Cleaning Up Industry – The Role of Green Hydrogen

Klaus SEHLING Philip SCHWILLINSKY



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Status Quo – Commitment & Announced Investments in **Green Hydrogen Projects**



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Green H₂ Demand Hubs of Industry in Europe by Sector Fostered by REDIII



Climate Policy on European and National Level as a Key Driver for a $\rm H_2$ Economy

EUROPEAN UNION

Jul2023

climate plan update,

*Spanish Hydrogen Roadmap **NECP National energy and (

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 \rightarrow Regulation, especially national implementation of policy goals as the most critical lever for H₂ demand

Technical Operational Constraints & Competitive Advantages of Several Bidding Zones



-Loadprofile ELY 60 MW/ PV 60MW / Wind 60MW



The Innovation Fund Pilot Auction Results Give Interesting Insights Regarding the H₂ Production Cost

Budget 15x oversubscribed. Bids are well distributed in size and price, resulting in a continuous bid curve



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AT-DE // Refineries and Heavy-Duty Transport are Demand Driver



Source Guidehouse; April 2024 // -* further evaluation necessary // ** 20% H₂ Anteil

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VERBUND Activities in Hydrogen Projects On site/ Near site/ Import

Feedstock for industry and mobility

Energy carrier for electricity system – energy storage

Global commodity – securing long term demand in Europe



Way Forward – Major Next Steps to Enable a Green Hydrogen Commodity Economy



Commercial Business Development // VERBUND Green Hydrogen

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