal.
- 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.

Price volatility rises strongly by 2030 as lignite is retired and solar built, before falling once additional flexibility enters the market

Frequency distribution of the electricity price (real 2023)
%

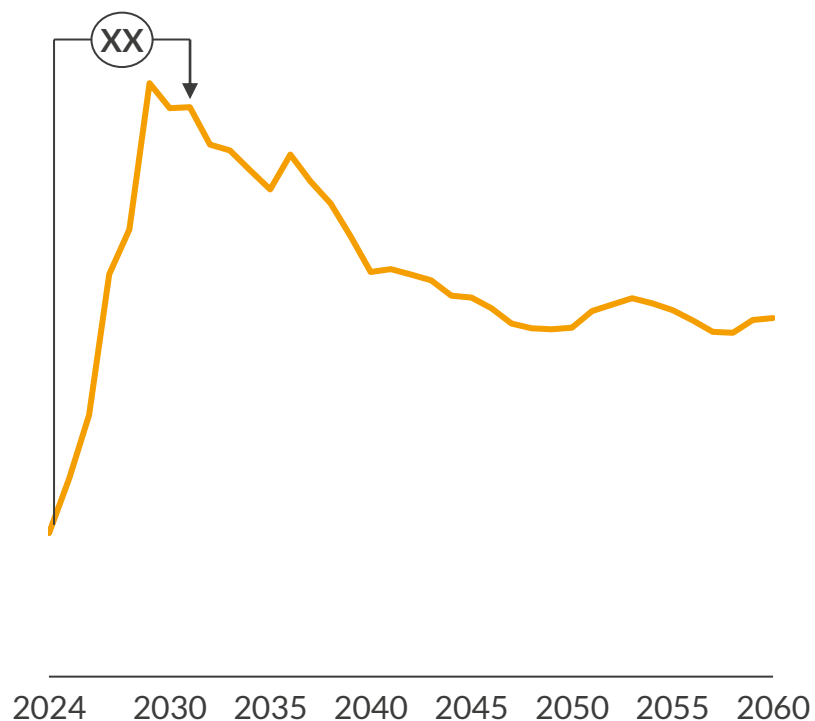


Standard Deviation €/MWh (real 2022)



<20 €
 20-40 €
 40-60 €
 60-80 €
 80-100 €
 100-120 €
 >120 €

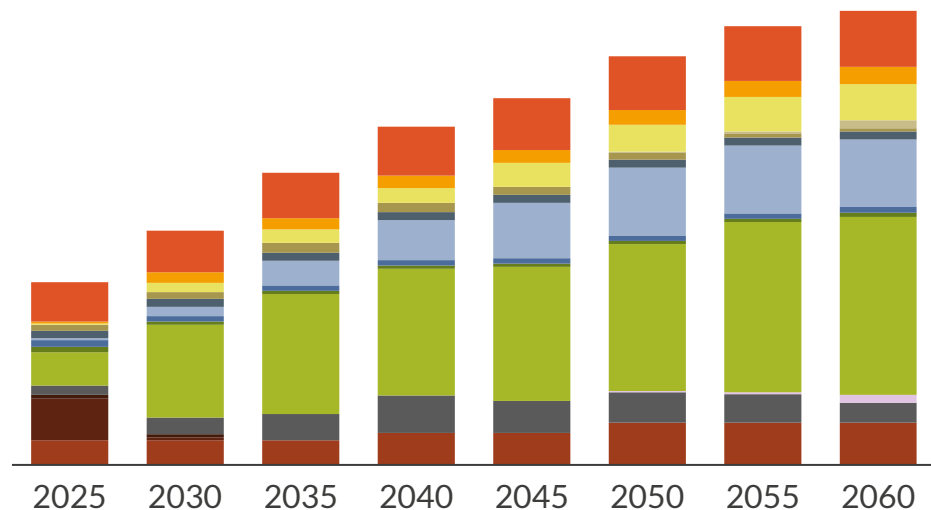
Average daily 1h spread in Day-Ahead market
€/MWh (real 2023)



- The retirement of lignite capacities 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 causes █ % of hours to be prices below █ €/MWh by 2040.
- Together, these factors lead to 1-hours spreads above █ €/MWh from 2027 onwards, creating an attractive case for battery investments.
- In the long term, the slowdown in solar investment and the uptake of new dispatchable capacities (inc. batteries), flexible demand and nuclear reduce keep below █ €/MWh.

Czech renewables capacity reaches █ GW by 2035, motivated by attractive subsidies, allowing renewables to cover █% of generation

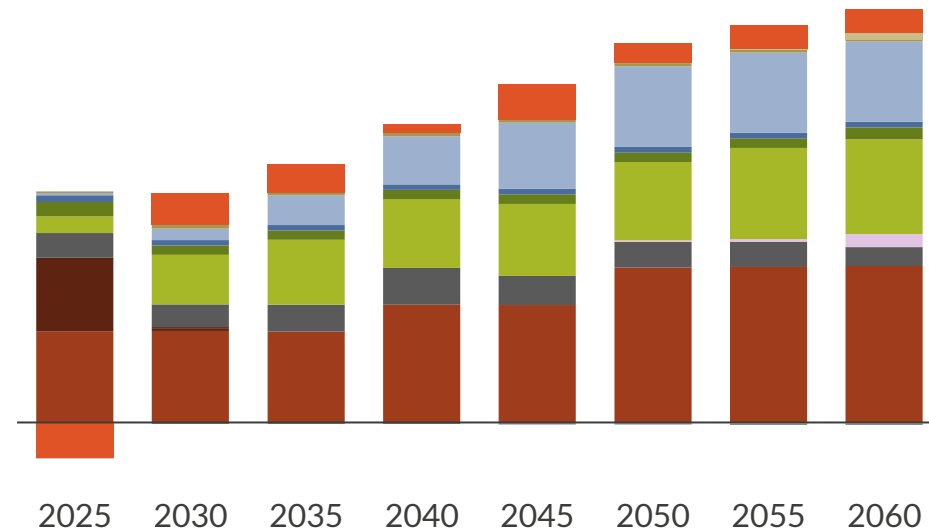
Installed capacity
GW



- 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.
- Lignite capacity falls from █ GW in 2024 to █ GW in 2030, as units become uneconomic. New investments come mostly in the form of gas CHPs, peaking units and batteries, with dispatchable capacity¹ reaching █ GW by 2060.
- Nuclear capacity rises to █ GW with new units at Dukovany and Temelín.

█ Nuclear █ Coal █ Hydrogen CCGT █ Other RES █ Onshore wind █ Gas / oil peaker █ Battery storage █ Interconnectors
█ Lignite █ Gas CCGT █ Solar █ Hydro █ Pumped storage █ Hydrogen peaker █ DSR

Electricity production and net imports
TWh



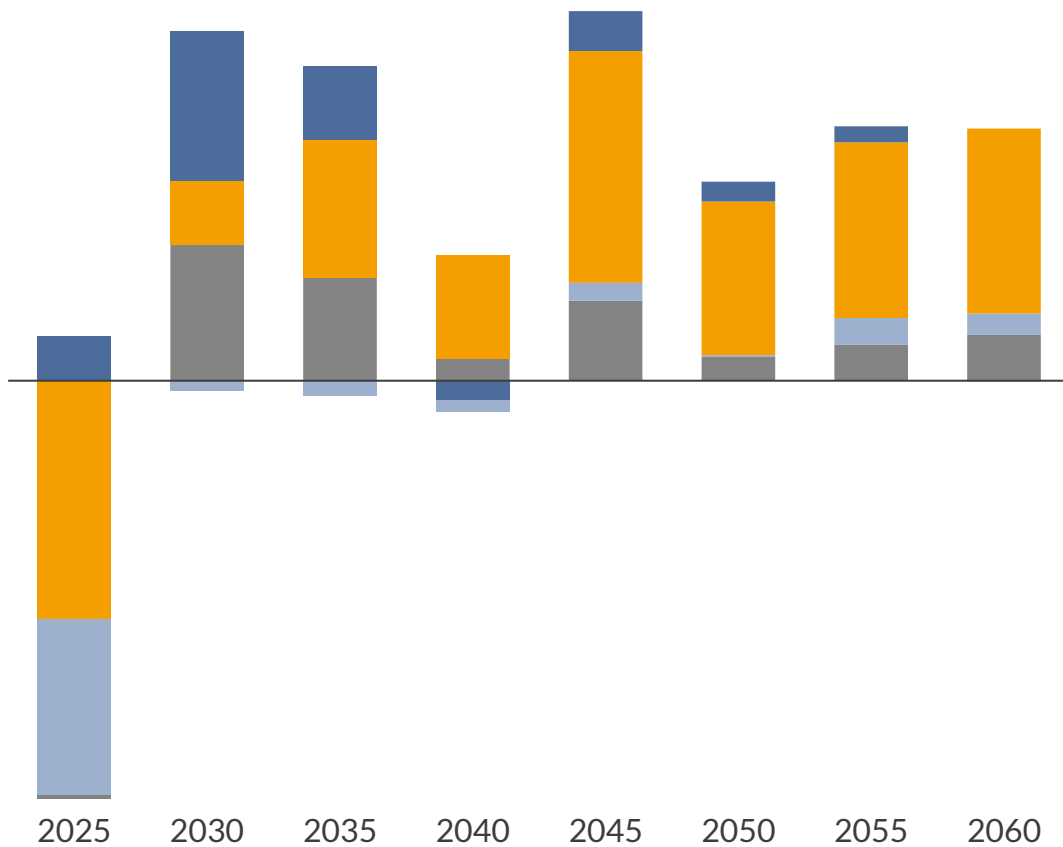
Low carbon share of net demand²

- % XX% XX% XX% XX% XX% XX% XX% XX% XX%
- Total power generation is expected to rise to █ TWh in 2060 (a █% increase from 2024).
 - Renewable generation increases by █ TWh in the period to 2060, rising from a █% share of power demand in 2024 to a █% share in 2060.
 - Czechia, currently a net exporter, becomes a net importer in the late 2020s.

1) Dispatchable capacity includes lignite, hard coal, gas CCGT, oil/gas peaker, hydrogen CCGT, hydrogen peaker, biomass, battery storage, DSR and pumped storage capacity. 2) Low carbon generation includes nuclear and renewables.

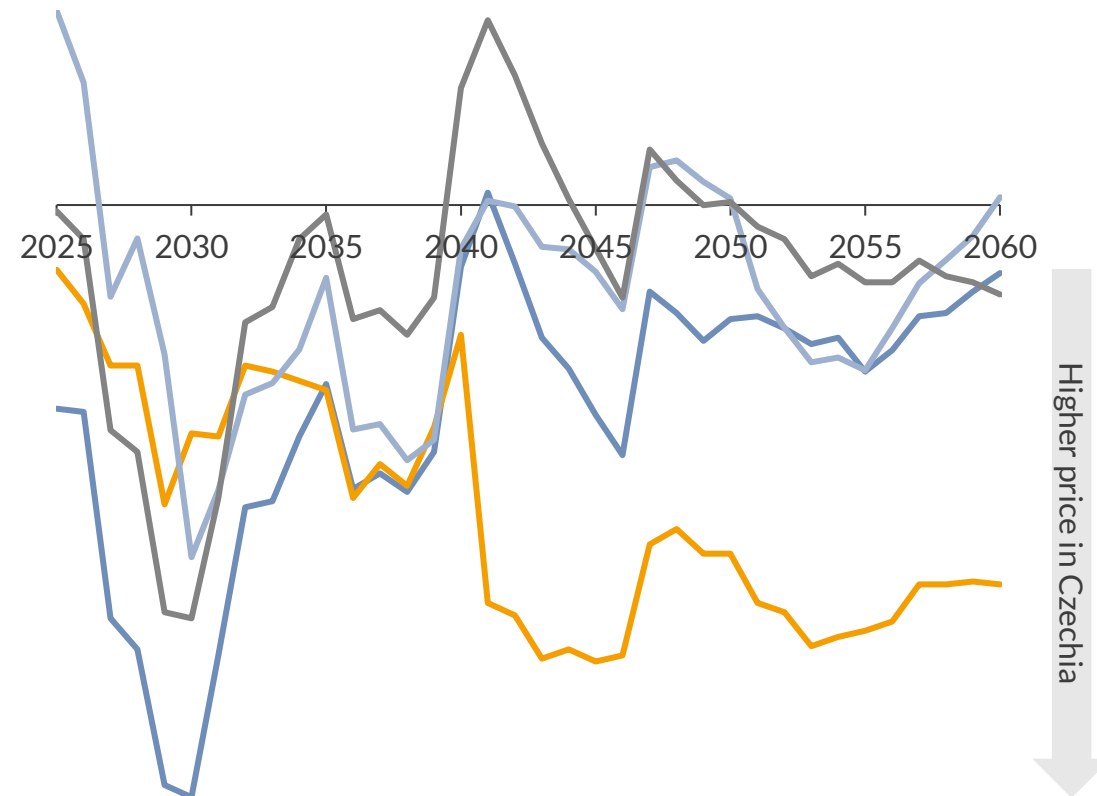
Lignite closure and insufficient new investments push Czech prices above neighbouring markets by 2030, leading to TWh of imports

Net annual commercial export flows to CZE
TWh



Germany Slovakia Poland Austria

Average annual delta to CZE baseload electricity prices
€/MWh (real 2023)



Higher price in Czechia

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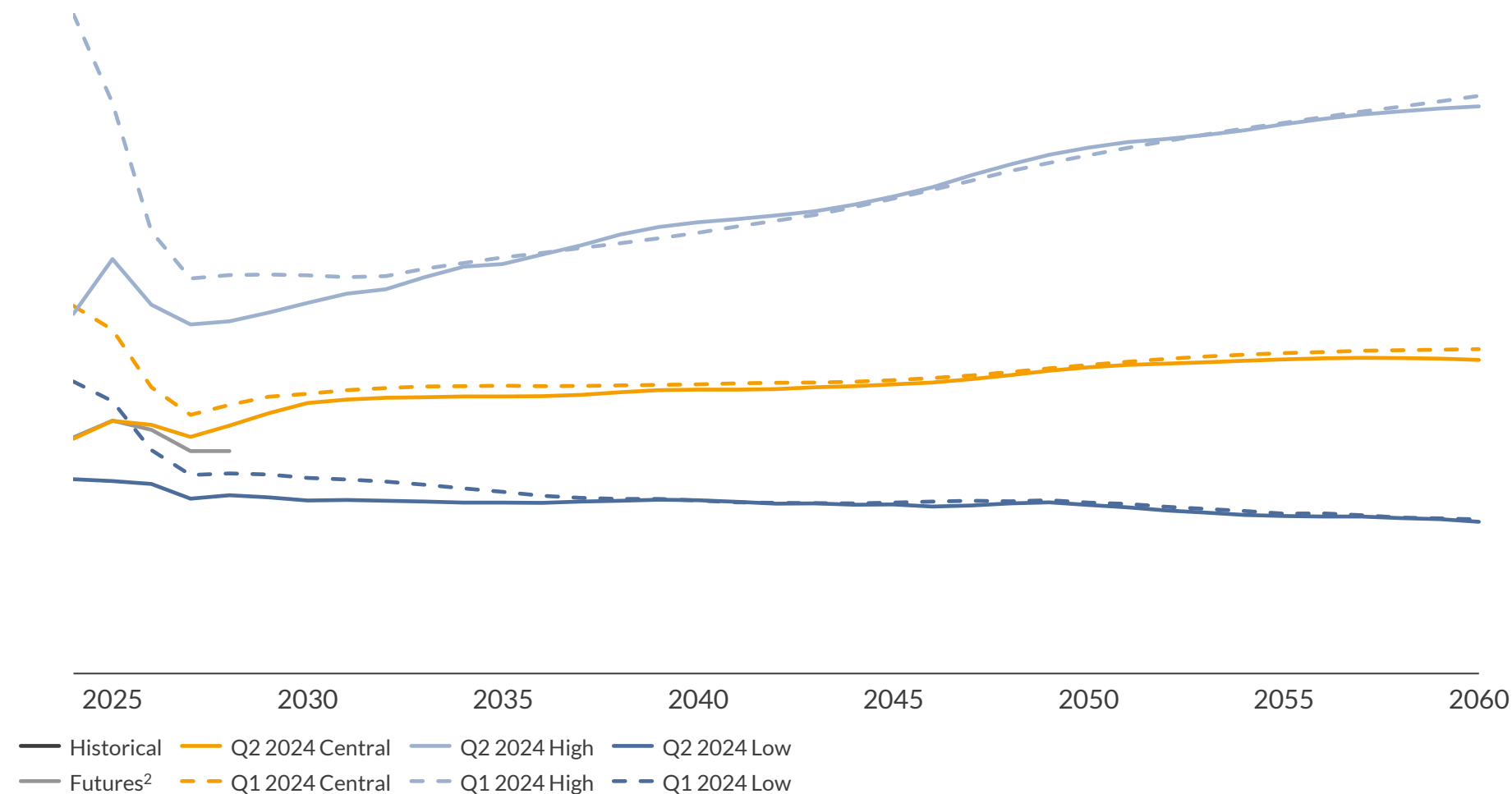
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Gas prices in Europe stabilise by 2027, as more LNG is available in the global markets, then climb driven by ramping demand in Asia


Natural gas prices
€/MWh (real 2023)¹




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. For gas, THE historical and futures prices are shown.

Sources: Aurora Energy Research, EEX, CME

2024-2027

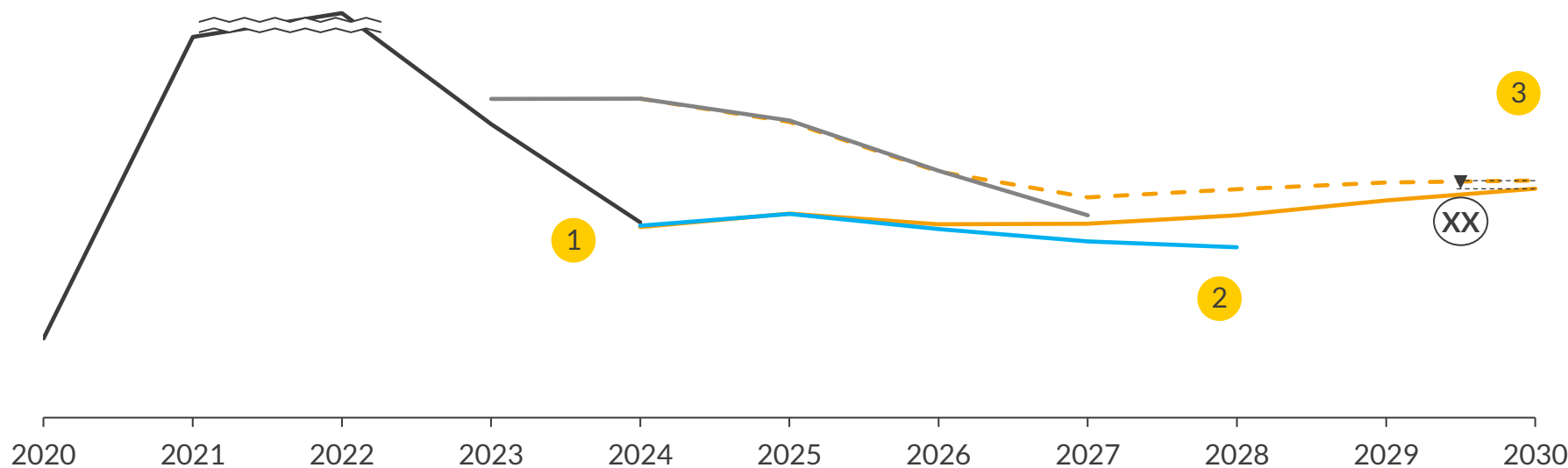
- The gas price averages €/MWh in 2024-2027,  % lower than the previous forecast due to mild weather, robust supply, and high stocks.
- After 2025, prices fall as additional LNG import capacity in Europe comes online and global export capacity expands.

2028-2060

- The gas price averages €/MWh in 2028-2060,  % lower than the previous forecast.
- Prices rise by 2030 amid consistent 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
€/MWh (real 2023)



Why did 2024 futures drop by █% since our January report?

Q4 2023		Q1 2024	
Europe's industrial gas demand over winter was particularly low, resisting recovery from a year earlier.	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.	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.

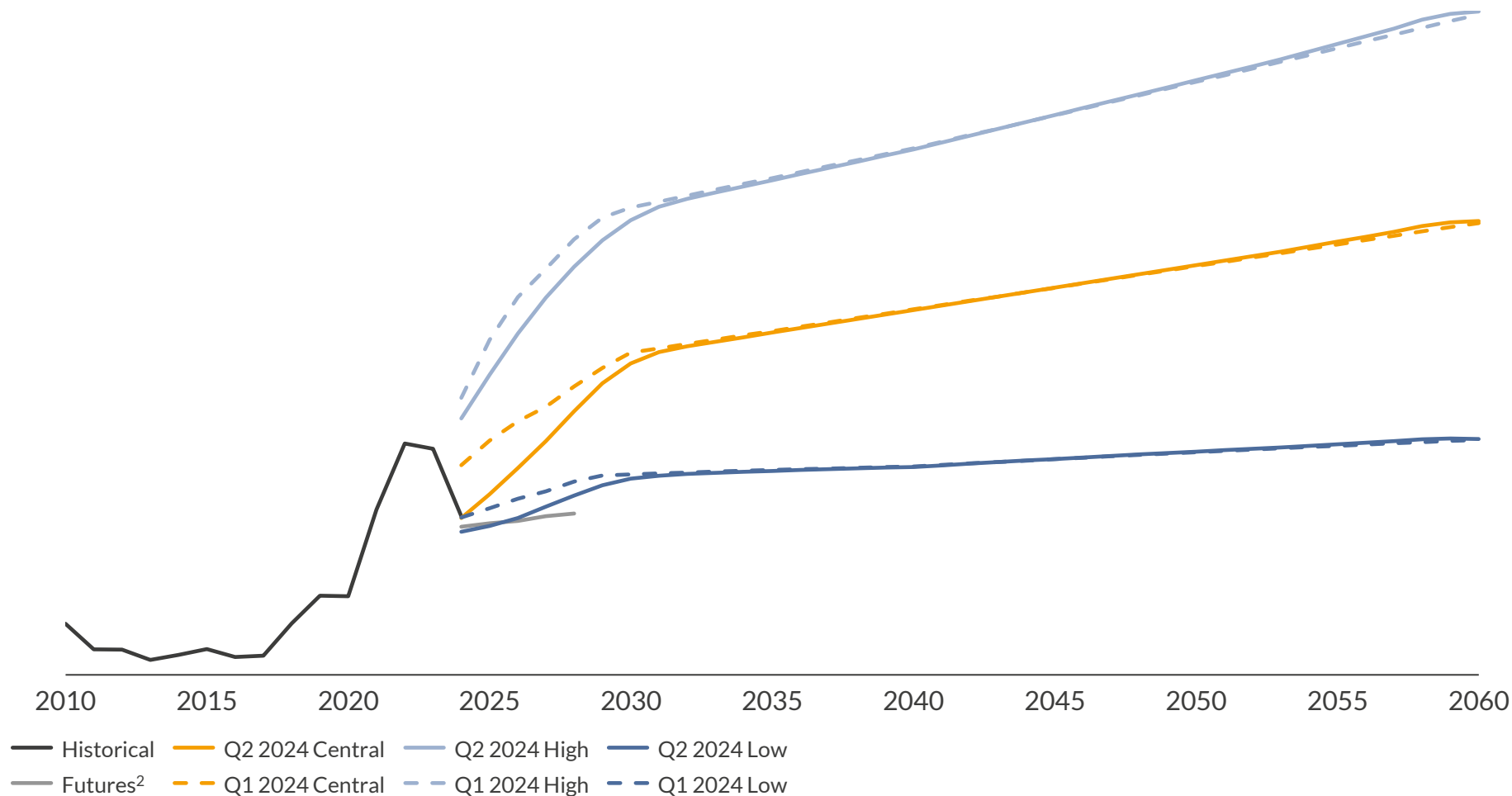
Sources: Aurora Energy Research, EEX, Carbon Pulse, Bloomberg, Petroleum Economist, Financial Times, Business Green, European Commission

- 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.
- 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.
- 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

Carbon prices

€/tCO₂ (real 2023)¹



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

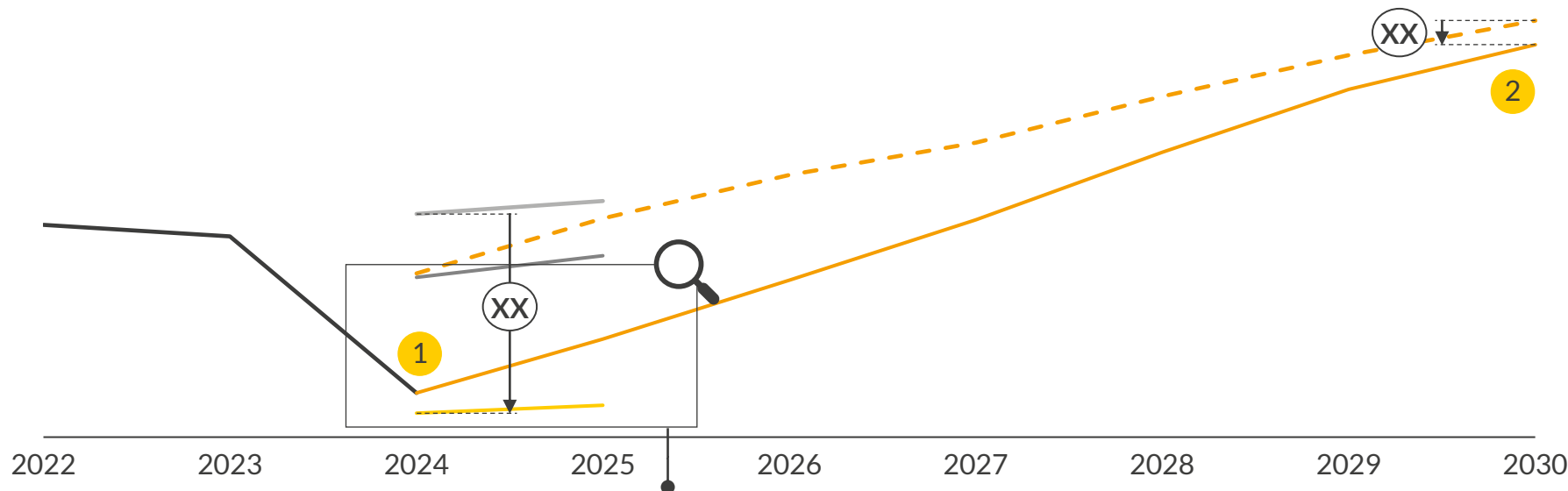
- Carbon prices average █ €/tCO₂, █% down from our previous forecast, due to weaker economic activity from the EU's manufacturing sector.
- The drop in prices is driven by lower futures prices, higher cost of capital, and slower economic recovery for some sectors.

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 █% for 2024 while we only expect █% lower prices by 2030 compared to our January forecast

Carbon price
€/tCO₂ (real 2023)



Why did futures drop by █% since October?

Q2 2023	Q4 2023	Q4 2023	Q1 2024	Q1 2024
Announcement that frontloaded EUAs will be auctioned 2023-2025 to fund RePowerEU	German industrial output drops, particularly for high emitting sectors	ECB rates remain high at █% despite lower inflation expectations	Gas prices continue to drop, keeping emissions from the power sector low	Extension of compliance deadline eases short-term demand

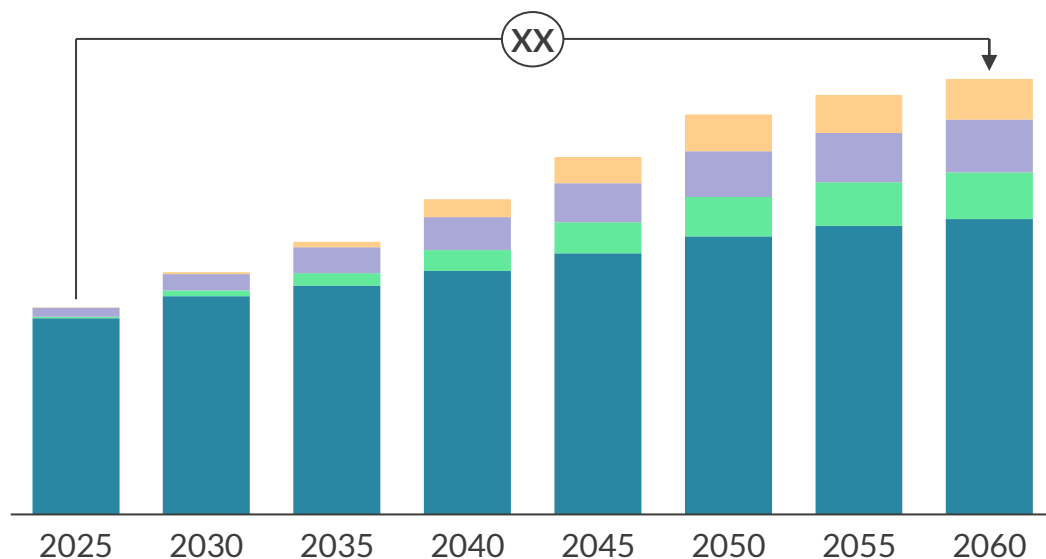
— Historical — Apr 24 Central — Jan 24 Central — Futures Mar 24 — Futures Dec 23 — Futures Oct 23

Deep-dive on next slide

- 2024:** Driven by the drop in futures, we revised our short-term forecast of carbon prices downwards by █%
- 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

Czech annual power demand reaches █ TWh in 2060, decreasing by █ TWh compared to our previous forecast due to lower industrial energy intensity

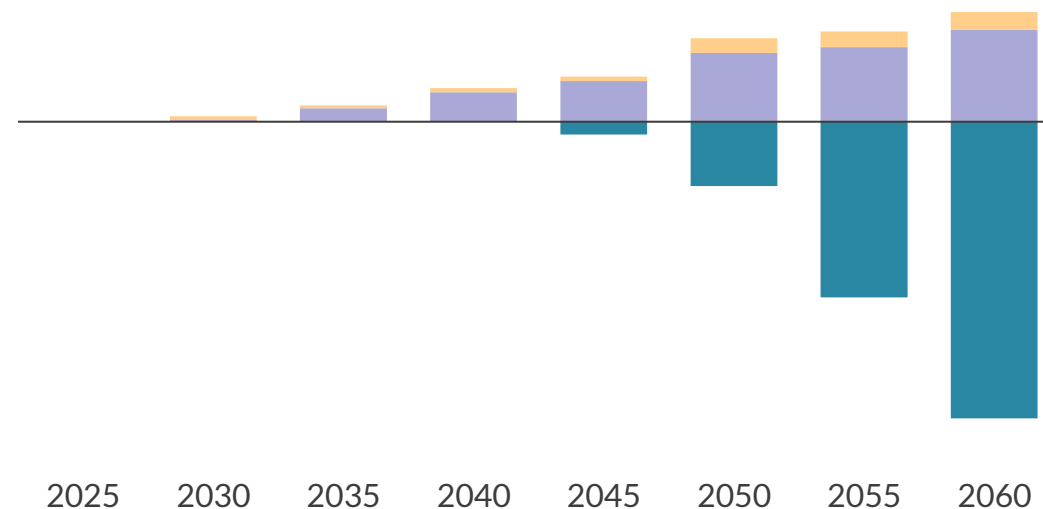
Net annual power demand by type¹
TWh



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

█ Base demand █ EV demand █ Electric heat demand █ Electrolyser demand

Delta in net annual power demand compared to previous forecast²
TWh



- Total annual demand remains largely aligned with our previous forecast in the short- to medium-term, increasing on average by less than █ TWh until 2050, before the total delta reaches to █ TWh in 2060.
- Electric heat demand increases by █ TWh in 2060 due to an assumed greater role played by large-scale heat pumps in district heating, within our model.
- Base demand decreases by █ TWh in 2060 compared with our previous forecast, caused by assumed reductions in long-term energy intensity in the industrial, commercial, and domestic sectors.

1) Net power demand includes sectoral demand (i.e., industry, commerce, transport and households) as well as transmission losses. Power plant self-consumption and demand from efficiency losses of storage are excluded. 2) Refers to Aurora's preliminary market outlook for Czechia, presented during the 2nd workshop of the Czech and Slovak Multi-Client Study in Prague on 14 February 2024.

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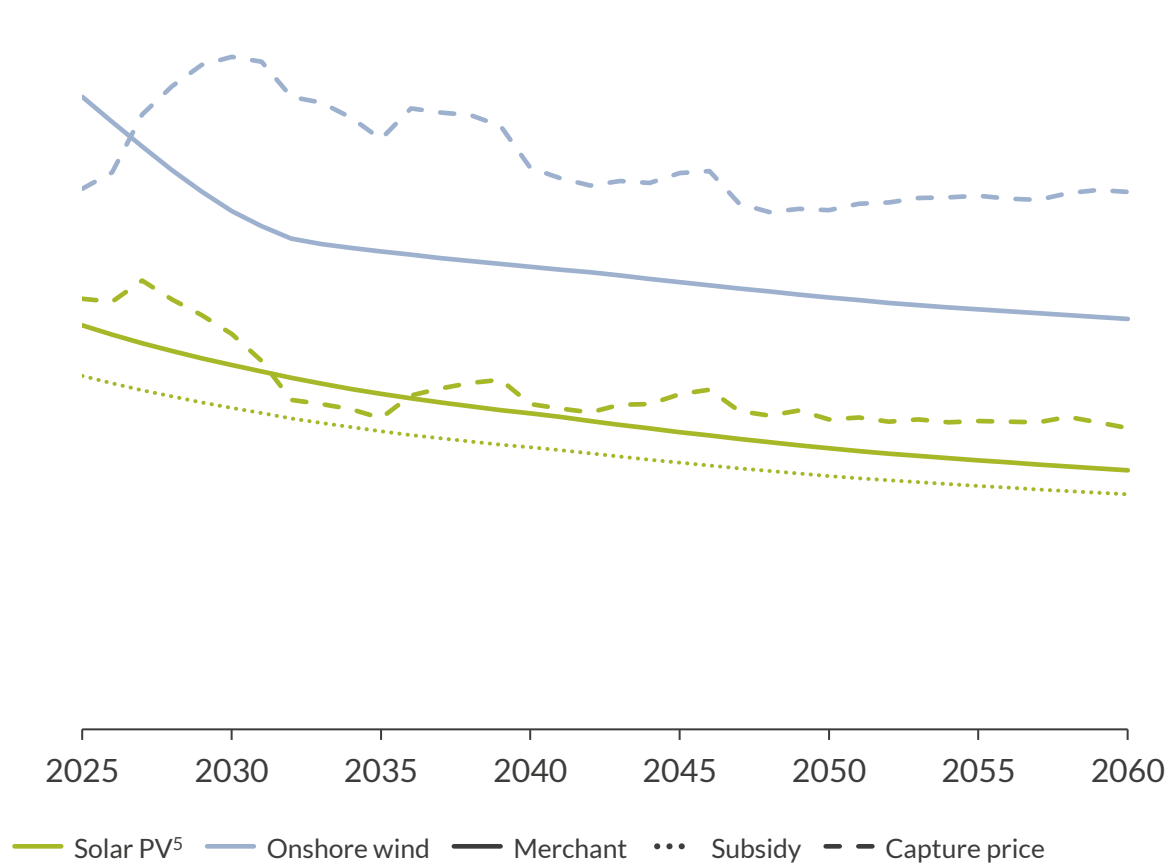
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Capture prices remain above the merchant LCOE for onshore wind, whereas solar relies on subsidies to enable buildout until the 2040s

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)

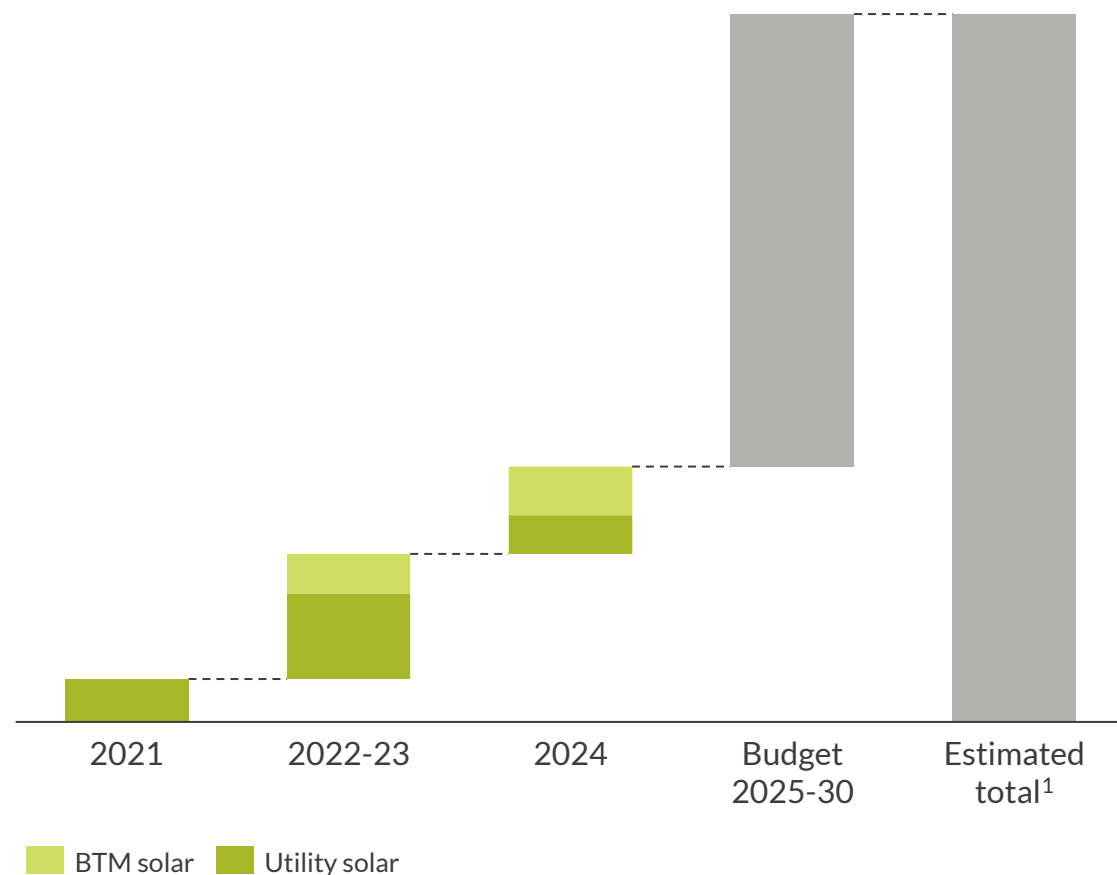


Technology	Parameter	Assumption
 Onshore wind	Size	100 MW utility scale
	Lifetime	27 years
	Load factor ²	■%
	WACC (merchant/PPA) ³	■% / ■%
 Solar PV (fixed bifacial)	Size	50 MW utility scale
	Lifetime	30 years
	Load factor ²	■%
	WACC (merchant/PPA) ³	■% / ■%
	Assumed subsidy intensity ⁴	■%

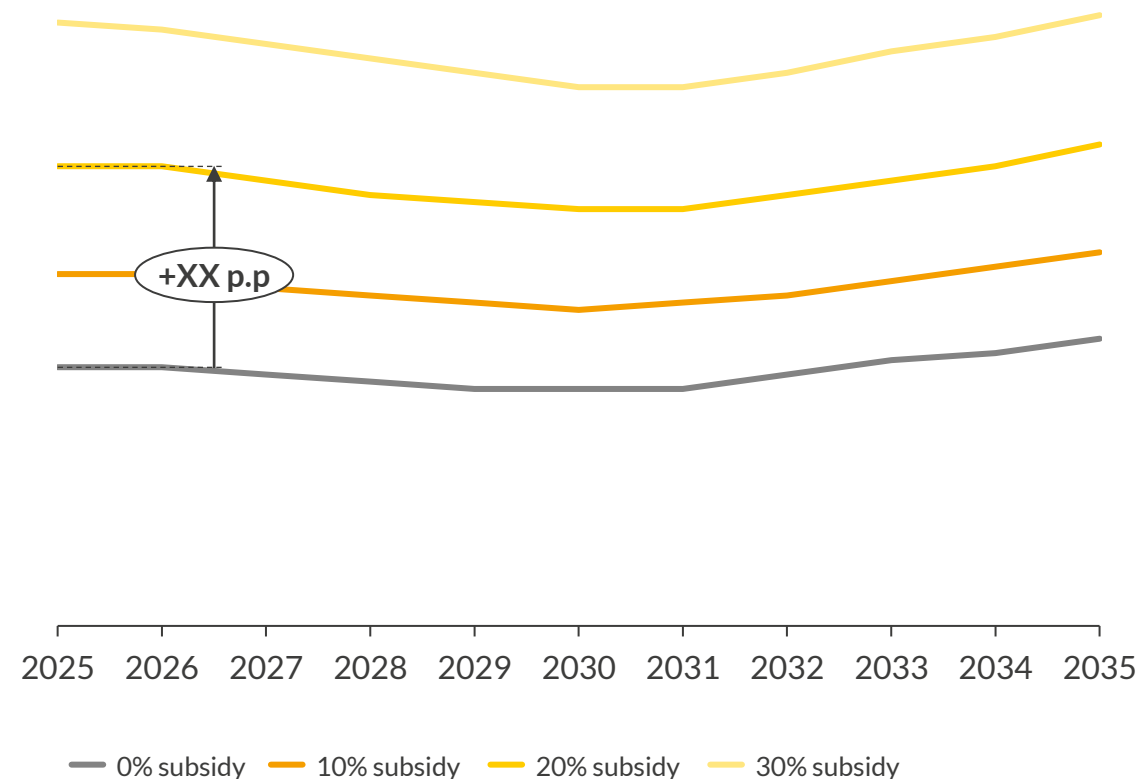
1) LCOEs for a representative newbuild asset pre-curtailment, for different commercial operation dates. Wind assets assume a 2-year construction period, and 1-year for solar assets. 2) Load factor increase assumed due to higher hub heights and larger rotor diameters for wind technologies, and greater penetration of bifacial solar cells for solar PV. 3) WACCs are in real terms and pre-tax. 4) Assumed proportion of CAPEX covered by investment subsidy. 5) Fixed bifacial solar PV.
Sources: Aurora Energy Research

2 bn EUR of RES+ subsidy remains available to solar and co-located storage; a █% subsidy intensity enables IRRs around █%

RES+ tendering round budget allocation
bn EUR (real 2023)



Solar IRR² by COD year
%



1) Subsidy amount is dependent on the Modernisation Fund and therefore EU ETS price development. 2) Project IRR, real, pre-tax.

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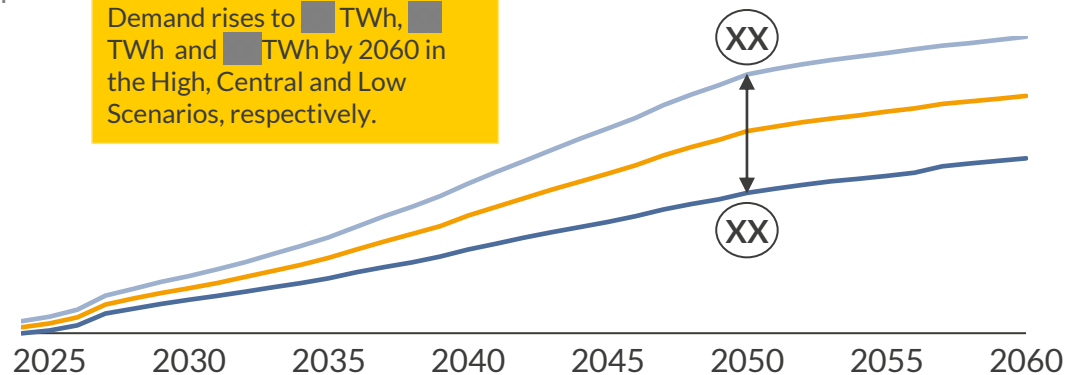
Our High/Low Scenarios are constructed using plausible deviations in power demand, CAPEX and commodity prices

A Power demand (base, transport, heat)

Annual power demand

TWh

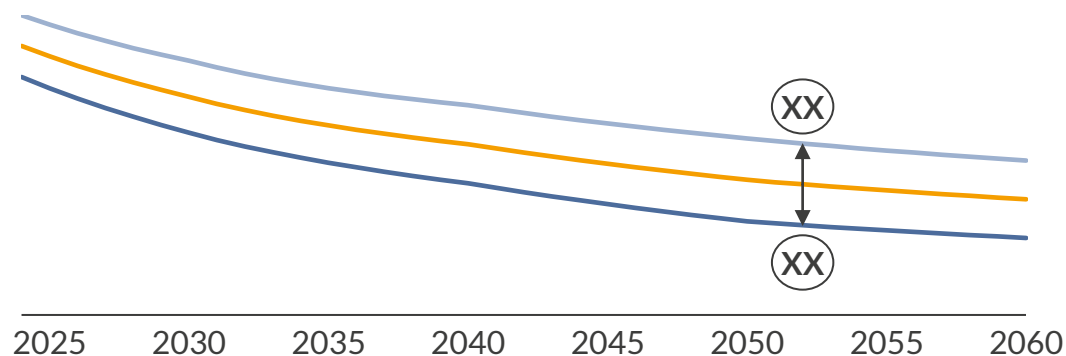
Demand rises to  TWh,  TWh and  TWh by 2060 in the High, Central and Low Scenarios, respectively.



B CAPEX (solar, wind, battery)

Solar PV CAPEX¹

€/kW (real 2023)



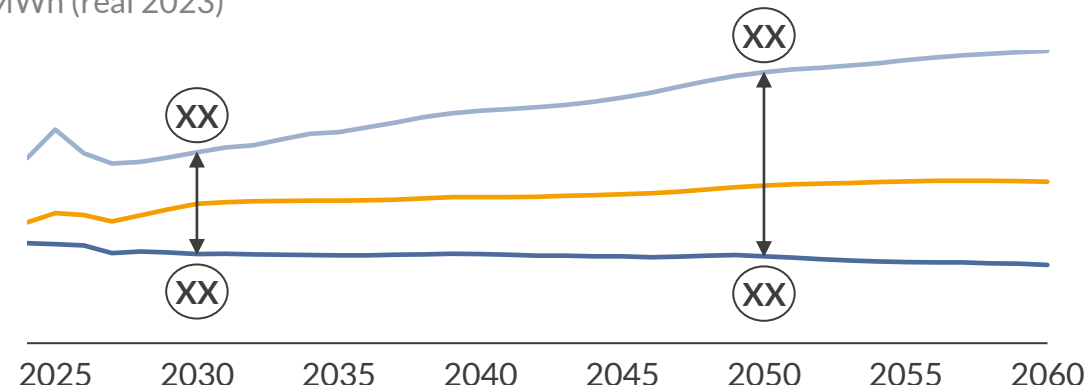
— Central — High — Low

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

C Commodities prices (gas, carbon, hydrogen)

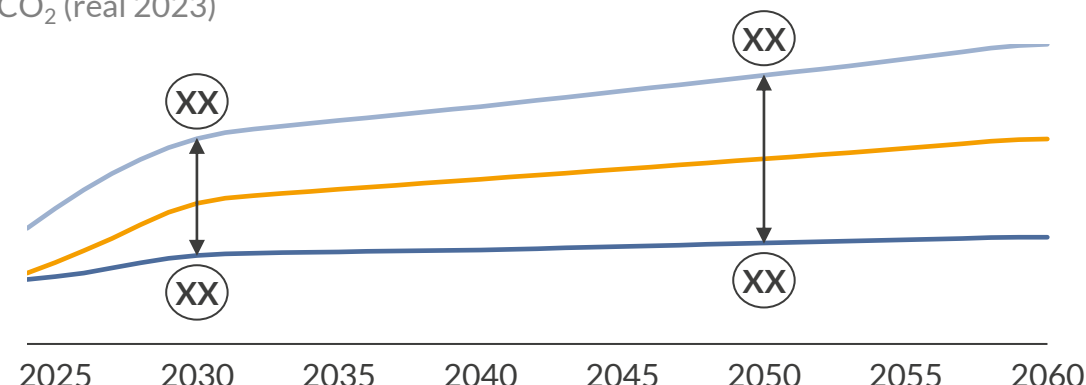
Gas prices

€/MWh (real 2023)



EU-ETS carbon prices

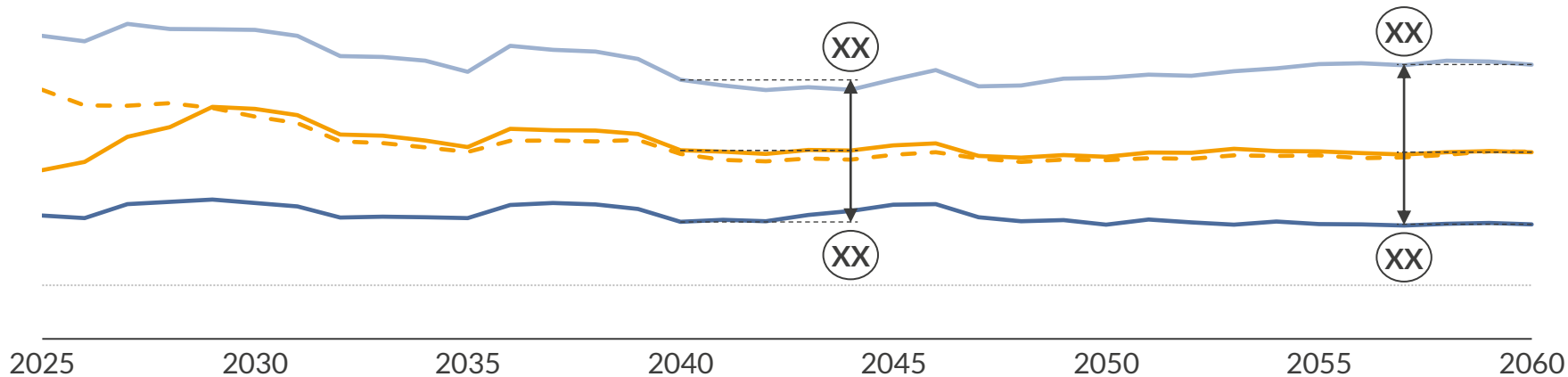
€/tCO₂ (real 2023)



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

Baseload wholesale electricity price

€/MWh (real 2023)



— Historical baseload — Central — Low — High

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

High

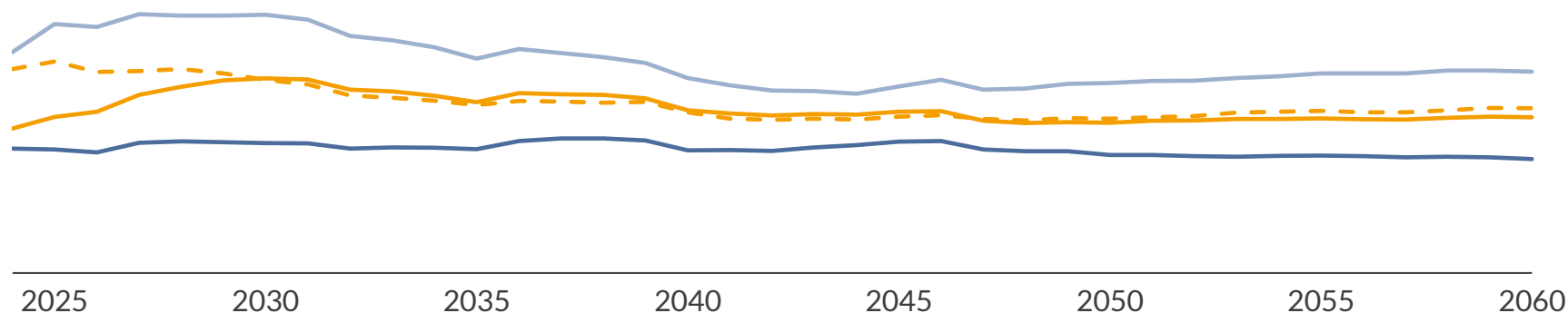
- The baseload price trajectory increases sharply between 2024 and 2025 and remains elevated at an average of █ €/MWh until 2031. Until 2060, the High baseload price averages at █% above the Central Scenario.
- Higher demand increases the tightness of the system, and elevated commodities prices further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

Low

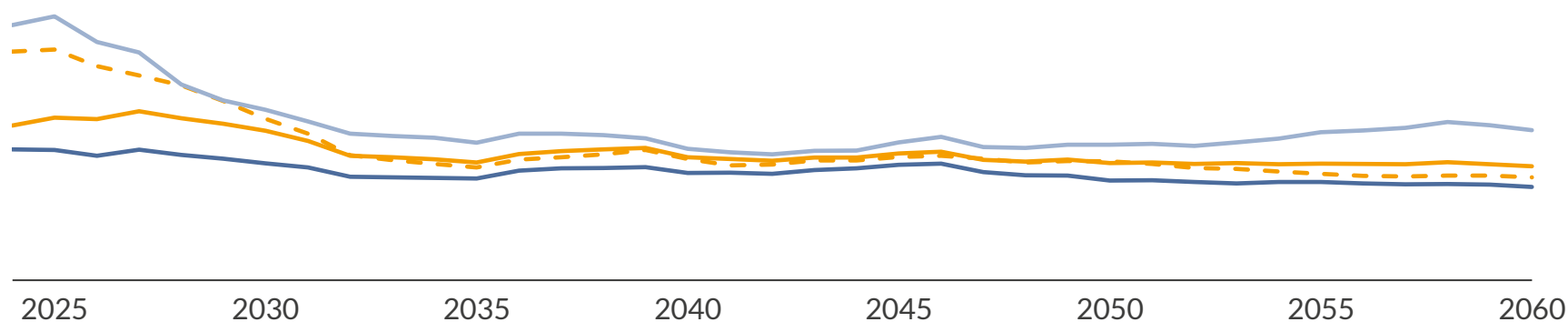
- The Low Scenario baseload price trajectory is depressed at an average of █ €/MWh: █% below the Central Scenario.
- The sustained low price-trajectory in this scenario is driven by low commodities prices, decreased renewables CAPEX and weak power demand.

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)



— Central — High — Low — Current - - Previous²

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

Sources: Aurora Energy Research

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 Low, compared with Central, after 2030.

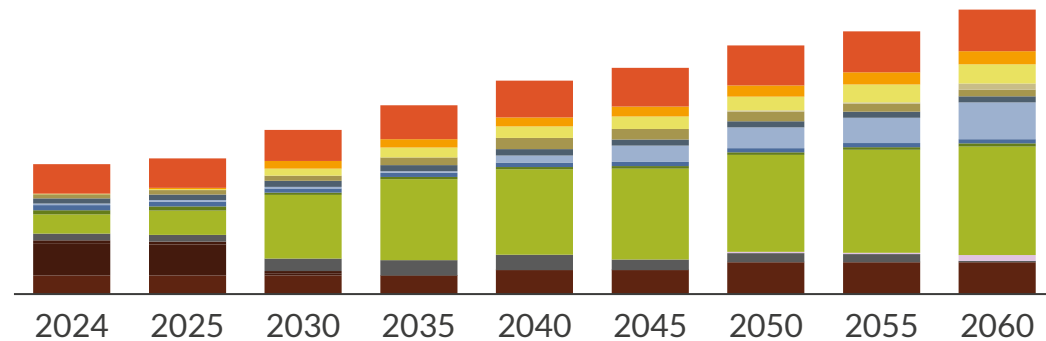
Solar

- 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 subsidised solar buildout.
- Post-2050, exhaustion of onshore wind buildout in High heightens baseload and solar capture price.

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

1 Low Scenario

Installed capacity
GW

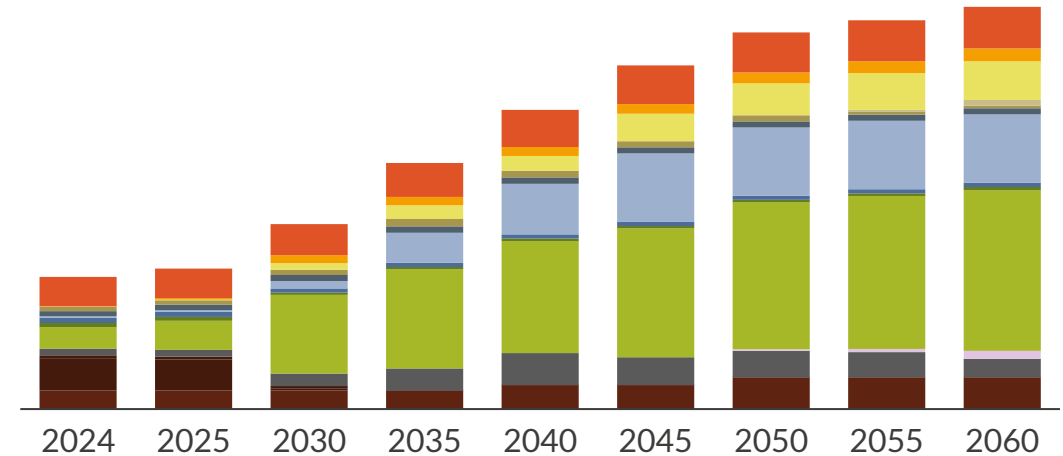


- Solar PV buildout is mostly restricted to subsidised capacities benefitting from the RES+ scheme, and as retiring subsidised capacity is replaced at the end of the forecast, further solar buildout is limited.
- Onshore wind buildout occurs across the whole forecast, but the capacity in 2060 fails to utilise even ■% of the maximum geotechnical potential.
- Reduced demand in Low means that the addition of thermal capacity focuses on peaking plants, as CCGTs are not economic.

■ Nuclear ■ Coal ■ Gas CCS ■ Solar PV ■ Hydro ■ Pumped storage ■ Hydrogen peaker ■ DSR
■ Lignite ■ Gas CCGT ■ Hydrogen CCGT ■ Biomass/ other RES ■ Onshore wind ■ Gas / oil peaker ■ Battery storage ■ Interconnectors

2 High Scenario

Installed capacity
GW



- Renewable capacity increases by ■ GW, a ■% increase, between 2024 and 2060, with subsidised solar buildout in the first half of the forecast met with merchant solar and onshore wind buildout throughout.
- We assume that regulatory adjustments allow permitting of further onshore wind buildout compared to Central, with capacity reaching ■ GW in 2060.
- Increased demand in High drives thermal capacity procurement, with an additional ■ GW of gas CCGT capacity in 2040 compared with Central.

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- III. Investing in solar
- IV. Key market uncertainties: Our High/Low Scenarios
- V. Key takeaways

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- 1** Baseload prices have slumped with commodity markets, but will rise to a level of █ €/MWh by 2030. Afterwards investments into renewables, gas and later nuclear stabilise prices around █ €/MWh.
- 2** Lignite capacity falls to █ GW, while solar capacity reaches █ GW by 2030. This leads to a scarce and volatile system, with █ % of prices exceeding █ €/MWh and 1-hour daily spreads reaching █ €/MWh.
- 3** Retiring lignite capacity is replaced by █ GW each of batteries and DSR, as well as █ GW of gas entering by 2035. Generation is replaced largely by █ TWh of additional solar and onshore wind and a switch from █ TWh net exports to █ TWh net imports by 2035.
- 4** Fast buildout leads solar capture prices to fall to █ €/MWh by 2035, leaving projects reliant on Capex subsidies from the RES+ scheme. A 20% subsidy intensity can secure a █ % IRR for a project entering in 2028.
- 5** Baseload prices are around █ % lower under our Low Scenario, leading to solar capture prices stabilising between █ and █ €/MWh after 2030 and onshore wind capture prices remaining between █ and █ €/MWh throughout the forecast.

Czech Power & Renewables Forecasts:

Dive into key market analysis and forecasts for the Czech 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 Czech market
- **Ongoing support** from our bank of analysts, including native speakers and on-the-ground experts

Details and disclaimer

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