

The Kraftwerkssicherheitsgesetz and the future of gas power plants in Germany

Public report

October 2024



Agenda



I. Introduction

- II. The Kraftwerkssicherheitsgesetz and its design parameters
- III. Implications for asset economics
- IV. System-impact of the Kraftwerkssicherheitsgesetz
- V. Summary of findings

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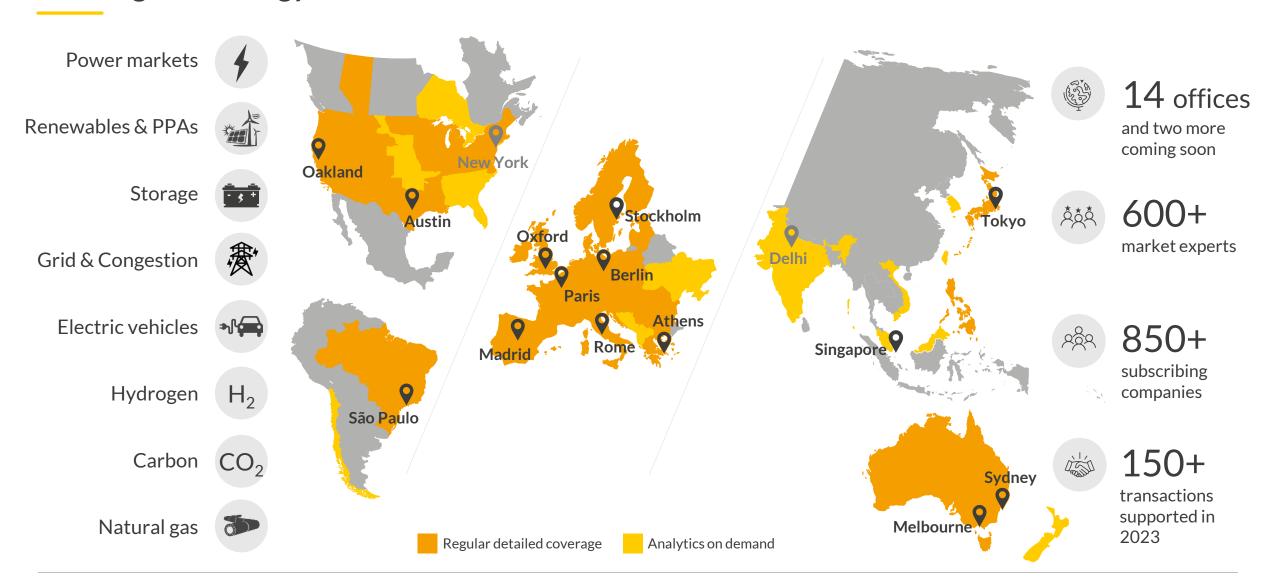
For access to the full report of our recent study, reach out to Nicolas Leicht (<u>nicolas.leicht@auroraer.com</u>).

Deliverables comprise an extensive report and a databook with detailed modelling results, assumptions, asset impact and sensitivities.



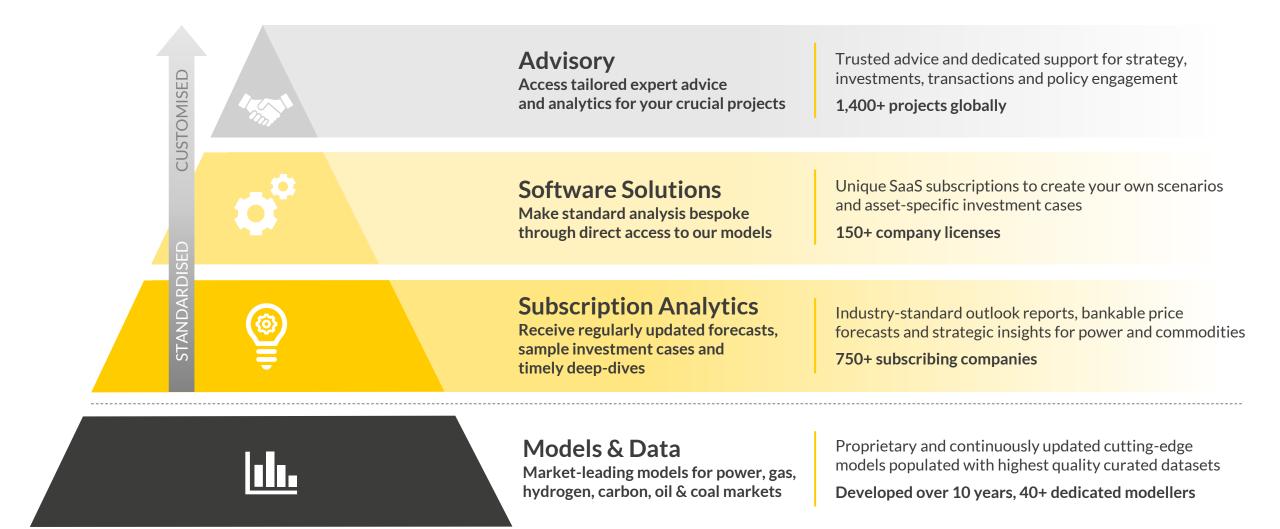
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Introducing Aurora's project team













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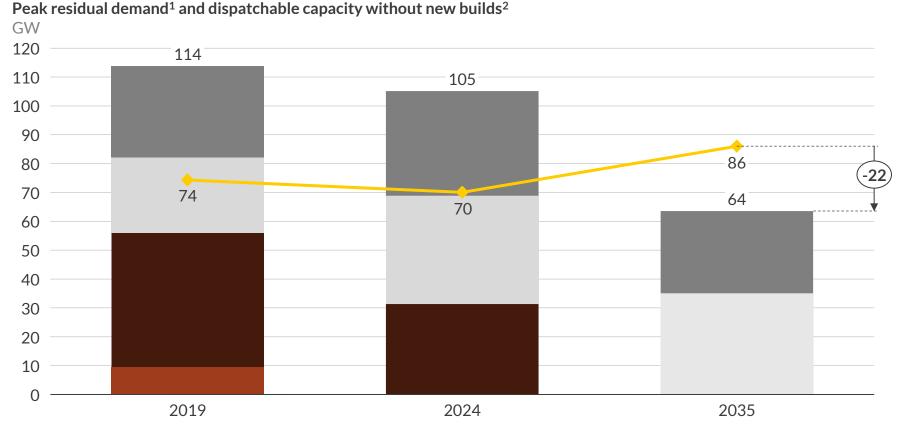
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Without new builds, the coal exit and rising demand lead to a 22GW gap between peak residual demand and dispatchable capacity by 2035





Share of peak residual demand¹ covered by dispatchable capacity



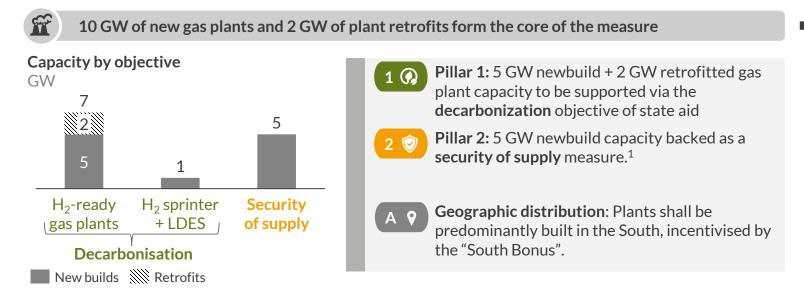
1) Peak residual demand refers to total net demand minus wind and solar generation. 2) Based on the Aurora Central scenario, but no buildout of non-CHP power plants is assumed. 3) Includes gas CCGTs and peakers. 4) Includes hydro, biomass, pumped storage, battery, and other thermal (i.e., waste plants and on-site industrial thermal power plants). Sources: Aurora Energy Research, BNetzA

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- In the past, the German power system was characterised by overcapacity, with dispatchable capacity significantly exceeding peak residual demand.
- Due to the coal exit, 40% of the currently installed dispatchable capacity (i.e. 31GW of hard coal and lignite) is expected to leave the system by the early 2030s.
- Simultaneously, increasing electrification of industry, transport, and heat as well as the domestic production of green H₂ drive up peak residual demand by 23% (16GW) between now and 2035.
- Significant buildout of new dispatchable capacity is needed to reduce this gap and ensure security of supply. At the same time, these new assets need to be able to decarbonise swiftly to not jeopardise climate targets.

The consultation on the Kraftwerkssicherheitsgesetz has been started by the BMWK, with 13 GW of power plant capacity and LDES







1 GW of H₂ sprinter plants and LDES

- #62 500 MW of gas-fired power plants that need to be operated with hydrogen from the start (H₂ sprinter plants).
 - Support design yet unclear with two options for consultation.
- # 500 MW long duration energy storage (LDES) technologies.
 - Supported by using auctions and granting investment support over 10 years.



¹⁾ The subsidies required approval under the EU guidelines on state aid for climate, environmental protection and energy (CEEAG). The CEEAG contain multiple objectives that governments can use to justify state aid. Each objective is tied to a different set of requirements that need to be fulfilled.

Sources: Aurora Energy Research, BMWK

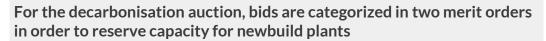
The merit order in the auctions for H₂-ready plants is influenced by two characteristics: North vs. South and Newbuild vs. Modernisation

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A Bonus for Southern plants applies for both auction pillars with slightly different applications

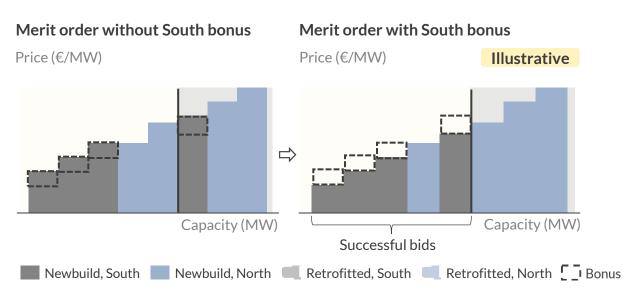


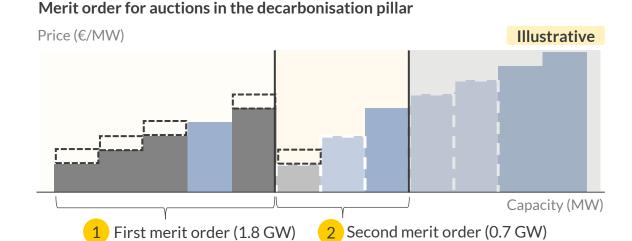
- A bonus of 200-300 €/kW will be applied to bids from Southern plants ("Südbonus").¹
- The bonus is supposed to only change the ranking in the merit order, but not the payments to Southern plants.
- It applies to up to 2/3 of auctioned capacity for Southern plants in each Decarbonization auction and across all SoS auctions.
- The final Southern plant exceeding this cap will still receive the full Southern bonus, despite surpassing the 2/3 limit.





- 1 After submission of all bids, at least 70% of auctioned capacity² is awarded in the first merit order, that is reserved for newbuilds.
- In the second merit order, all remaining bids compete, including both retrofits and newbuilds that were not awarded in the first merit order.
- Whether the South Bonus is applicable in the second merit order depends on whether the 2/3 of capacity for which the bonus applies has been fully taken up by Southern newbuilds in the first merit order.



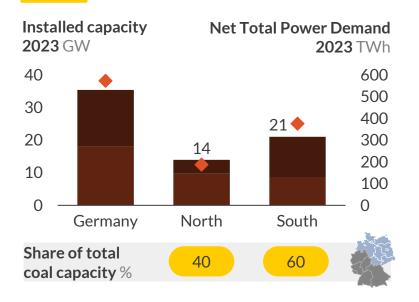


¹⁾ The South includes Baden-Württemberg, Bavaria, Hesse, North Rhine-Westphalia, Rhineland-Palatinate and Saarland. 2) In the first two auctions 1.8 GW of 2.5 GW is reserved for newbuild (72%). In the third auction, 1.4 GW of 2.0 GW is reserved for newbuilds (70%).

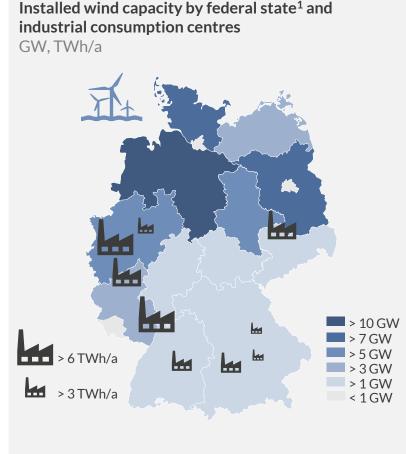
Sources: Aurora Energy Research, BMWK

The coal exit will have a greater impact in the South where load centres are located, while more renewables are installed in the North





- All of Germany will be affected by the coal exit, with >30 GW coal capacity still to leave the market.
- Nearly 60% of these plants are located in the South, corresponding to current demand patterns.
 - As of 2023, two thirds of net annual power was recorded in the Southern states.
- Current split of coal capacity and power demand seem to have motivated the choice of the ministry to introduce a bonus for southern plants.



Resulting obstacles for the German energy transition



Generation demand mismatch

 Generators have no incentive to build close to consumption centres.



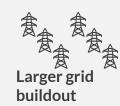
Grid congestion

 Electricity cannot always be transported to load centres resulting redispatch increases system costs, overhead, and CO₂ emissions.



Curtailment of renewables

 Renewables generation is wasted & compensating generators is costly.



requirements

- Inefficient location of consumers and generators increasing costs and
- increases grid requirements, complications.

Lignite Hard Coal • Demand

Southern Newbuilds might secure most of the capacity due to the South Bonus, while this bonus could also introduce the risk of strategic bidding

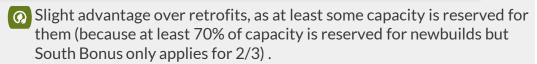
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Newbuild units in the South are expected to be the most successful, followed by Northern newbuild and then by retrofitted units

Southern newbuilds: Most competitive due to the South bonus.

- With a significant advantage from the Bonus, Southern newbuilds are expected to secure up to 2/3 of auctioned capacity in each round.
- Bonus benefits Southern units for 2/3 of awarded capacity across both auctions, meaning that **first auction could award capacity to Southern newbuilds only**.

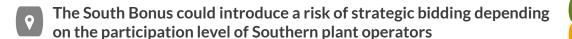
Northern newbuilds: Less competitive than Southern newbuilds.



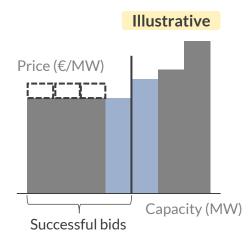
Will most likely secure more capacity in SoS auctions, where 1/3 of the capacity (1.7GW) is auctioned for newbuilds without South bonus.

Retrofits: Least competitive due to reserved capacity for newbuilds.

- The subsidy design tries to achieve bid parity between retrofits and newbuilds, requiring them to place bids competitively.¹
- Northern retrofits may only succeed if the South Bonus does not apply to Southern retrofits in the second merit order.²



- The South Bonus could encourage strategic bidding by Southern operators; particularly in a pay-as-bid auction design.
- If they anticipate total bid volume from Southern plants to make up less than 2/3 of auction capacity, they may inflate bids by factoring in the bonus.
- In the security of supply auctions, the risk for strategic bids could be higher, as the South Bonus applies across the two auctions.





A pay-as cleared auction design would mitigate the strategic bidding risk

- In a pay-as-cleared auction, the subsidy payment secured in the auction is not dependent on an operator's individual bid but on the project with the highest bid level that is still awarded.
 - In the case that a plant in the North sets the price, Southern operators would receive the same subsidy payment, regardless of whether they have priced in the South bonus or not.
- Therefore, operators have no incentive to inflate their bids.

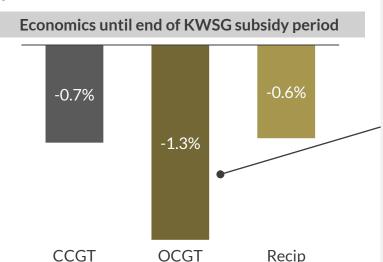
Sources: Aurora Energy Research, BMWK

Newbuild, South Newbuild, North Donus

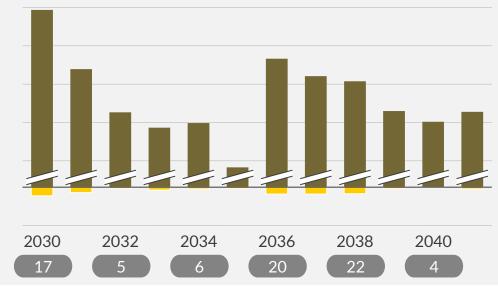
¹⁾ The award for retrofitted plants depends on the modernization depth, with funding granted based on the ratio of actual retrofit costs to the cost of building a comparable new plant. 2) This is the case if the 2/3 Southern capacity is reached in the first merit order.

The clawback mechanism will have a small impact on gross margins even if the minimum threshold of 430 €/MWh applies

Impact of the clawback on total gross margins¹



Annual total gross margins incl. clawback¹ for an OCGT with COD 2030 k€/MW (real 2023)



Design of the clawback mechanism

- The clawback threshold is determined by the sum of a 300 €/MWh fixed component and the SRMC of a gas-fired power plant.
- It has a minimum value of 430 €/MWh.
- 70% of revenues above the threshold will be skimmed during the KWSG subsidy period.

Total gross margins Margins skimmed by clawback mechanism

There are other externalities to be aware of

- The clawback mechanism creates a complication for long-term power trading because it is difficult to hedge spot-market based clawbacks with forward transactions.
- The clawback mechanism creates an administrative burden for both producers and the regulator.

Hours affected by clawback mechanism

1) Assuming a constant 430 €/MWh (nominal) clawback threshold.

- **Decarbonisation**
 - AUR 🚨 RA

Comments

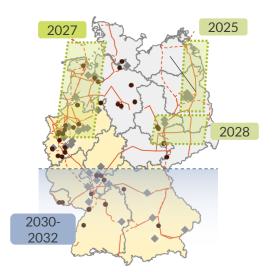
- The BMWK intends to implement a a clawback mechanism during the KWSG subsidy period for thermal assets, restricting revenues in the highest price hours.
- Assuming a constant clawback threshold of 430 €/MWh (nominal) gives an upper estimate of the affected margins, as the actual clawback price can exceed this value.
- Under this assumption, the impact on thermal plants under the KWSG is minimal.
- OCGTs are most impacted by the clawback mechanism since they dispatch in the highest priced hours and receive lower overall gross margins.
 - Still, the impact is small with 1.3% of total margins skimmed across the whole KWSG subsidy period.



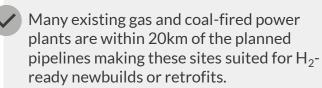
The consultation paper does not foresee a full protection against the risk of delays in the H₂ core network

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Hydrogen core grid plan



H₂ supply is secured if grid proceeds as planned...



- Planned completion of most of the core network by 2032 is in line with anticipated fuel switch of plants in the late 2030s.
- Further, it is acknowledged in the consultation paper that plants should get a connection to the H₂ grid 11 years after the date.1

...but operators bear the risk in case it does not.



- If a power plant cannot be supplied with H2 in time, operators are still not allowed to continue to operate on gas.
- Instead, the consultation paper suggests alternative options that might not be sufficient to fully cushion the risk:
- Using 100% other renewable fuels²
- Applying CCS for 90% of emissions²
- Moving plant to capacity reserve
- Mothballing till access is provided³

Recent developments



mechanism of H2 core network, that implies backdating of grid finalisation from 2030 to 2032; and for specific projects to 2037. application at Federal Network Agency (FNA) for H2 core grid⁴

core grid.

20xx Major retrofits completed by ◆ Gas ◆ Coal and lignite — Retrofit --- New build





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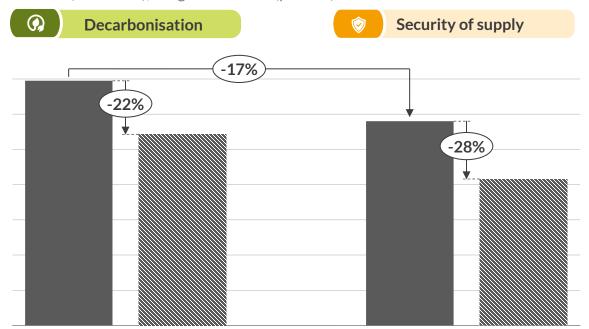
Expectations on future capacity market revenues are a key uncertainty to navigate for the auction participation



Base case

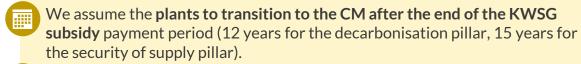
Gap to profitability for a new-build CCGT with COD 2030

k€/MW (real 2023), Target IRR of 9% (pre-tax)



i Relevance of capacity market design expectations

 It is still unclear when the KWSG power plants will be transferred to a CM and how they will be integrated.



Regarding the **CM design**, we calculate results for **2 options**:

- Existing and new-build power plants participate in the same tenders, hence existing power plants (such as the KWSG plants) could benefit from higher prices and revenues.
- Existing power plants participate in a separate tender which would lead to lower CM prices and revenues.
- In the first option, the gap to profitability of the KWSG plants decreases during the remaining lifetime after the end of the KWSG subsidy period; in the second option, the remaining lifetime is assumed to be NPV neutral.



Investors with an optimistic view on future CM payments could lower their bids for a new-build CCGT by 22-28% compared to investors who determine the bid based on the economics until the end of the KWSG subsidy period, or assume lower CM payments.

KWSG subsidy period or total lifetime with assumption of profit-neutral CM payments Total lifetime with optimistic view on CM payments

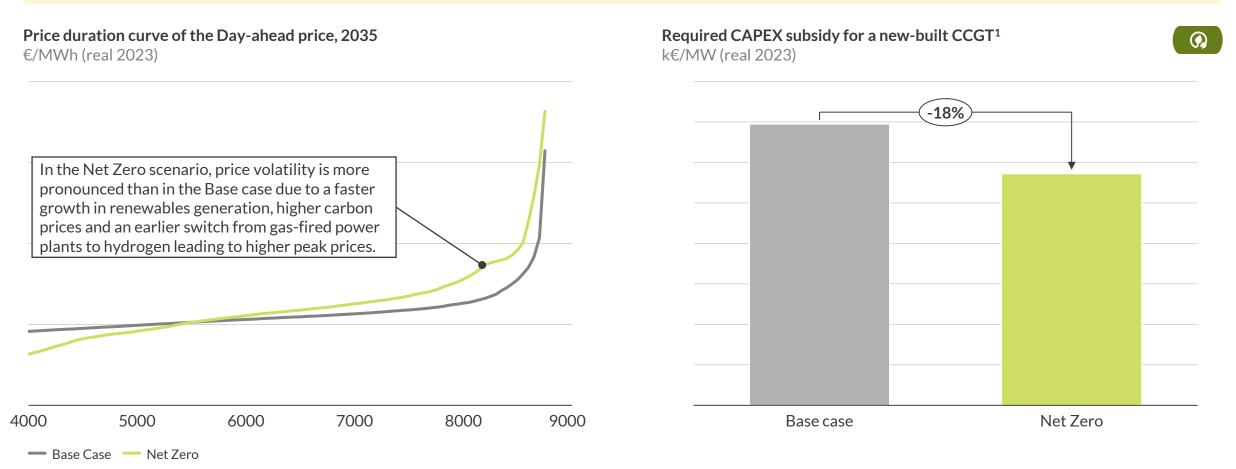
1) 4 years in which the decarbonisation pillar plant receives the fuel CfD subsidy for 800 full-load hours.

Higher and more spikey prices could drive investors to place up to 18% lower bids in a Net Zero market scenario

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Investors who believe in a Net Zero Scenario with its earlier H₂ switch for all new-build gas plants and higher carbon prices could place up to 18% lower bids in the auctions than investors with a more conservative power market transition outlook.

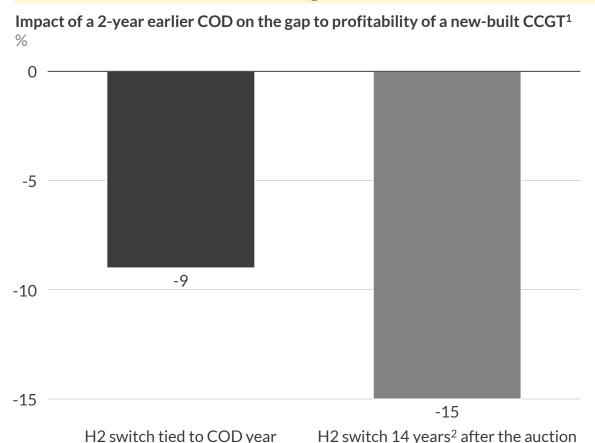
A CCGT can benefit from the higher price hours and generate higher margins, leading to a lower gap to profitability compared to the Base case.



1) COD 2030, economics until end of the KWSG subsidy period (2041). Assuming 9% IRR (pre-tax).

To incentivise a fast construction of the plants, a fixed time frame for the gas- $A \cup R \supseteq R A$ fired operation tied to the auction date could be beneficial

H2-ready power plants need to switch to H₂ 8 years after COD. This means that they cannot prolong the profitable gas-fired period with a fast project realisation time. An alternative mechanism in which the H₂ fuel switch requirement is tied to the auction year could provide a better incentive for early COD and save subsidy costs.



- Under **current rules**, operators already have an economic incentive to achieve an early COD because of a lower expected gap to profitability.
 - This is due to the expectation of higher returns in the early 2030s which outweigh the margin downside from an earlier fuel switch.
- However, an earlier fuel switch also increases the risk of the unavailability of the infrastructure and technology required for the operation with H₂.
- If the fuel conversion date was tied to a period after the auction, operators would have a higher incentive to achieve a fast project realisation time:
 - the additional gross margins in the early years can be captured without the economic downside of an earlier fuel switch.
 - The risks associated with the H₂ fuel switch are not affected.

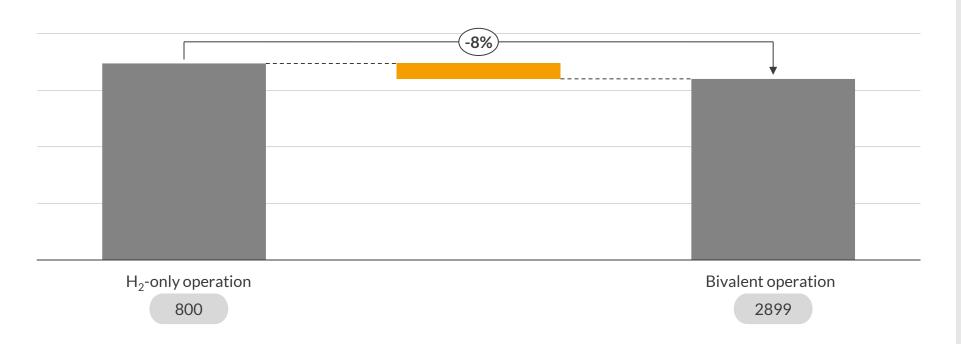
EU approval of a change to the fuel switch rule is uncertain.

- The current fuel switch mechanism has received approval by the European Commission.
- It is unclear whether a change of the rule to a fixed period would be accepted.

Allowing bivalent operation of the H_2 -ready plants during the OPEX







- H₂-only operation: CCGT can only run on H₂ during KWSG subsidy period, fuel CfD subsidy is limited to 800 full-load hours.
- Bivalent operation: The CCGT can run additional hours on top of the 800 full-load hours running on H₂, during the KWSG subsidy period.
- Gross margin upside Required CAPEX subsidy
- Average annual full load hours during KWSG subsidy period

Decarbonisation

AUR RA

- By allowing thermal assets in the decarbonisation pillar to run bivalently on H₂ and gas, they can generate higher revenues.
- The revenue increase would result in a lower gap to profitability for the decarbonisation assets.

The required subsidy might exceed the 80% of CAPEX limit defined in the consultation paper, driven by additional costs due to auction requirements



The currently foreseen auction rules for the decarbonisation pillar require that the bids cannot exceed 80% of the CAPEX of a reference asset. To enable a profitable business case within this limit, it is important that costs that are not part of the core components of the power plant are also sufficiently reflected in the reference costs.

Relevant cost components in addition to CAPEX for the power plant



- Operators must install additional technology to provide reactive power and inertia when the plant is not running.
- The technology is **costly** and currently **not available for** large CCGT plants over 350 MW, which adds a technological risk and effectively excludes the most efficient power generation systems.



H₂ fuel switch and grid

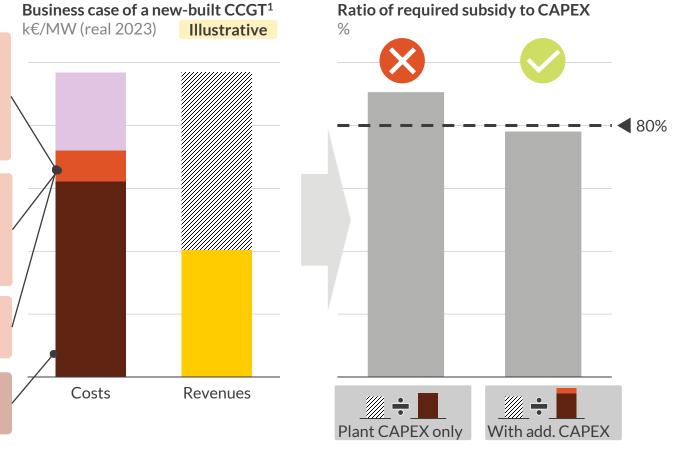
- Assets must be within 20 km of the H₂ core grid, leading to construction costs for up to 20 km of hydrogen pipeline
- Uncertainties around the technological readiness of the H₂ combustion technology, H₂ supply, and H₂ infrastructure (core grid and storage) can lead to additional risk premia.



 Operators bear cost of capital for financing the investment because subsidy is only fully received after 10-15 years.



 Rising prices for turbines and components may cause actual costs to exceed pre-determined reference costs.



1) COD 2030, economics until end of the KWSG subsidy period (2041). Assuming 9% IRR (pre-tax). 2) inclusive of fuel CfD subsidy

Source: Aurora Energy Research

OPEX and other costs Additional CAPEX Plant CAPEX ///// Required investment cost subsidy to achieve profitability Wholesale and flexibility market margins²

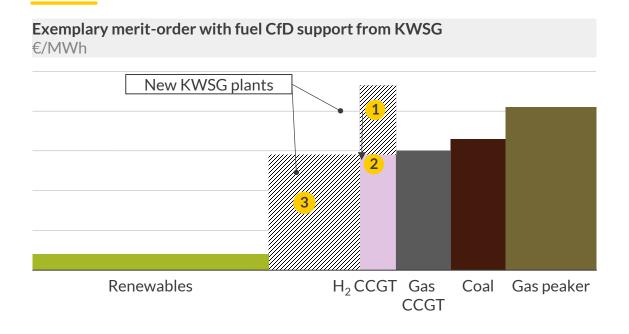
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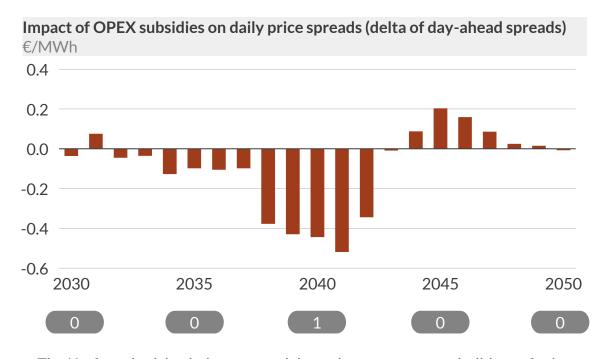
The fuel CfD will slightly reduce the arbitrage potential for other flexible assets by lowering price spreads







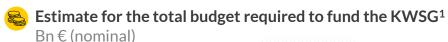
- OPEX subsidies for hydrogen plants reduce their marginal costs and lead to a decrease in day-ahead electricity prices.
- Efficiency advantages of the new *Kraftwerkssicherheitsgesetz* plants could lead to preferential dispatch over existing gas-fired power plants.

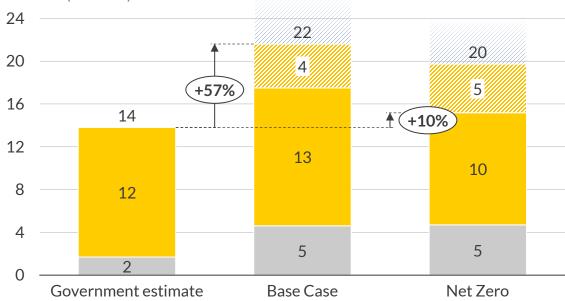


- The Kraftwerkssicherheitsgesetz might endanger necessary buildout of other flexibility sources, such as batteries, LDES or DSR.
- Price signals for other flexible assets are slightly distorted, as daily price spreads are reduced by ~1% (0.5 €/MWh) at most during the support phase of the KWSG plants.
- Reduction in spread is mostly limited to the years when OPEX subsidies are paid to H₂-ready assets after conversion (2038 – 2043).

Delta % deviation of daily spreads

The government seems to expect accelerated decarbonisation as the published AUR RA cost of subsidy is closer to Aurora's estimate under a Net Zero scenario





To estimate total subsidy requirement, we compute the CAPEX and OPEX subsidy need for three technologies and scale it to 12 GW, assuming a technology mix of 60% CCGT, 30% OCGT, and 10% reciprocating engines.²

Disclaimer: We only apply a WACC³ discount factor of 9% after the COD (2030) in our asset profitability calculations. Total subsidy cost would be higher when considering WACC already during the construction phase.

There are multiple options to reduce the KWSG subsidy costs, some of which have potential drawbacks

Option

Description & assessment

More participation
options for
existing locations

- Allowing projects for new-build power plants at sites with existing gas-fired power plants and/or the conversion of coal-fired power plants to gas-fired power plants.
- Both measures could increase competition in the auctions and lower costs.
- A potential downside is a greater advantage for incumbents compared to new market entrants.

Change of rule for date of fuel switch

 Tying the fuel switch to the auction date instead of COD would increase the profitability of H₂-ready plants with a fast project realisation time, lowering the required subsidy (see slide 17).

Bivalent operation during CfD subsidy period

- Allowing H₂-ready plants to run on natural gas in hours exceeding the 800 full-load hours of H₂ use would increase their profitability and reduce subsidy costs (see slide 18).
- Yet, bivalent operation might not adhere to the EU requirements for a decarbonisation measure.

22





Additional CAPEX Upper End CAPEX Lower End OPEX /// Uncertainty on WACC during construction

Sources: Aurora Energy Research, BMWK

The government's target of avoided carbon emissions is rather ambitious as it assumes very high full load hours for the KWSG assets

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To estimate the cost of avoided emissions, we first compared our modelled generation of KWSG assets to government targets.

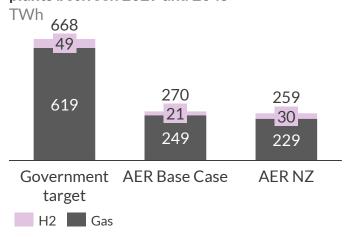


We then adjusted the government targets on avoided carbon according to average full load hours based on our modelled generation data.

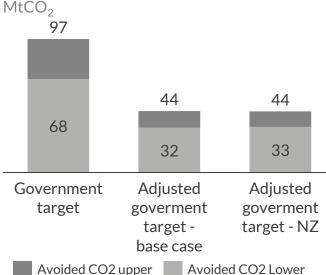


Finally, we calculated the cost of carbon avoidance based on the avoided CO2 and total cost of subsidy, calculated previously.²

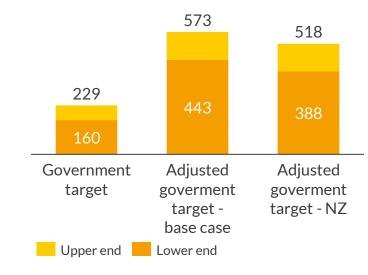
Total electricity generation by KWSG subsidised plants between 2029 and 2045



Total CO₂ avoided between 2029 and 2045



Cost of CO₂ avoidance between 2029 and 2045 € /tCO₂ (nominal)



Key considerations

- Based on the consultation papers' projected generation, the government target full load hours are around 4,400 hours per year when operating on natural gas while Aurora's base case modelling showed that the gas fired KWSG assets' yearly full load hours, are on average 1,900 hours between 2029 and 2045.
- Aurora's KWSG fleet include around 60% CCGTs besides other technologies, such as OCGTs. As OCGTs usually operate on much less full load hours, based on the rather ambitious projections, the government paper likely assumes a different mix of technologies.¹
- The cost of carbon avoidance is further driven by the expected total cost of subsidies, as the government forecast represents the lower end of Aurora's estimation.

¹⁾ Even with a full fleet of KWSG CCGTs it is unlikely that we see generation levels similar to the government's expectation. 2) The cost of CO2 avoidance would be higher when assuming a WACC disount factor during the construction phase of the plants as well. See disclaimer on the previous slide.

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Key takeaways



- A steering of the regional distribution of the KWSG capacity is necessary to counteract the emerging shortage of dispatchable capacity in the South. A South bonus will achieve the desired distribution; the risk of strategic bidding can be mitigated with a pay-as-clear design.
 - Across both auction pillars, there is a significant gap to profitability for gas-fired power plants.
 - The clawback mechanism will have a small impact on the gap to profitability even if the minimum threshold of 430 €/MWh applies.
 - Additional costs arising from the grid stabilisation requirements and the switch to hydrogen need to be accounted for in the reference CAPEX used for the auction bid limit, otherwise the required investment cost subsidy might exceed the bid ceiling of 80% of CAPEX defined for the auctions for H₂-ready plants in the decarbonisation pillar.
 - For a CCGT in the security of supply pillar, the gap to profitability is 17% lower than for a comparable plant in the decarbonisation pillar, since a longer period of operation on natural gas means higher revenues.
 - To incentivise a fast construction of the plants, a fixed time frame for the gas-fired operation tied to the auction date could be beneficial.
 - The required investment support is 22-28% lower when considering the entire 30-year asset lifetime and assuming a CM design in which existing plants can receive payments exceeding their missing money. More clarity on the CM would reduce uncertainty.
 - In a Net Zero scenario, the gap to profitability is 18% lower for H₂-ready CCGTs driven by a more volatile wholesale price pattern with higher peak prices that enable the plants to generate higher margins.
- We find the total budget required to finance the buildout of 12 GW gas-fired power plants to be higher in our Base case than indicated in the consultation papers, but our budget estimate in a Net Zero Scenario is closer to the projections of the BMWK.

Interested in more?

For access to the full report of our recent study, reach out to Nicolas Leicht (nicolas.leicht@auroraer.com).

Deliverables comprise an extensive report and a databook with detailed modelling results, assumptions, asset impact and sensitivities.





Details and disclaimer

Publication

The Kraftwerkssicherheitsgesetz and the future of gas power plants in Germany

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