

Railway Electricity Supply

Market & Regulation

9 December 2022, Florence



DB Energie is the Energy Manager of Deutsche Bahn AG



DB Netze Track

DB Netz AG

DB Netze Energy **DB Energie GmbH**

Revenue 3.3 Bio. Euro 1.900 employees

DB Netze Stations

DB Station & Service AG

DB NETZE

THERE BARRIES

DB Energie at a glance – Customized energy solutions



Traction energy



16.7 Hz traction electricity Reliable, sustainable railway power in Germany



Refueling services

Rail filling stations for supply of diesel, ad blue and synthetic fuels



Battery trains Infrastructure for battery trains



Hydrogen Infrastructure for hydrogen trains

Nontraction energy



Electricity Risk management and supply for industry and commerce



Gas Risk management and supply for industry and commerce

CO2 neutral Transport of Passengers and Goods on Rail



Greening of traction electricity

Growth of our green power portfolio and infrastructure for electric railways



Diesel replacement in rail traffic

Infrastructure for supplying alternatively powered rail vehicles

Around 24 % of rail transport in Germany is still based on **diesel traction** (in transport-km)



Implementation of **alternative drives** on non-electrified lines – biofuels, battery trains and hydrogen trains

Traction Power is distributed via the DB 110 kV electricity grid





- DB railway electricity grid 110 kV/ 16,7 Hz
- Legally classified as public distribution grid
- Full regulation of access, conditions, prices

- Railway undertakings with free choice of electricity supplier (TPA)
- Around 12 railway electricity suppliers active in the market

Railway energy management - Is there need for further regulation?

DB NETZE

- Regulation of electricity generation: wholesale revenue shaving based on EU Directive 2022/1854 "crisis mechanism as reaction to high energy prices" from Oct. 6, 2022
- 2. Regulation of distribution grids based on EU Internal Market for Electricity Directive (2019/944/EC)
- **3. Regulation of end-user prices** by price caps for households, commerce and industry including railways (draft Strompreisbremsegesetz)
- We are already entering full scale regulation from top to bottom and at least during the energy crisis there is no room left for further regulation

