

ENERGY. THINKING AHEAD

Impulse Paper

Further development of the H2Global funding mechanism

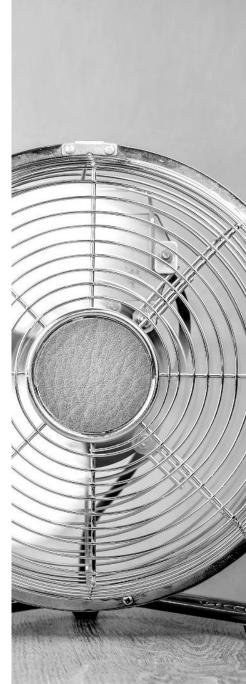
April 18th, 2023 | Brussels

On behalf of E.ON Hydrogen GmbH



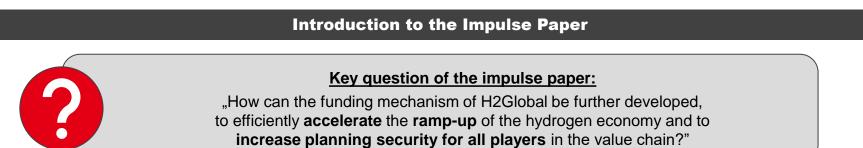
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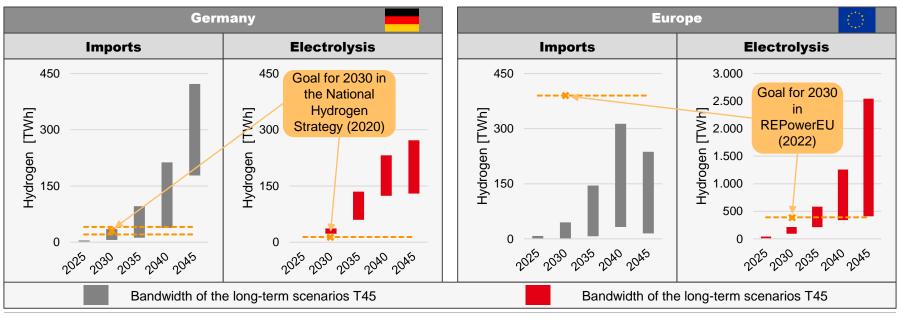
- **1. Introduction**
- **2. Current functionality of H2Global**
- 3. Potentials for further development of H2Global
- 4. Impulses for the further development of H2Global
- 5. Conclusion



INTRODUCTION

The presented paper gives impulses for the further development of H2Global since there is a strong demand for a faster hydrogen ramp-up which cannot be fully covered by the existing mechanism

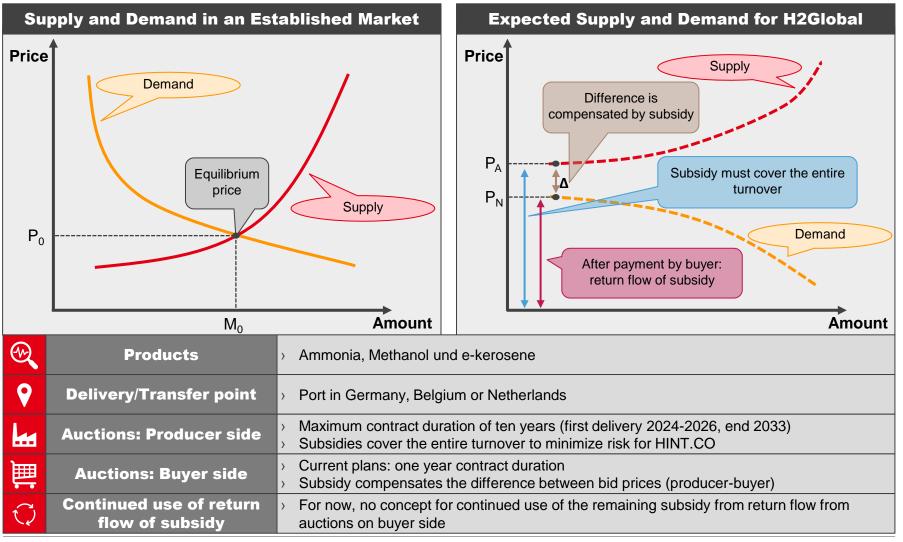




Germany will import large quantities of hydrogen, also from within Europe. The goals of the National Hydrogen Strategy and the REPowerEU program are very ambitious. A fast and efficient realization requires target-oriented funding programs.

CURRENT FUNCTIONALITY OF H2GLOBAL

The current H2Global mechanism implements separate auctions on the producer and buyer side. The difference between the prices is compensated by the subsidy



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The budget of the current mechanism is too low, it lacks planning security for buyers and has too strict framework conditions





Low volume of subsidized imports

- Funding volume of €30 million per product and year only equals 3-9 % of the German ammonia production in 2021 (demand will increase)
- > For now, no continued use of the return flow of subsidy



Lack of planning security for buyers

- > Due to annual auctions, acquiring product is not reliable
- > Delivery time is unknown long in advance, risk of change of delivery point
- > Even when winning the auction, delivery is not entirely ensured (replacement or compensation)
- → Lack of planning security → no basis for investments in supply chain (logistics chain, conversion plants, production conversions)

Strict framework conditions in contracts

- > Limitation of countries of origin to outside of EU and EFTA
- > Strict specifications about port and responsibilities for transport and logistics
- > Costly and time-consuming application and prequalification process to participate in auction

Approaches to bundle the promotion funds and improve planning security of the buyers'

	I - Increase in funded import volumes through bundling of promotion funds
┣	Supplementation of promotion funds for H2Global by €3.5 billion
	 Combination of different promotion funds, e.g., German Federal Ministry for Digital and Transport for renewable fuels
	> Involvement of further European countries and initiatives
€	 Creation of a continued use of the return flow of subsidy for the efficient and target-oriented use of the funds

II - Improving planning security on the buyer side through long-term contracts

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Introduction of long-term contracts (e.g., 10-15 years) on buyer side (additional to existing annual contracts)

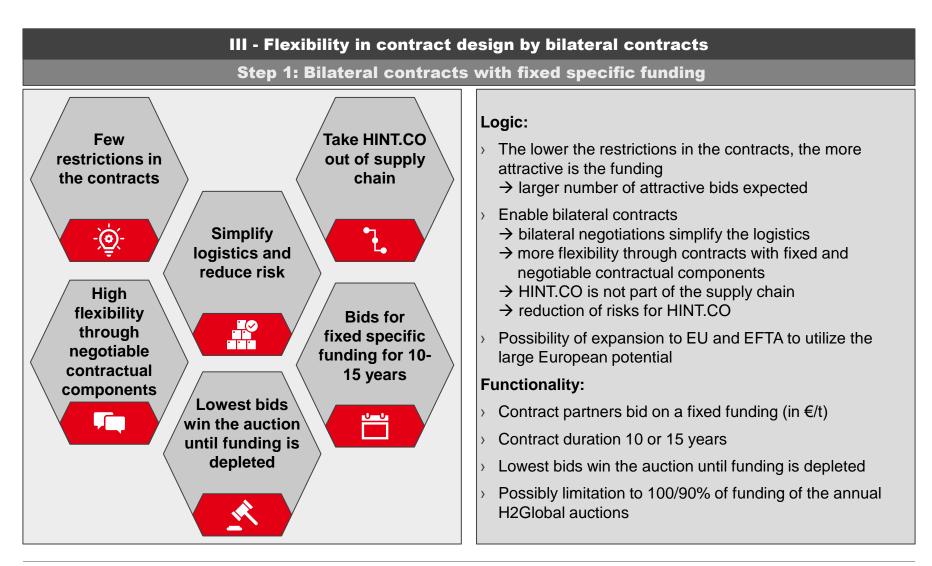


Reinforcing the delivery obligation of the producer \rightarrow Introduction of fallback mechanisms, e.g., storage facilities close to the place of delivery



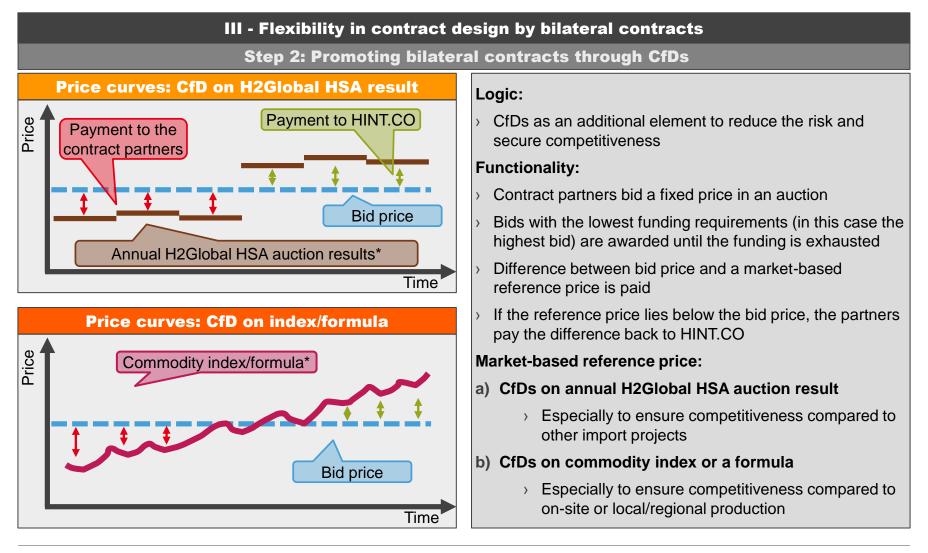
Introduction of contracts for difference (CfDs) to hedge the price risk (additional to existing annual contracts)

Flexibility in contract design by implementation of bilateral contracts. Two possible steps for implementation.



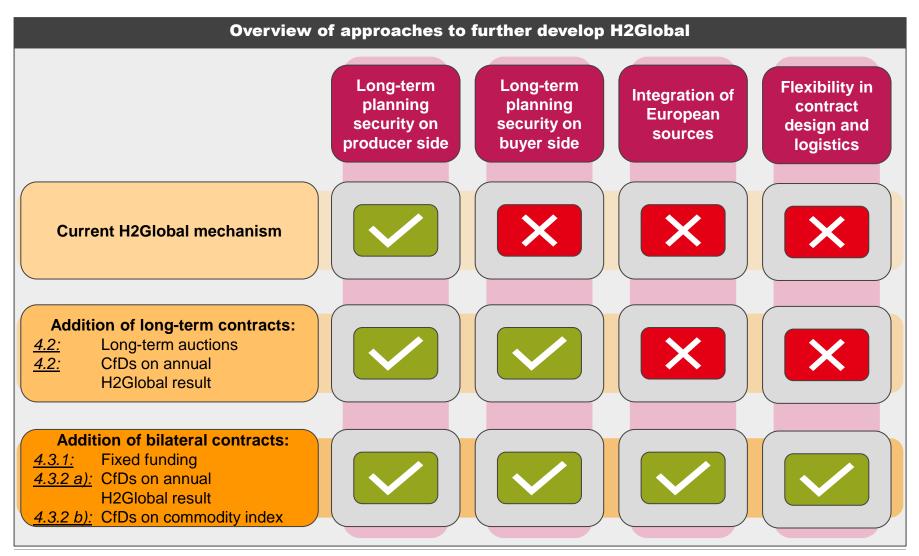
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Flexibility in contract design by implementation of bilateral contracts. Two possible steps for implementation.



CONCLUSION

The extension of the H2Global mechanism by bilateral contracts offers the biggest potential for the acceleration of the hydrogen ramp-up



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CONCLUSION

So that H2Global can develop its full potential as a lead index for green hydrogen (and its derivatives), a further development is necessary in four dimensions



E N E R G Y

Energy market models & price forecasts Portfolio & risk management Sales

Grid infrastructure technology Concessions

Organisation Culture & Change

Strategy & cooperations Sustainability & climate protection

IT & data management Digital solutions

Energy policy & system analysis Commercial evaluation

Transactions Industry

Regulation Controlling Funding

Generation Renewable energies

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