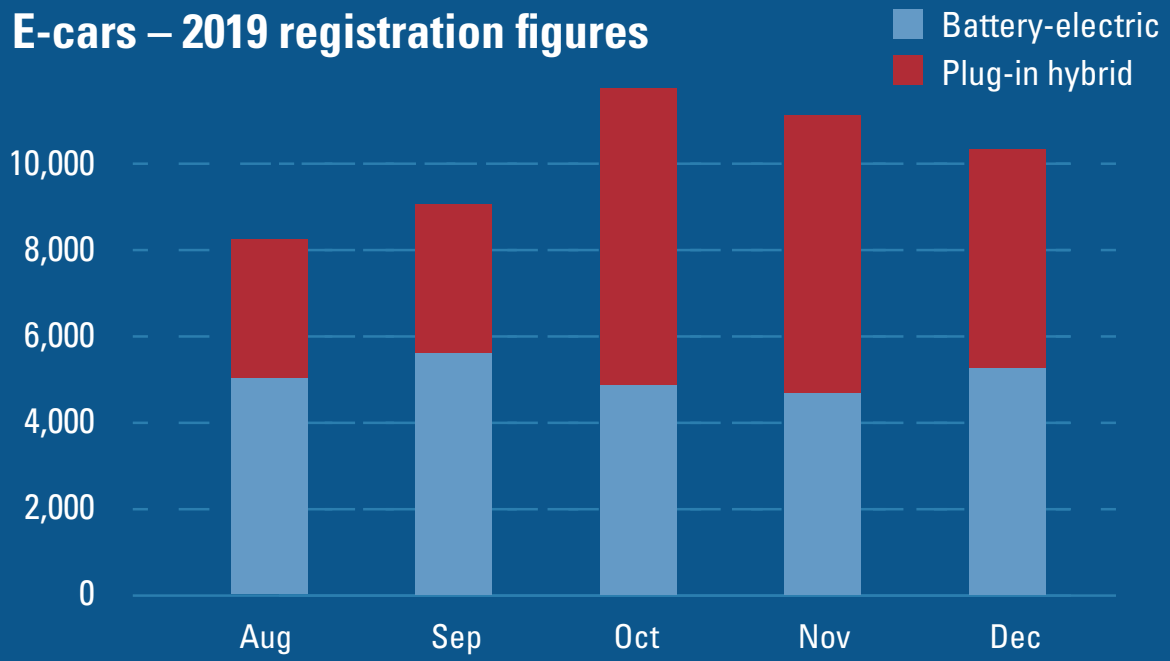
Clean mobility in Germany – key figures and projects (January 2020)

The latest figures, data and facts on clean mobility with alternative drives and fuels

NOW GmbH takes a holistically thought-out approach to clean and efficient electric mobility in an integrated energy system with the key technologies of batteries, hydrogen and fuel cells. NOW GmbH coordinates funding programmes for alternative fuels and drives and advises the federal government in these areas. The funding programmes are: The National Innovation Programme for Hydrogen and Fuel Cell Technology, Local Electric Mobility, Charging Infrastructure for Electric Vehicles, The Mobility and Fuels Strategy of the federal government.

E-cars – 2019 registration figures



146,456
battery-electric cars

705
hydrogen-operated cars

We are the national coordinating office for charging infrastructure. Our first objective:

1,000 new fast-charging locations

drive on Germany's roads

(Stock plus new registrations, status 01/2020, source: KBA)

HyLand – hydrogen regions in Germany

Competition of the Federal Ministry of Transport and Digital Infrastructure on supporting regional hydrogen concepts.

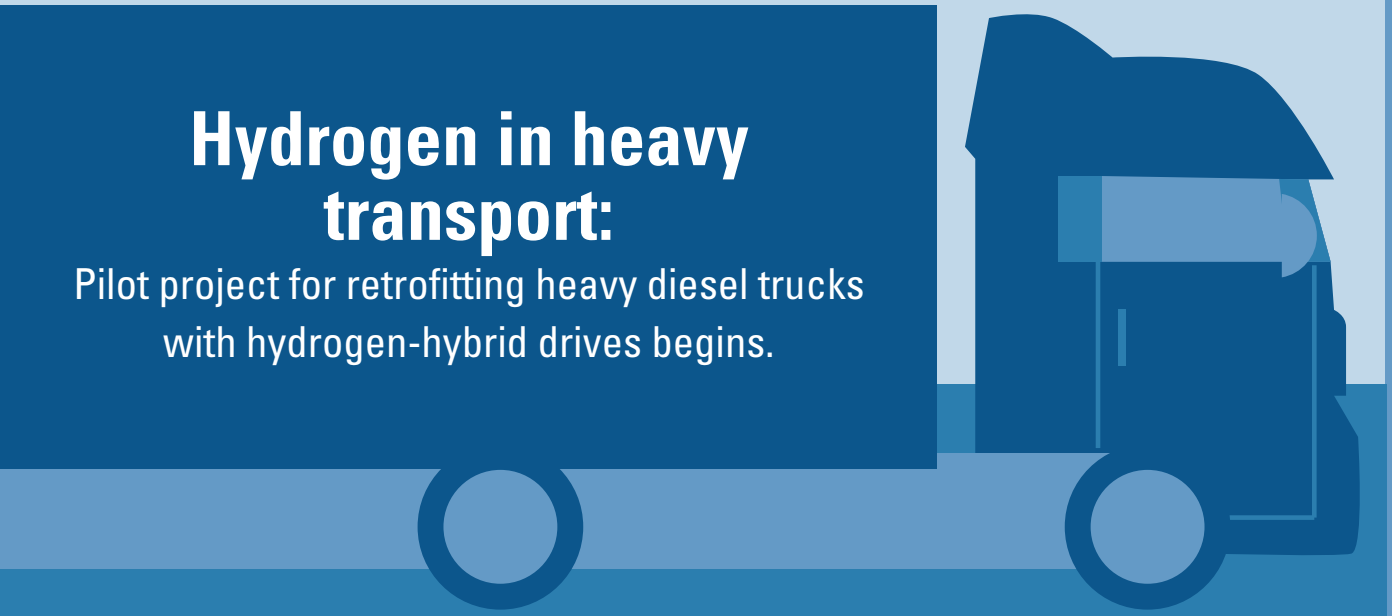
HYPERFORMER
IMPLEMENTATION

HYEXPERTS
REGIONAL CONCEPTS

HYSTARTER
ACTOR NETWORKS

Hydrogen in heavy transport:

Pilot project for retrofitting heavy diesel trucks with hydrogen-hybrid drives begins.

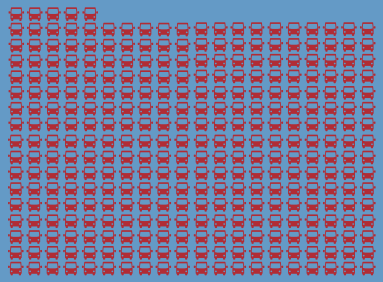


164,579

applications submitted for the environmental bonus for electric mobility

(Source: BAFA, status 01/2020)

Clean buses in Germany



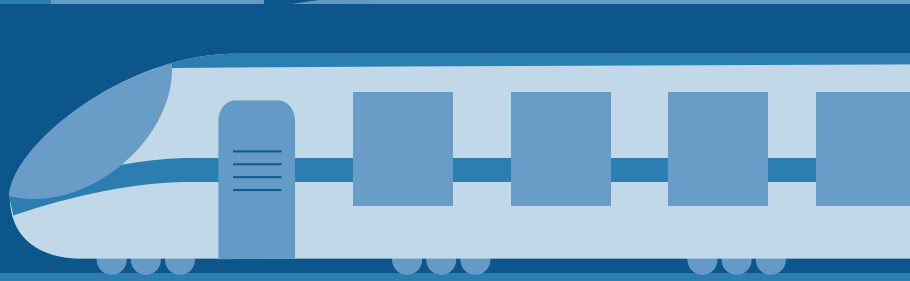
325

battery-electric

22

hydrogen-operated

(Stock plus new registrations, status 01/2020, source: KBA)



54%

of the German rail network is electrified. To reduce emissions on the non-electrified routes, drives with batteries and fuel cells can be used.

By 2038

the potential number of alternative drives used in local rail passenger services is estimated to reach up to 1,700-2,000 vehicles.

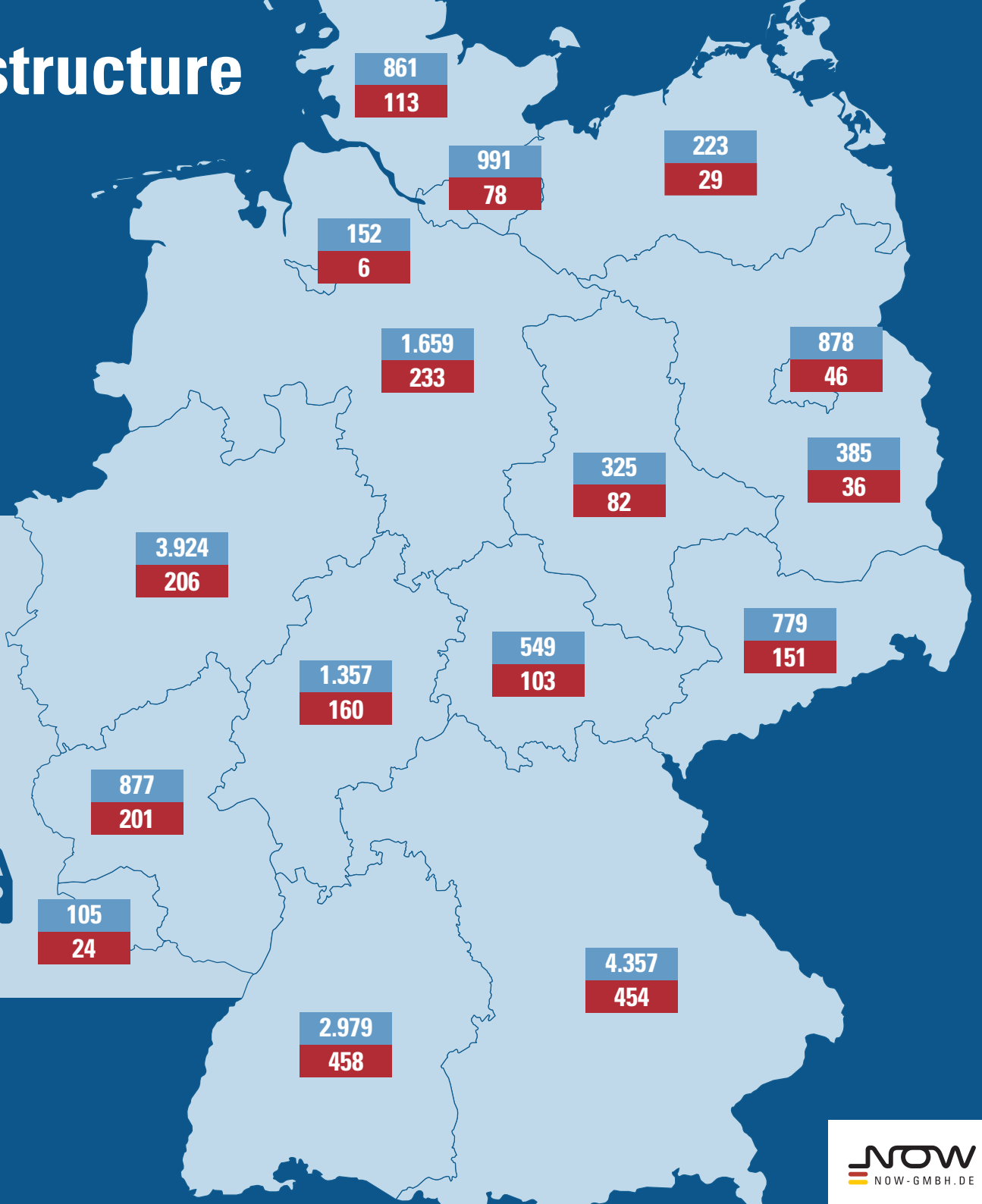
(Source: DLR prognosis in the framework of the study "Market analysis for alternative drives in regional rail transport in Germany" on behalf of NOW, 2020)

Public charging infrastructure

Stock according to federal state

Fast-charging points

Regular charging points



6

e-cars currently avail of one public charging point

(Status 01/2020; Sources KBA and BDEW)

Source: BNetzA
Status: January 2020

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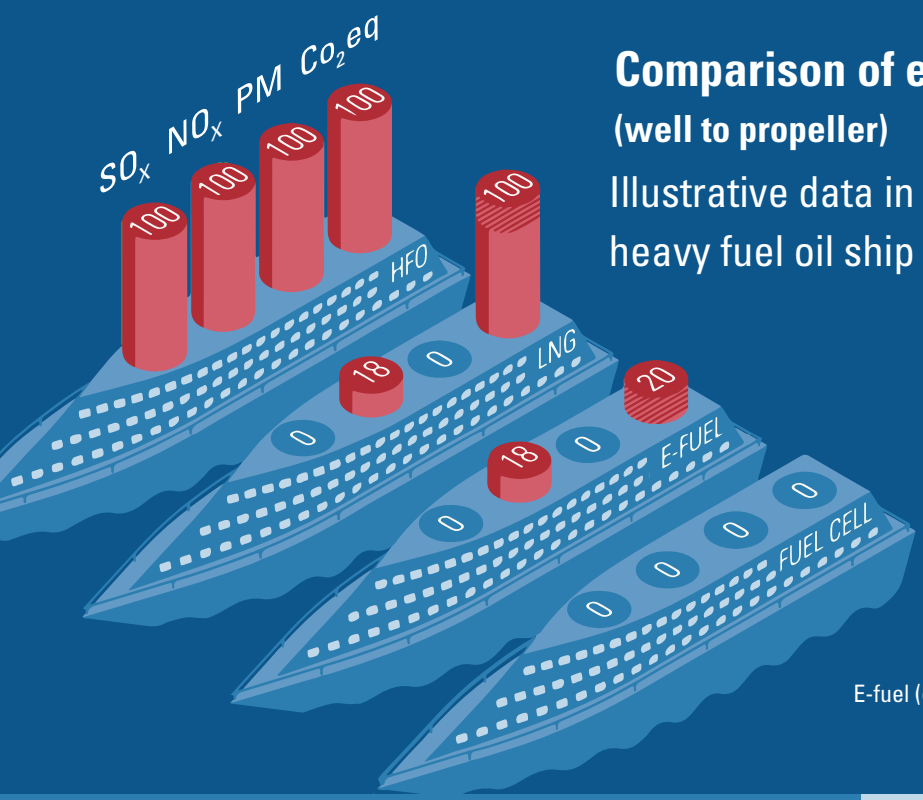

Comparison of emissions in ships

(well to propeller)

Illustrative data in per cent compared to a heavy fuel oil ship

HFO (heavy fuel oil)
LNG (liquefied natural gas)
E-fuel (e.g. to methanol, LNG) – electricity-based fuel
Possible methane emissions

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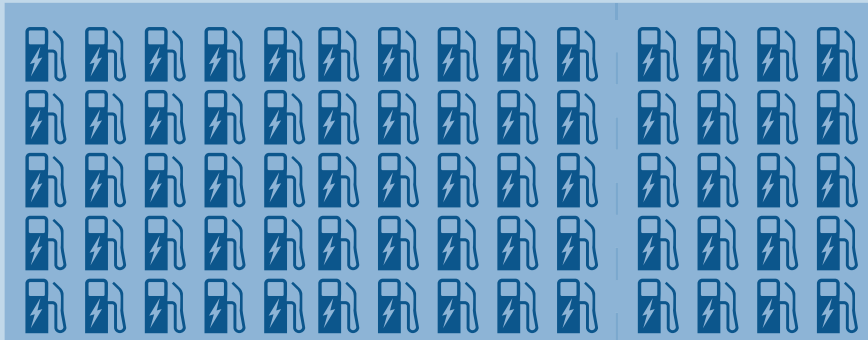
Approx. 3 millionen

e-vehicles are already on the road in China – that represents 1.5% of the entire vehicle stock.

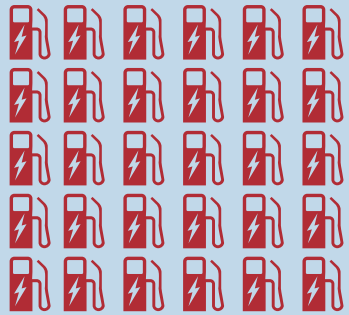
505

radio masts will be additionally equipped with fuel cell technology from 2019 in Baden-Württemberg, Bavaria, Brandenburg, Hesse and Saxony.

Hydrogen refuelling stations in Germany:



81
in operation (Status 01/2020)



Expansion target 2020:
100