



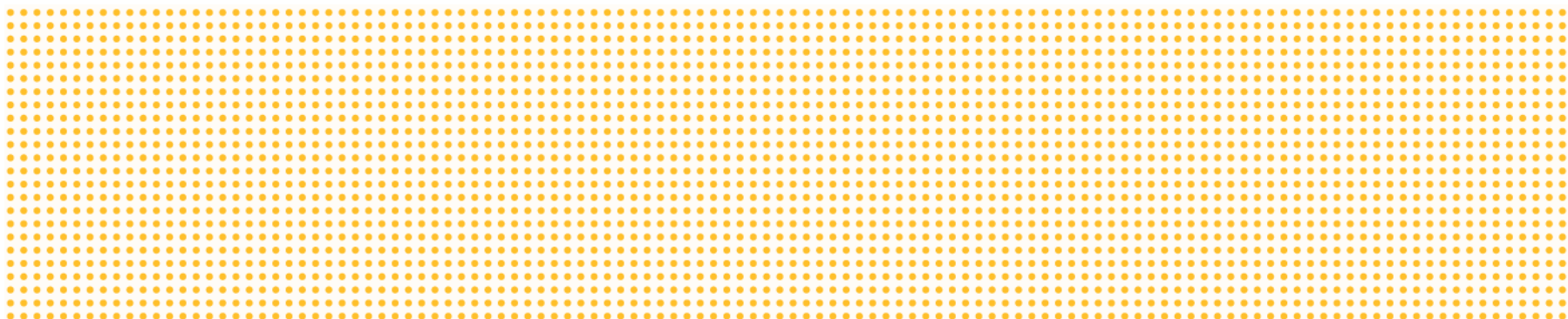
Perspectives for coal in Europe

Second IEA-IEF-OPEC Symposium on Gas and Coal Market Outlooks

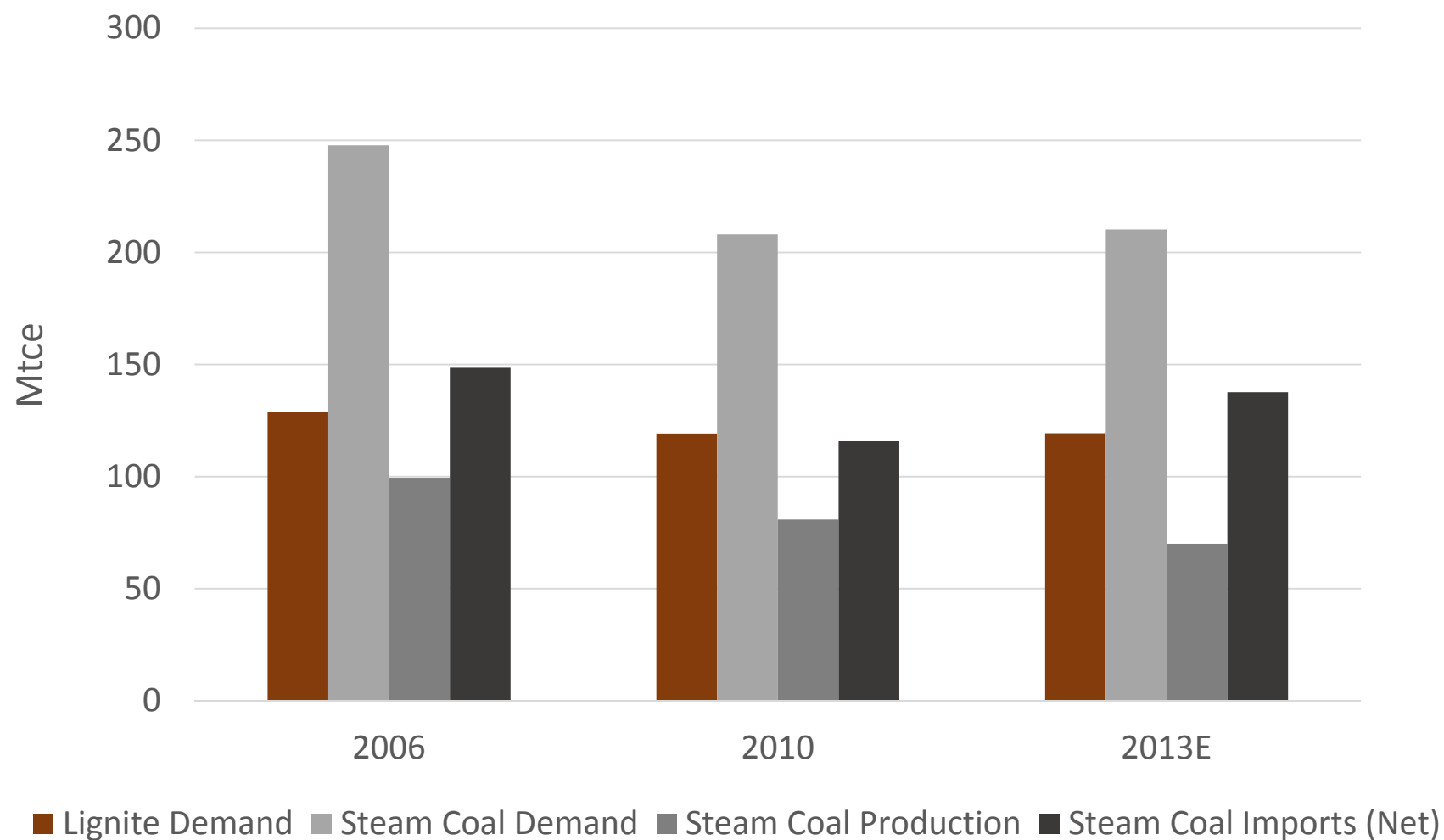
October, 30th – IEA, Paris

Marc Oliver Bettzüge

ewi

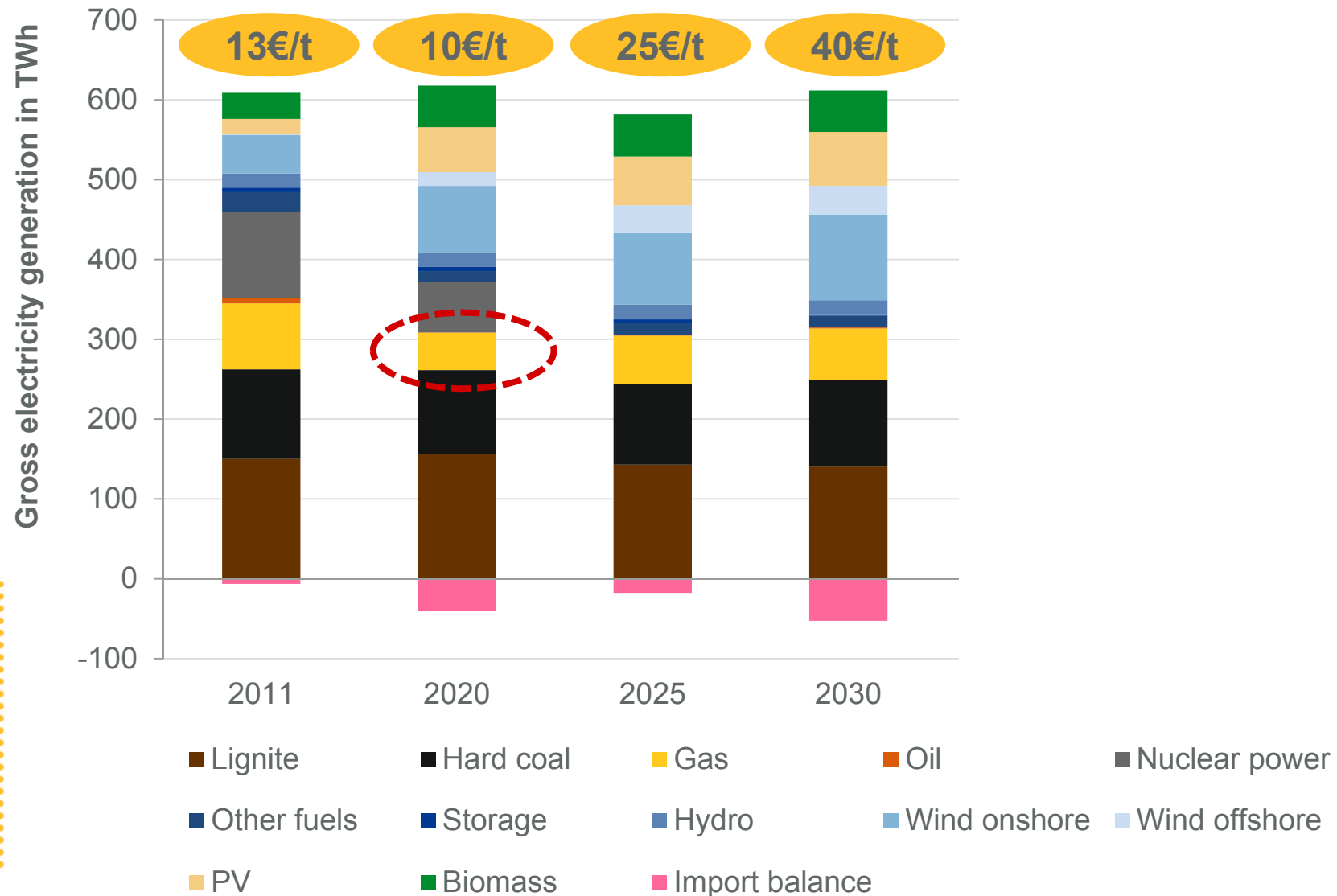


Coal demand, supply and use in the EU-27



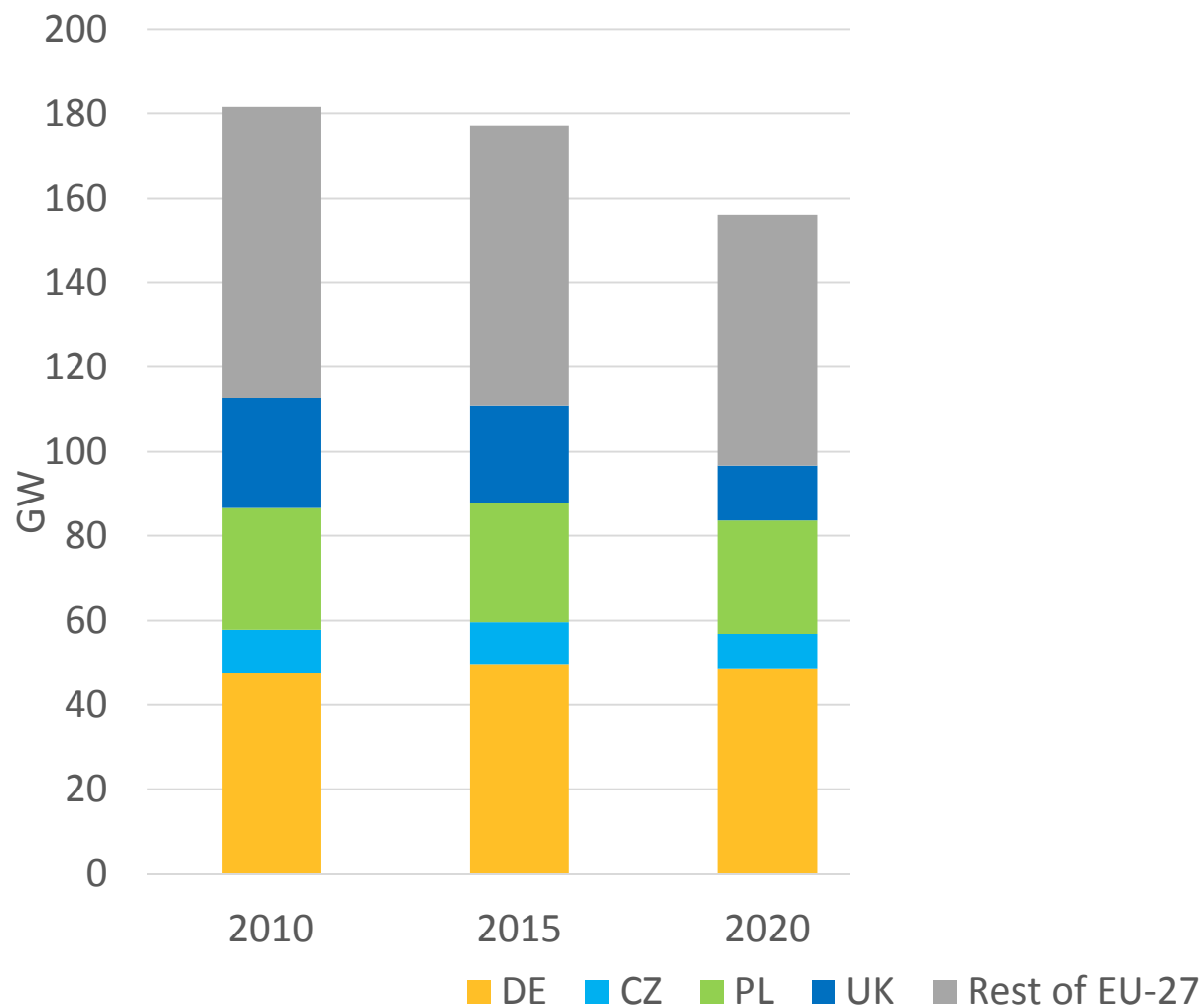
Source: IEA Coal Information (various years)

Reference Scenario for Germany - Generation



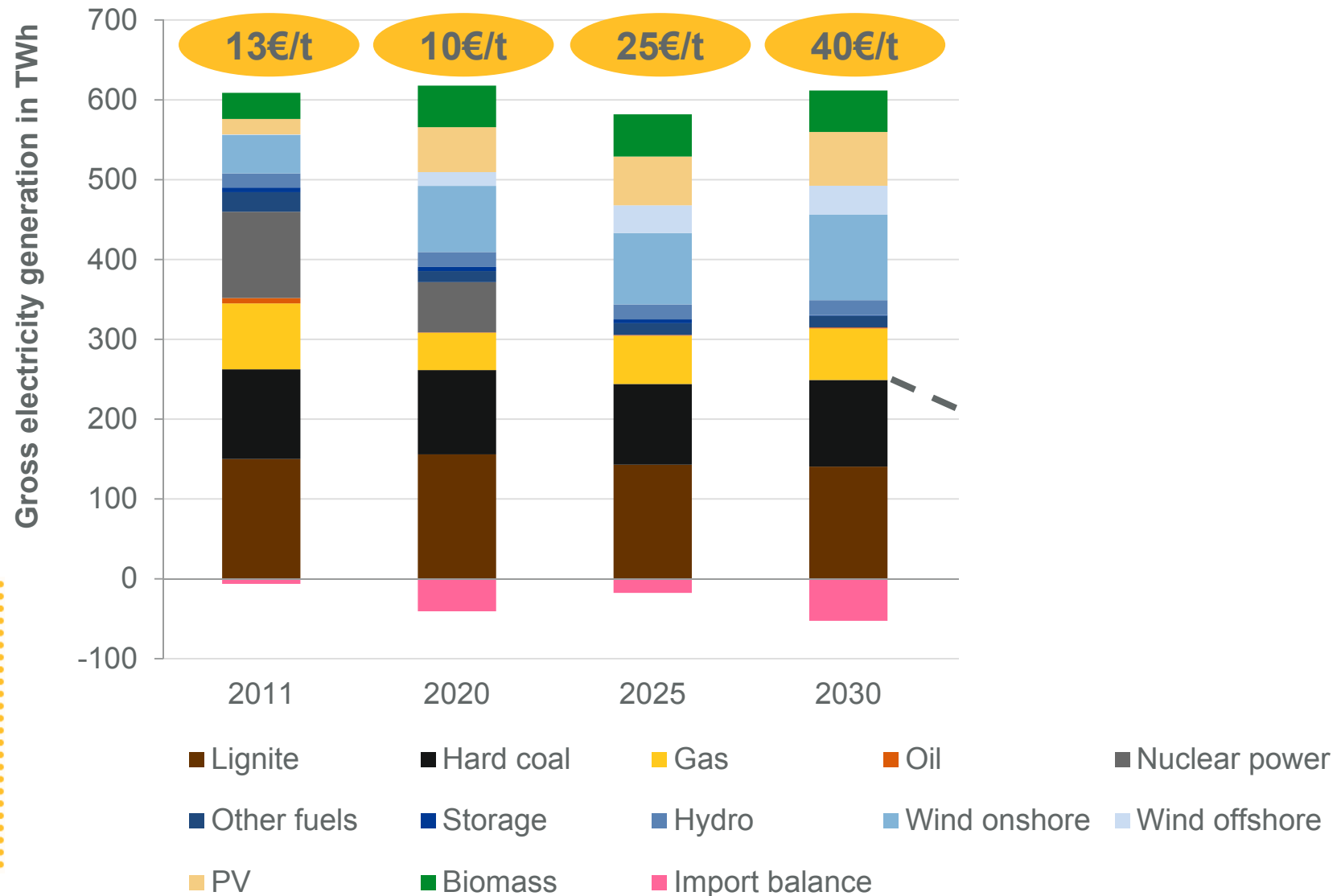
Source: Prognos/EWI/gws for German Ministry for Economic Affairs and Energy 2014

Expiration Timeline of Coal and Lignite Fired Power Plants in the EU-27



Source: EWI Power Plant Database

Reference Scenario for Germany - Generation




Source: Prognos/EWI/gws for German Ministry for Economic Affairs and Energy 2014

Existing asset base provides for continued coal demand at current and expected clean gas-coal-spreads.

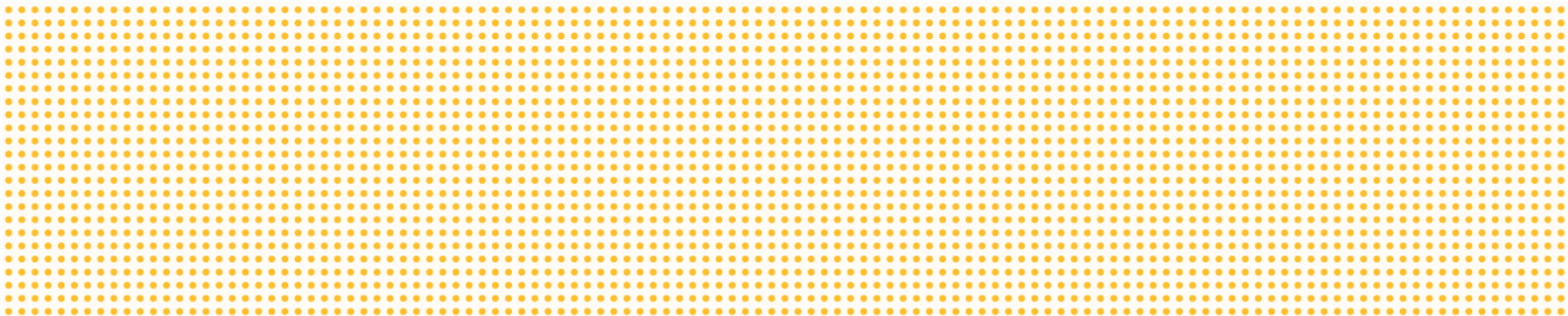
Risks in the short- and medium-term mostly stem from potential regulatory action against coal.

Current policy framework in EU not particularly encouraging for substantial new investment in coal-fired power generation – key uncertainties, however, comprise

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- Development of EU power demand
 - Maximum acceptance levels for CO₂-prices
 - Grid expansion across EU (supporting RES-E-rollout)
 - Licence-to-operate, in particular for Nuclear and CCS
 - Future subsidy regimes for Nuclear and RES-E

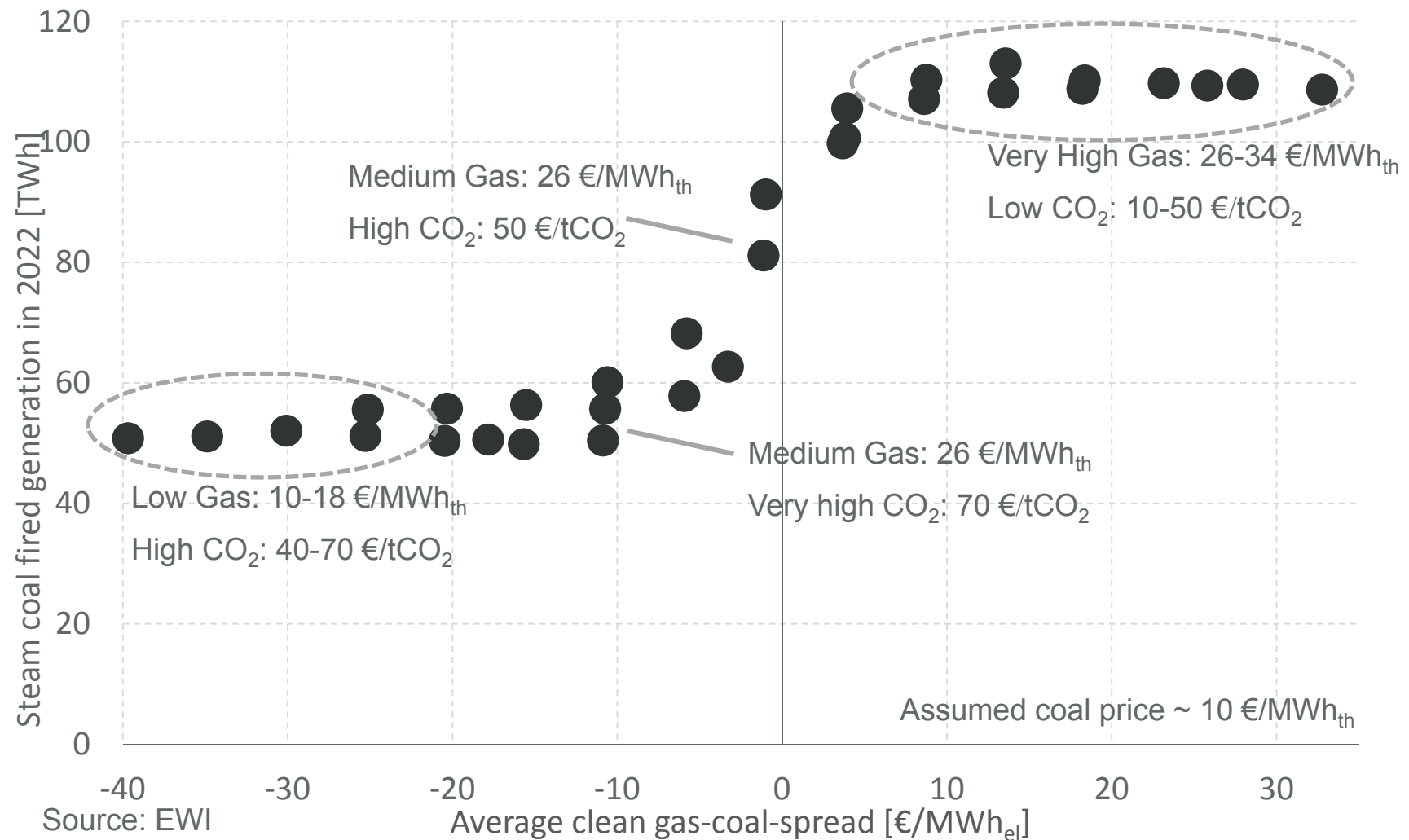
Thank you very much for your attention.

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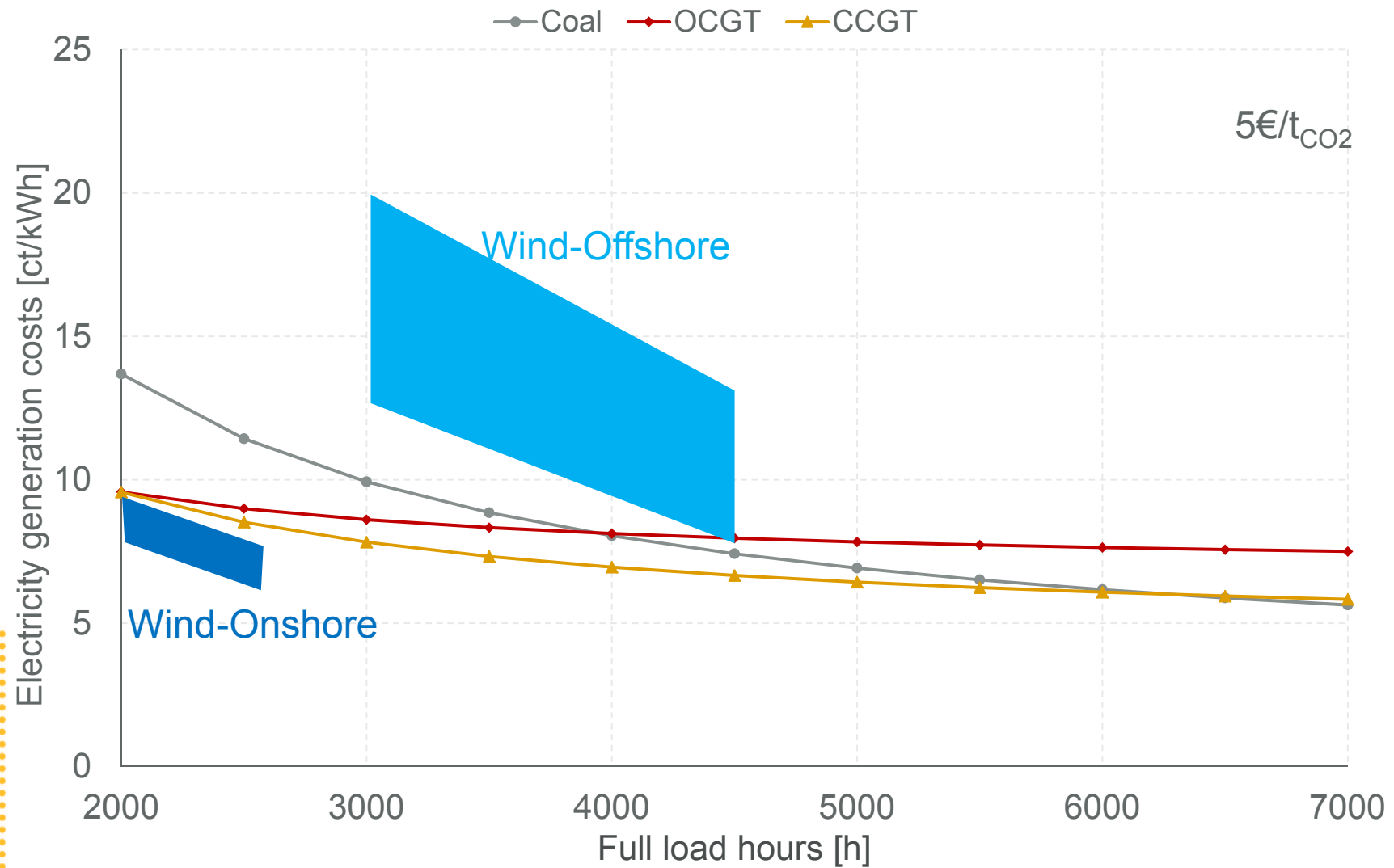
High coal generation driven by fuel price economics

Dispatch Economics in Germany (2022)*



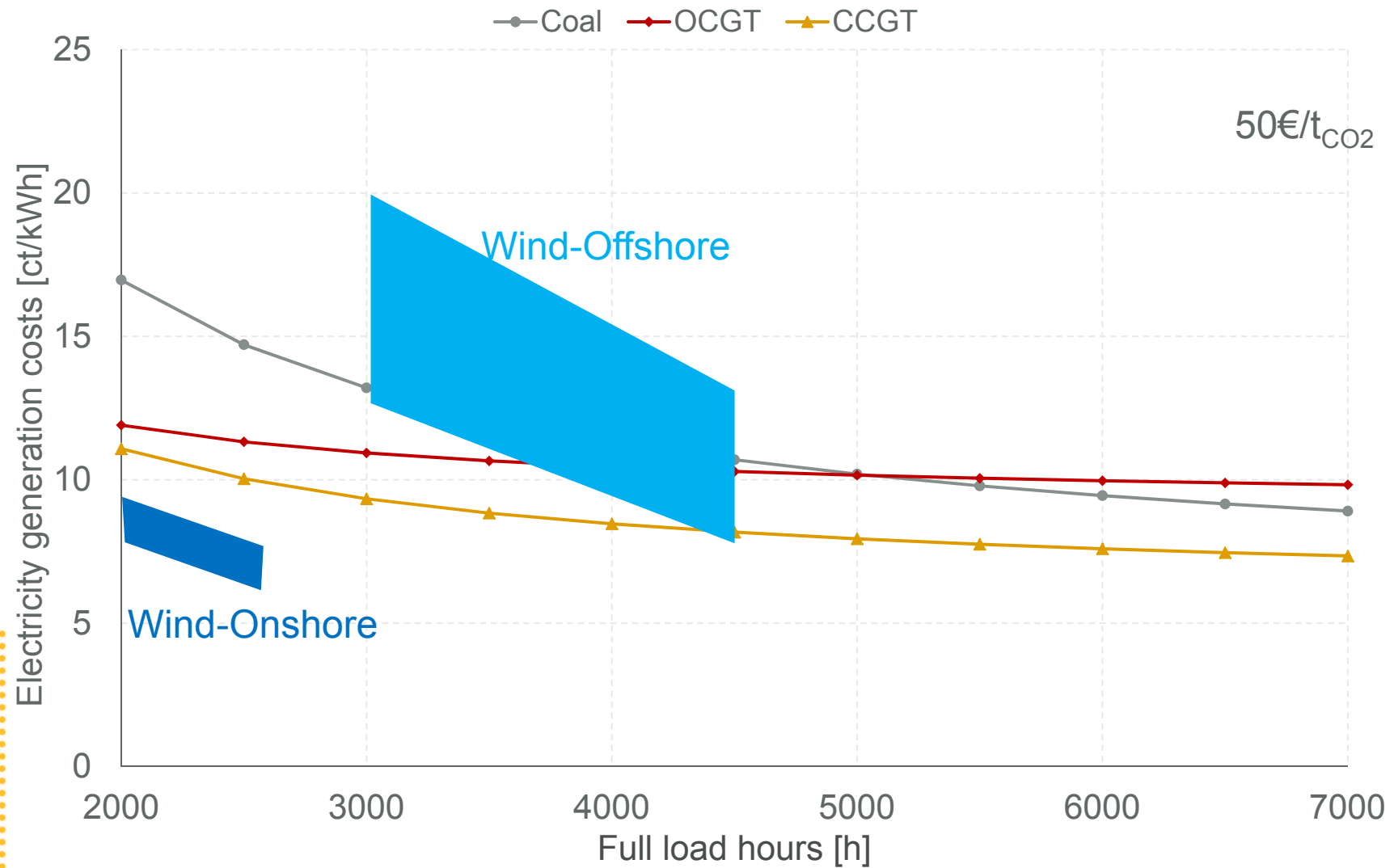
*Assumptions as in German Grid Development Plan 2012, Scenario B

Full costs of electricity generation at 5€ per ton of CO₂



Source: based on IEA World Energy Investment Outlook 2014 and own assumptions

Full costs of electricity generation at 50€ per ton of CO₂



Source: based on IEA World Energy Investment Outlook 2014 and own assumptions