



Bundesnetzagentur

Session 5

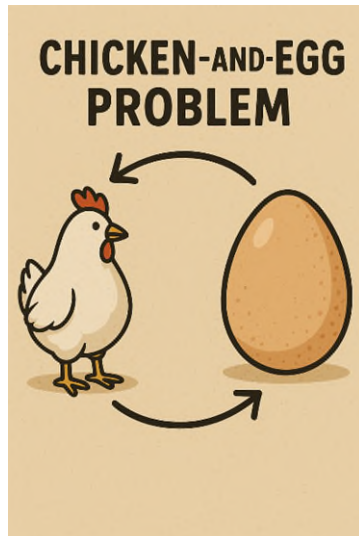
Perspective from Regulators



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H2 Market Ramp-up challenges

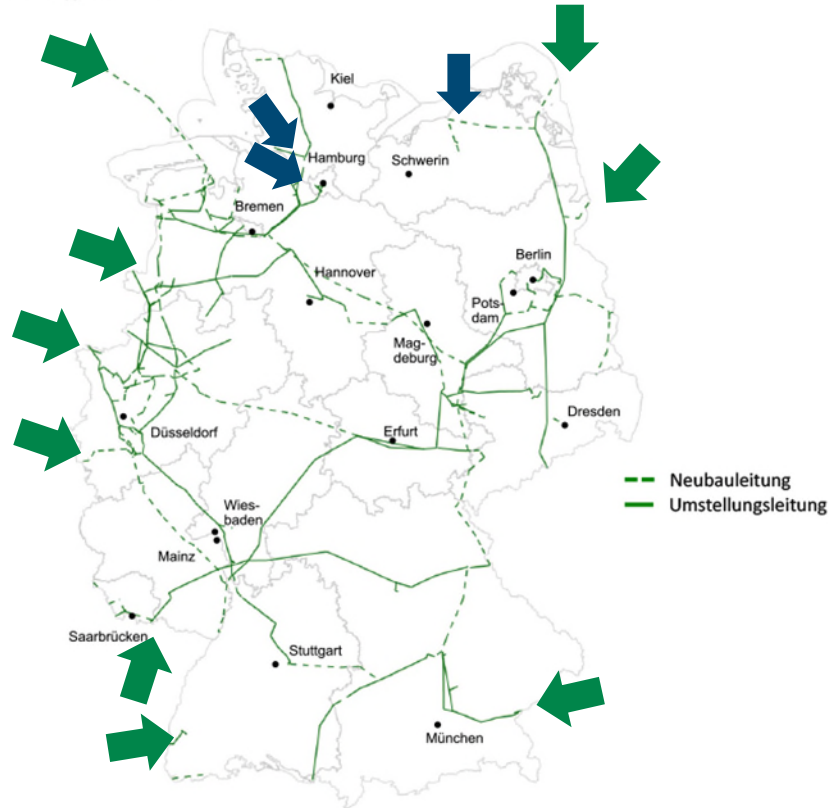


- coordination
- financing
- legal
- regulatory
- technological
-



H2 Imports

Genehmigtes Wasserstoffkernnetz



- Imports are important (50-70%)
 - via ports 
 - via pipelines 

Table 1: Entry capacities considered for the hydrogen core network, data for 2032 based on gross calorific value

	Unit	Cross-border IP	Electrolysis	Storage	Other entries	Total
Entry capacity	GW _{th}	58	15	8	19	101

Source: Transmission system operators

Financing the hydrogen network – The “amortisation account” in a nutshell

Network tariffs are capped (not fully charged to the limited initial users)

- prevents prohibitively high initial tariffs
- initial deficits to be spread over a multi-year period

Revenue shortfalls are collected in a dedicated “amortization account”

- to be balanced at a more mature stage with higher utilization of the network
- balanced by keeping the tariff at an increased level

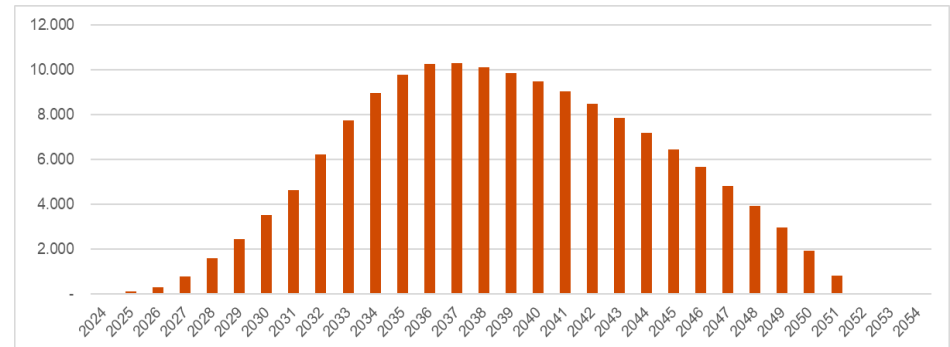
Subsidiary guarantee of the Federal Government

- enables private investment despite uncertainty about H2 ramp up
- overcomes the “chicken-and-egg problem”

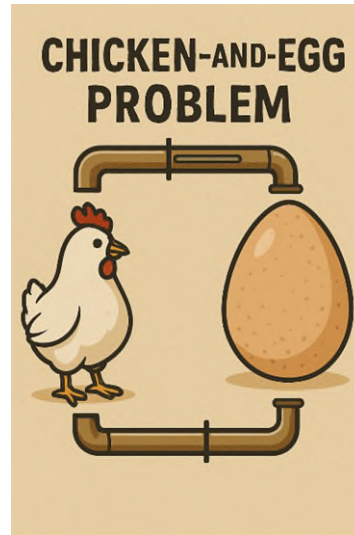
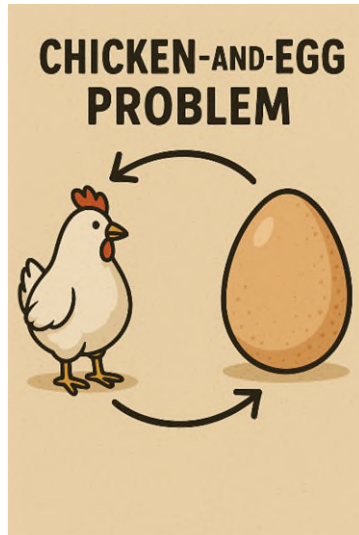
Financing model

- **Long amortisation period** (until 2055, Federal Government may terminate early after 2038)
- **State-owned bank (KfW) provides liquidity** by way of a loan
- **Revision mechanism:** evaluated and potentially revised tariffs every 3 years
- **Deductible** ensures alignment of interests between government and TSOs
→ if there is a need to balance the account, TSOs cover part of the costs (up to 24%)

Example calculation:
Balance of the Amortisation
account at year-end



H2 Market Ramp-up



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Back-up

Gas Directive implementation – status quo

Non-exhaustive examples!

Implemented

- Integrated network development plan (Art. 55 → §15a – d EnWG)
- Access rules and tariffs for H2 (Art. 35 -37) → partially §28n and §28o EnWG

Remaining

- H2 network planning on DSO level (Art. 56)
- Decommissioning plans and connection refusal (Art. 38 and 57)
- Certification of H2 TSOs (Art. 68 – 71)

Hydrogen – BNetzA Regulatory Determinations

H2 Tariffs

- Wanda (**GBK-24-01-2#1**), **06.06.2024**
- Ramp up tariff determination for core grid (**GBK-24-02-2#4**),

Access

- WasABi (**BK7-24-01-014**), 2. consultation until 07.03.2025
- WaKandA (**BK7-24-01-015**), 2. consultation until 07.03.2025

Network planning

- Hydrogen core grid (Az.: 4.13.01/10#1), approved 22.10.2024
- Regular Network development plan process (Scenario framework approved 30.04.2025, Az.: 4.13.01/11#1)