



“eFuels it’s possible”

Marcos Marques

Power Fuels conference

23.06.2021 Global Alliance Power Fuels

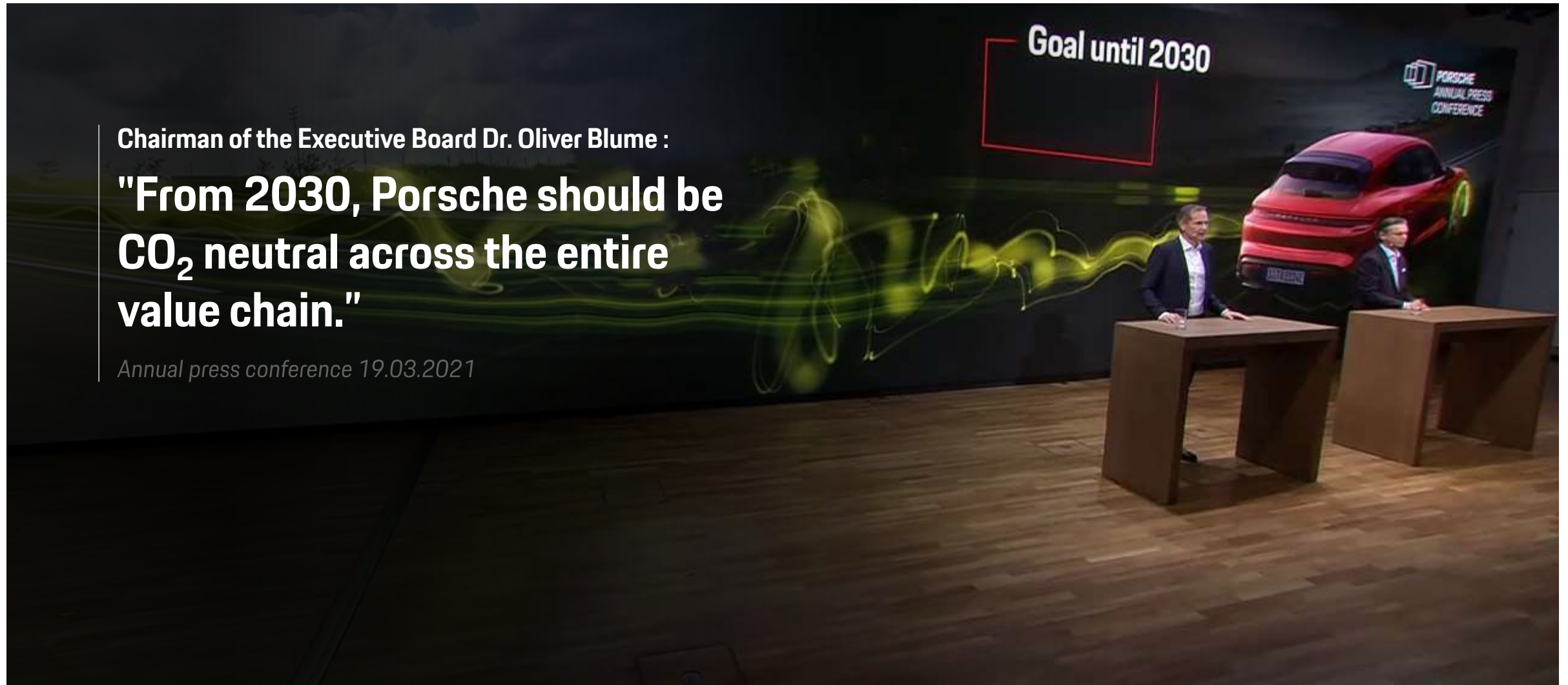
PORSCHE

Commitment to CO₂ neutrality by 2030

Chairman of the Executive Board Dr. Oliver Blume :

**"From 2030, Porsche should be
CO₂ neutral across the entire
value chain."**

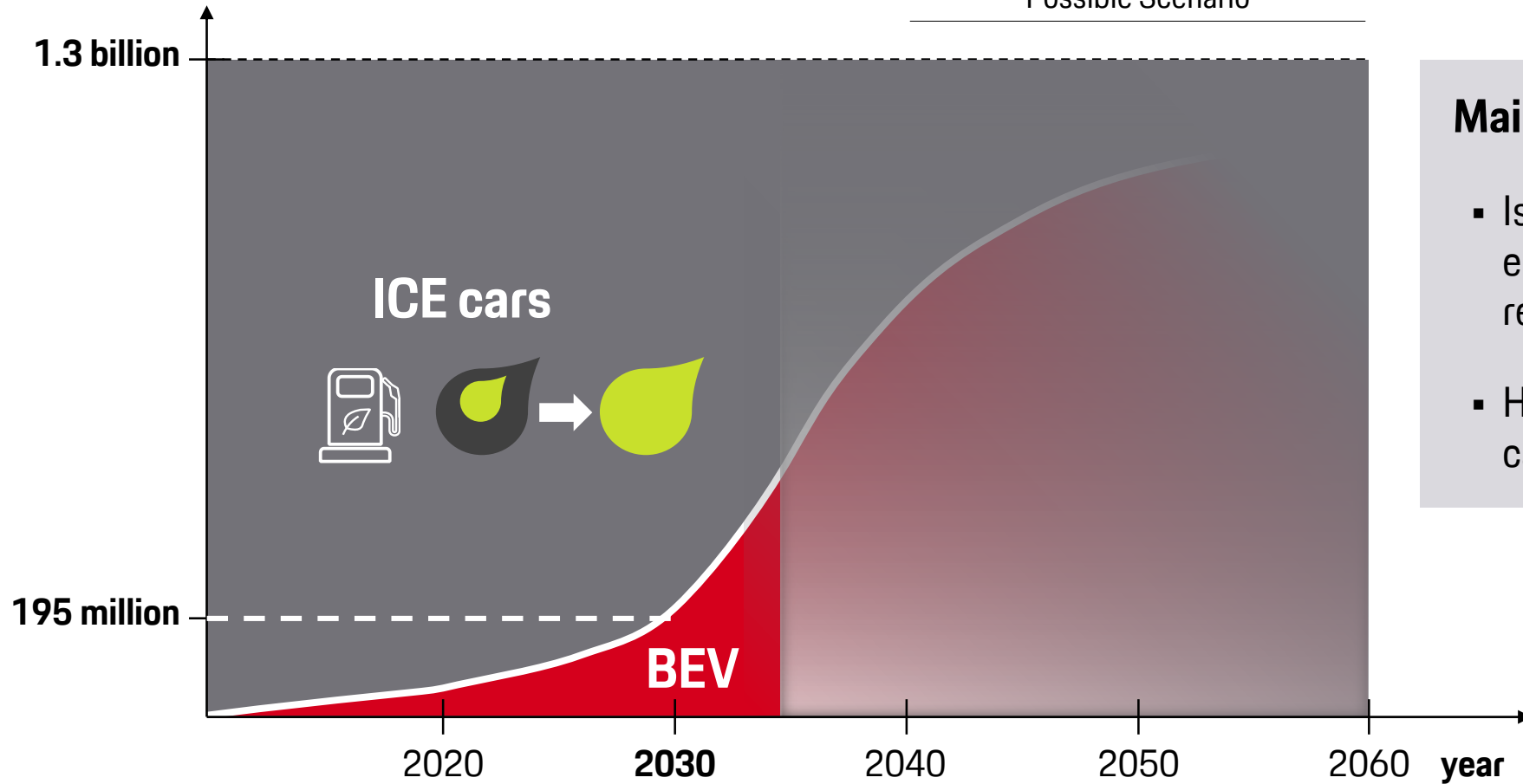
Annual press conference 19.03.2021



E-Mobility is the target, but how will the ramp-up look like?

Cars worldwide

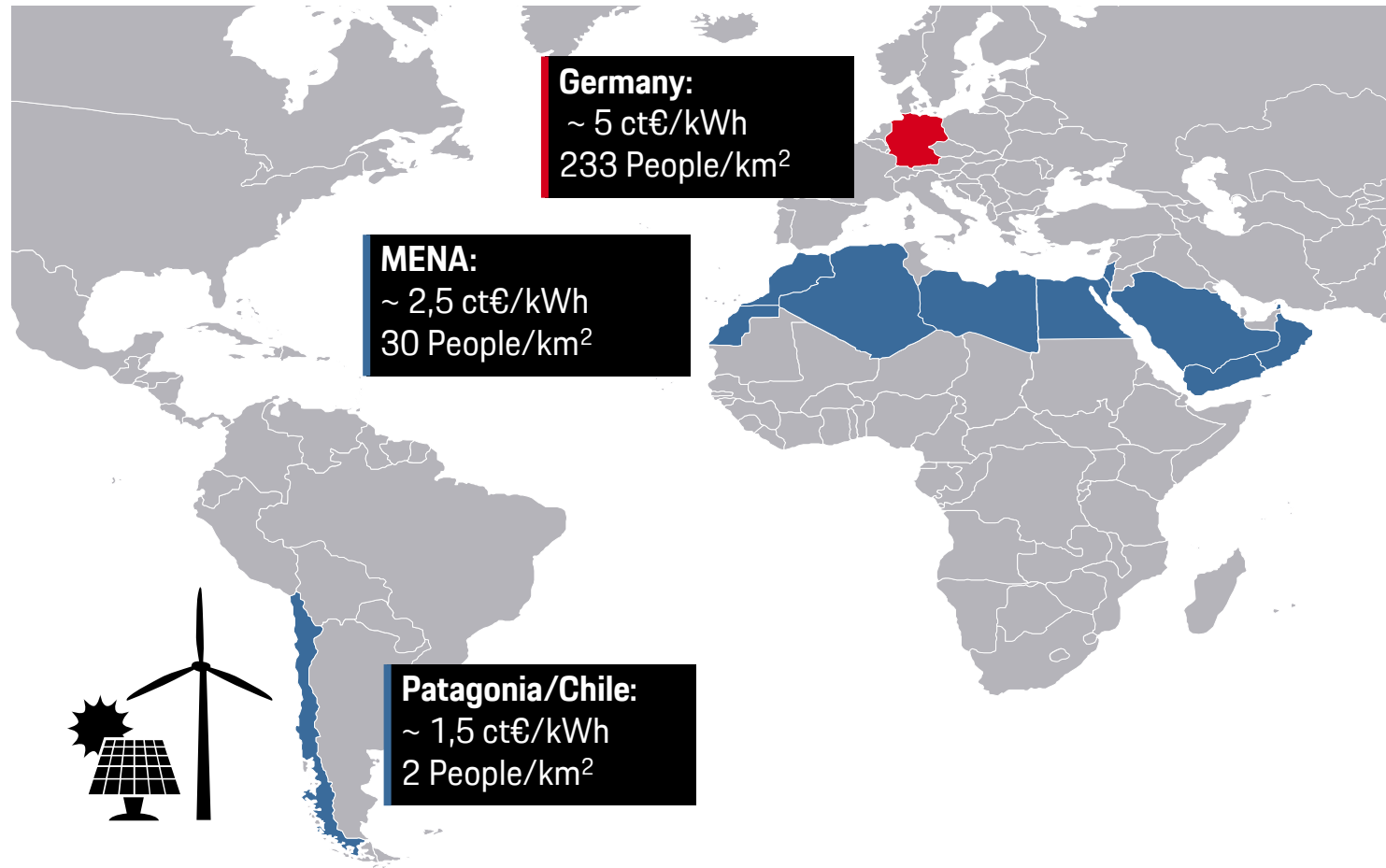
Possible Scenario



Main questions

- Is electrification of new cars enough for sufficient GHG reduction?
- How can we involve the existing car fleet?

Industrialization of eFuels is a global task



Worksplit/assets on the path to eFuels:

Germany:

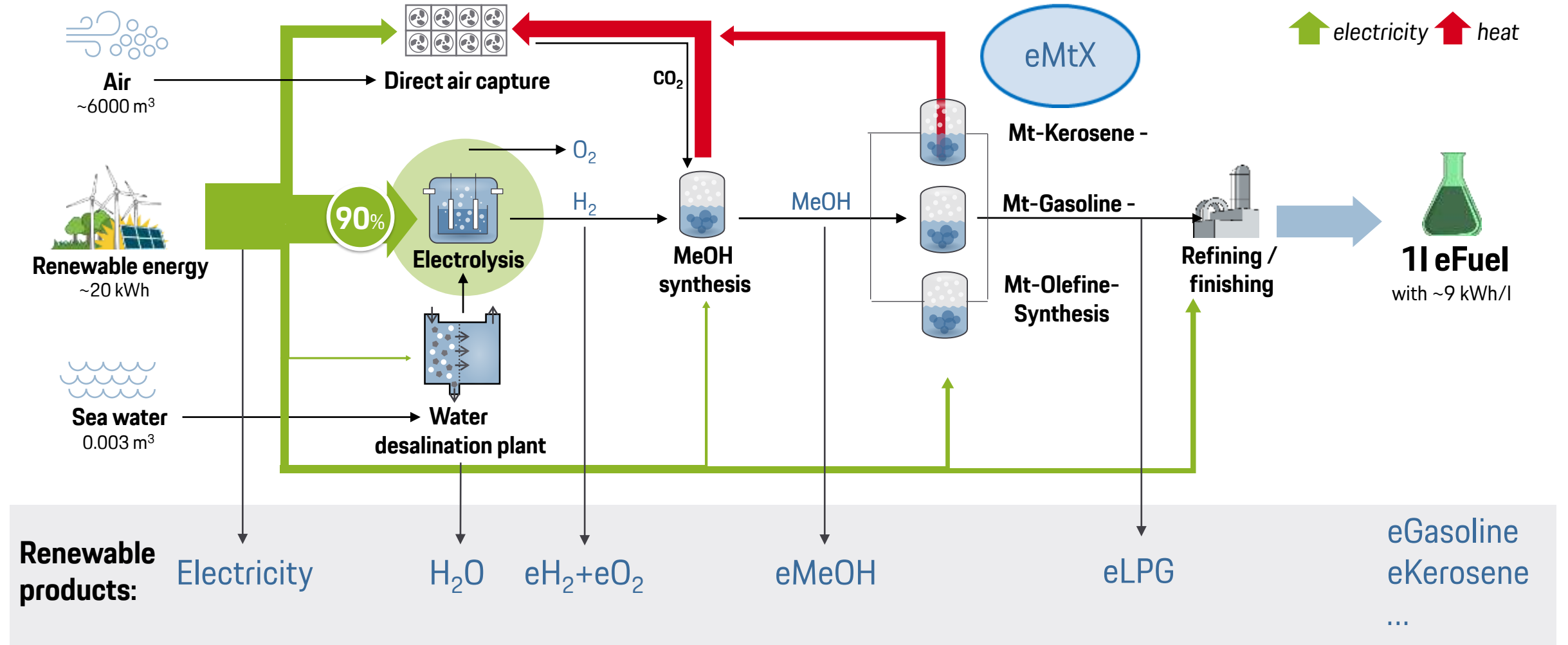
- High technological competence
- Development of large industrial projects

MENA/Chile/....:

- Competence and experience in developing regional projects
- Best locations for renewable energy guarantee competitive costs
- Surplus of renewable energy
- Readiness for economic participation

Source: LBST International Hydrogen Strategys 08/2020, Statista BMBF 2020; Dr. Ing. h.c. F. Porsche AG; Frontier Economics

The production of eFuels with versatile intermediate products enables long-term flexibility (some cases require research)



Porsche steps forward: Haru Oni – a Project of HIF (Highly Innovative Fuels)



Source: Siemens Energy

Pilot plant for technology verification of the interlinked process steps:

- Technology path: from power supply to finished eGasoline.
- Process steps: Wind power, direct air capture, electrolysis, methanol synthesis, gasoline synthesis.
- Our Partners:



Summary



- With the use of eFuels as a supplement to e-mobility, defossilization can be accelerated
- The challenge is to make the required renewable energy available in the right form at the right location
- The generation of eFuels has great potential for the co-usage of intermediate green products (e.g. H₂, Methanol)
- Porsche is pioneering this additional route, to open up today's world-class renewable resources