

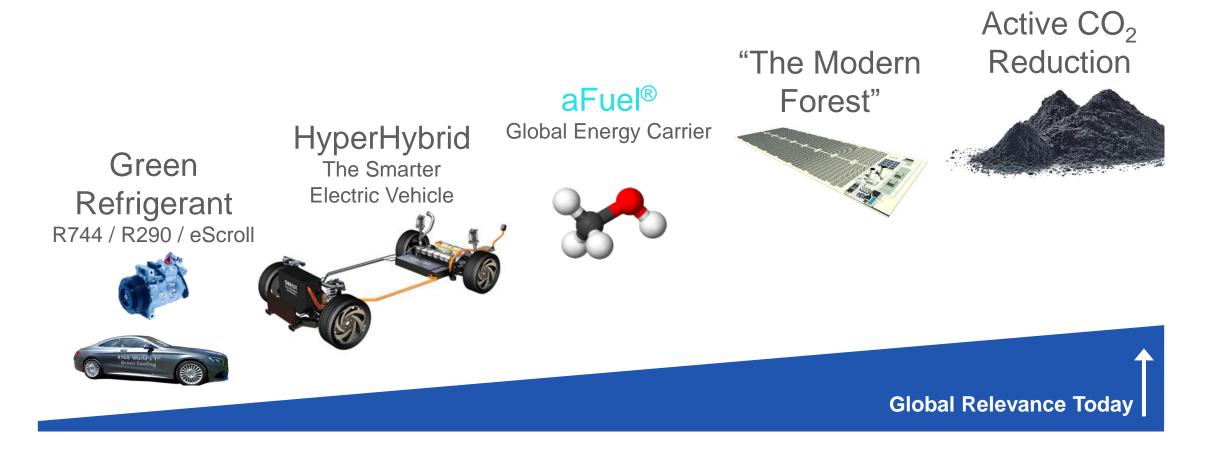
aFuel®

Sustainable Energy Carrier Production via Direct Air CO₂ Capture

Oliver Obrist // CEO Obrist DE GmbH 25th November 2022 // A3PS ECO Mobility 2022



Offering Green Technology for the World





Operating Globally





Technology Market Leader Green Refrigerant

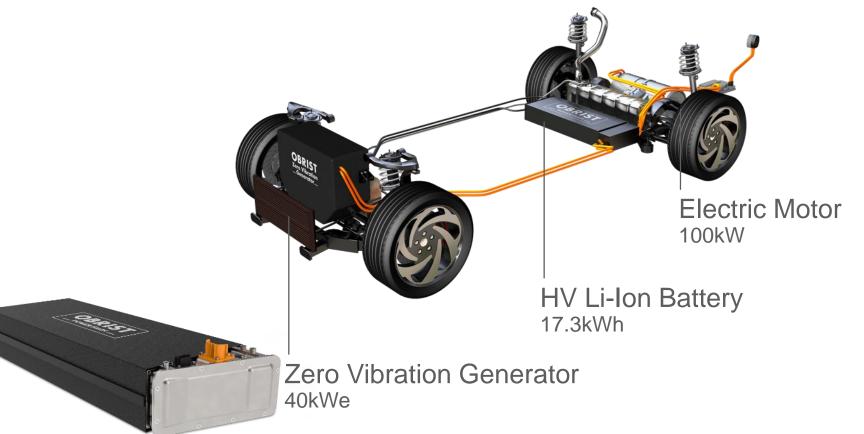
- First CO₂ A/C-Compressor in Series
- EHR Systems for Trucks
- Air Supply Pumps e.g. Fuel Cell
- Thermal Management





HyperHybrid Electric Vehicle 2.0

- EV driving by Serial Hybrid
- No range anxiety
- Resources
- Affordable







eMethanol Vehicle Presentation Carbon2Chem



Prof. Dr. Robert Schlögel

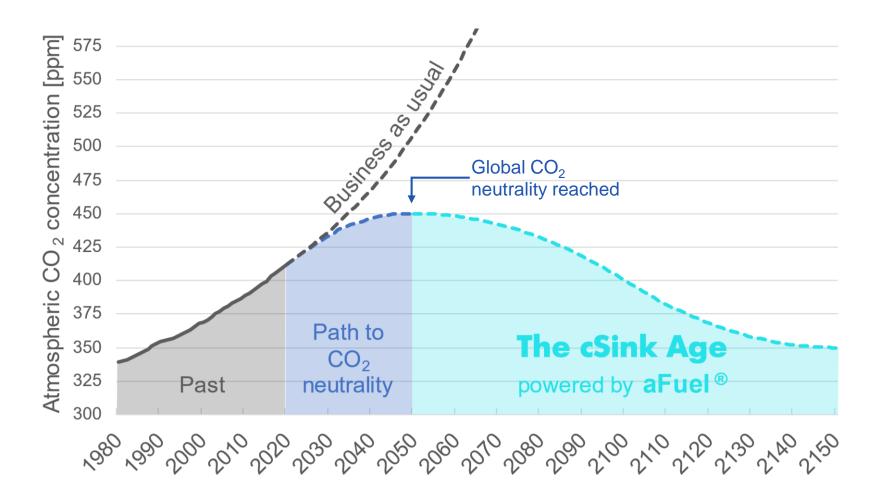
Director Fritz Haber Institute of Max Planck Society; Director Max Planck Institute for Chemical Energy Conversion

Anja Karliczek Former Minister of Education and Research

10 Demonstrator

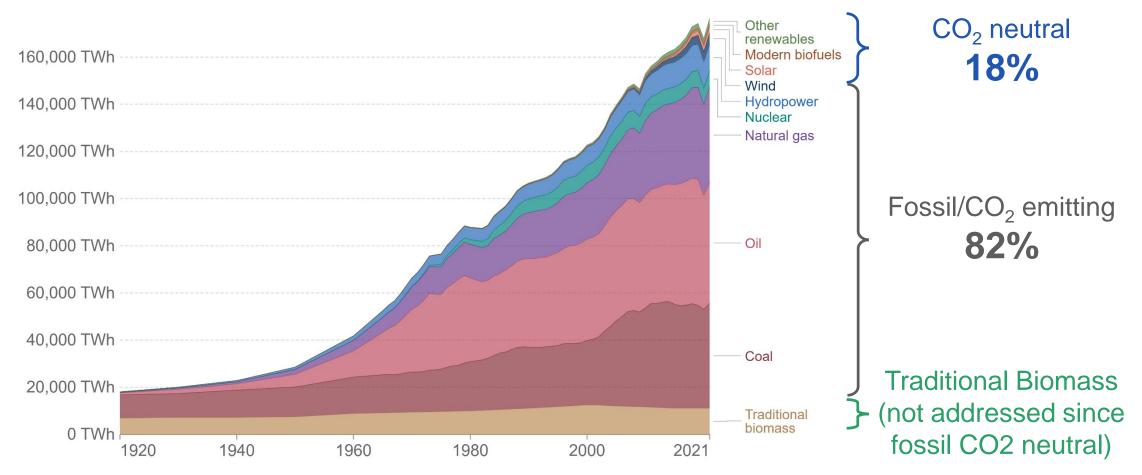


The Path to Global CO₂ Negativity Atmospheric CO₂ Reduction





Fossil & Renewable Energy Primary energy worldwide

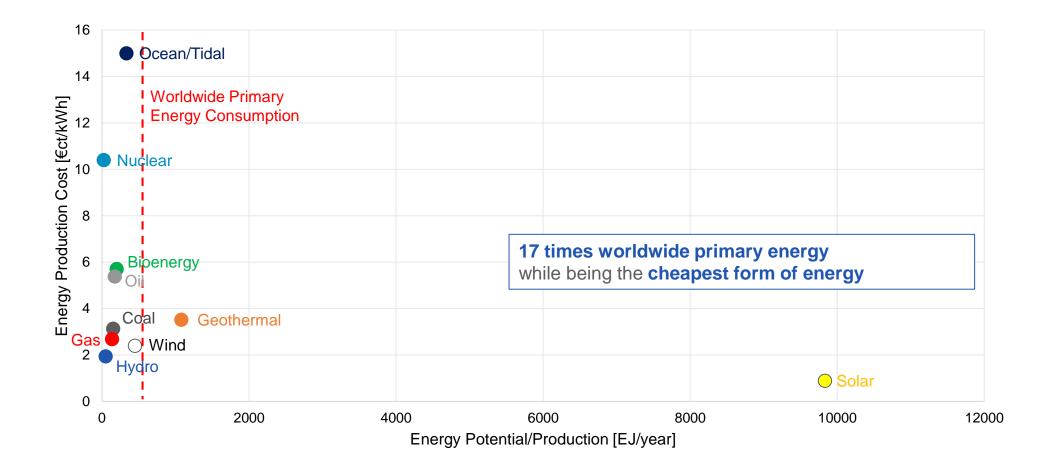


Primary energy is calculated based on the 'substitution method' which takes account of the inefficiencies in fossil fuel production by converting non-fossil energy into the energy inputs required if they had the same conversion losses as fossil fuels.

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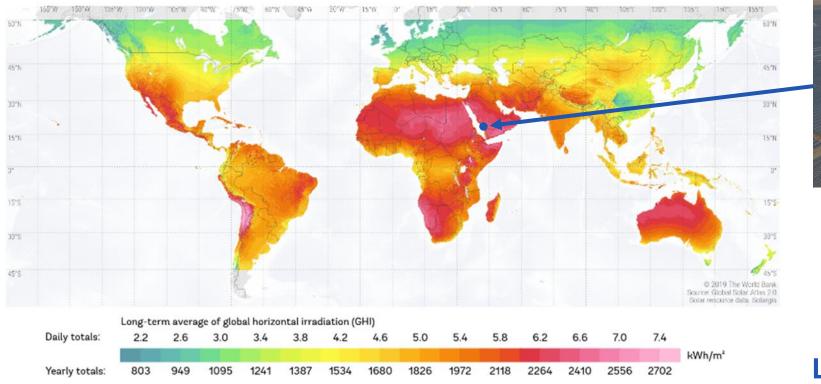


Renewable Energy Global Potential/Production and Cost





Photovoltaics in Sun Belt Cheapest Energy worldwide





Shuaibah, Saudi Arabia 600MWp 2400kWh/m² irradiance

0.88 €ct/kWh Lowest LCOE worldwide (April 2021)



eMethanol Very Easy and Broad Application

Derivatives

- Plastics
- OME
- DMC
- MeFo
- MTBE



Replace Fossil Energy

Oil

- Gasoline
- Diesel



• Jet Fuel

Gas

- Thermal Power Plants
- Heating

Coal

- Thermal Power Plants
- Industry

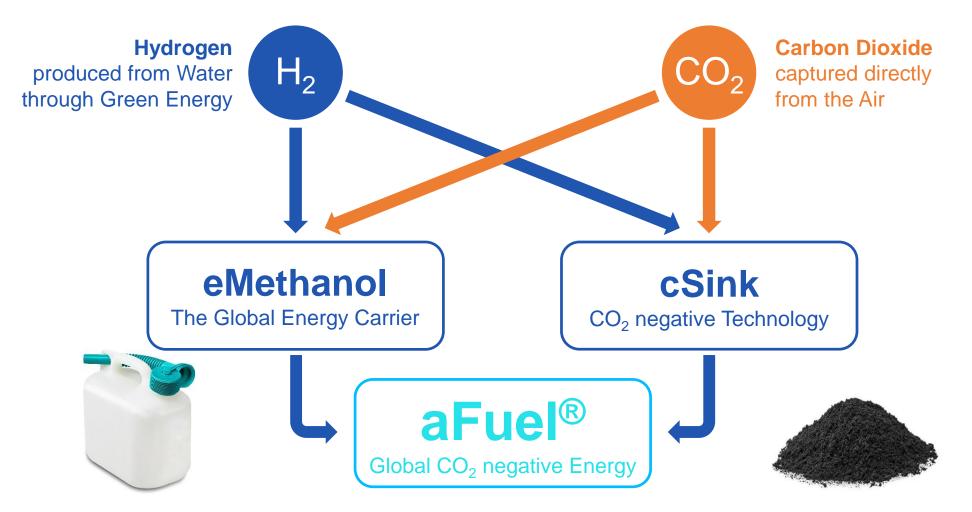
cSink

- Activated Carbon
 Production
- Soil Fertilizer
- Graphite Production (Batteries, ...)
- Indefinite, Easy and Safe Storage



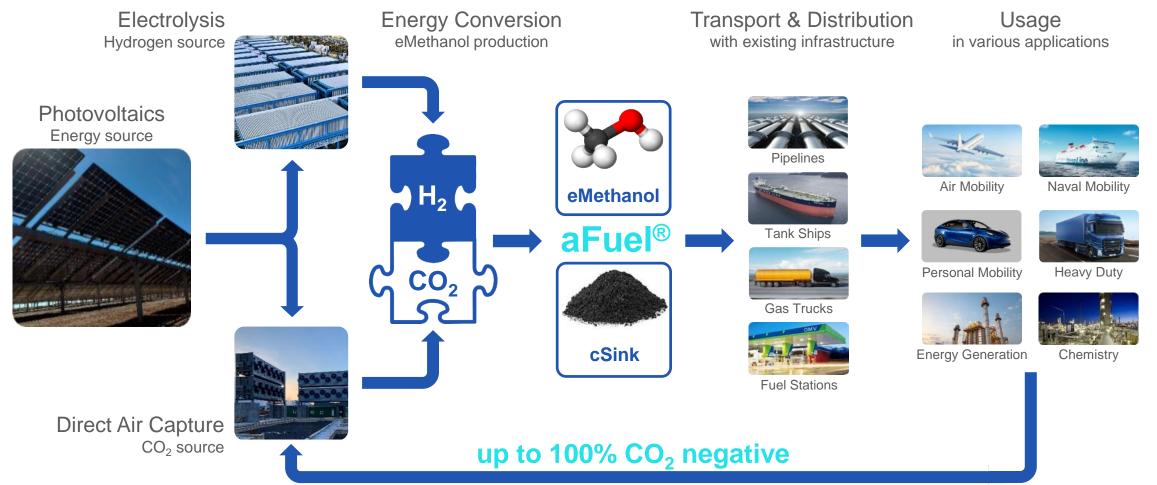


aFue[®] The Combination of eMethanol and cSink



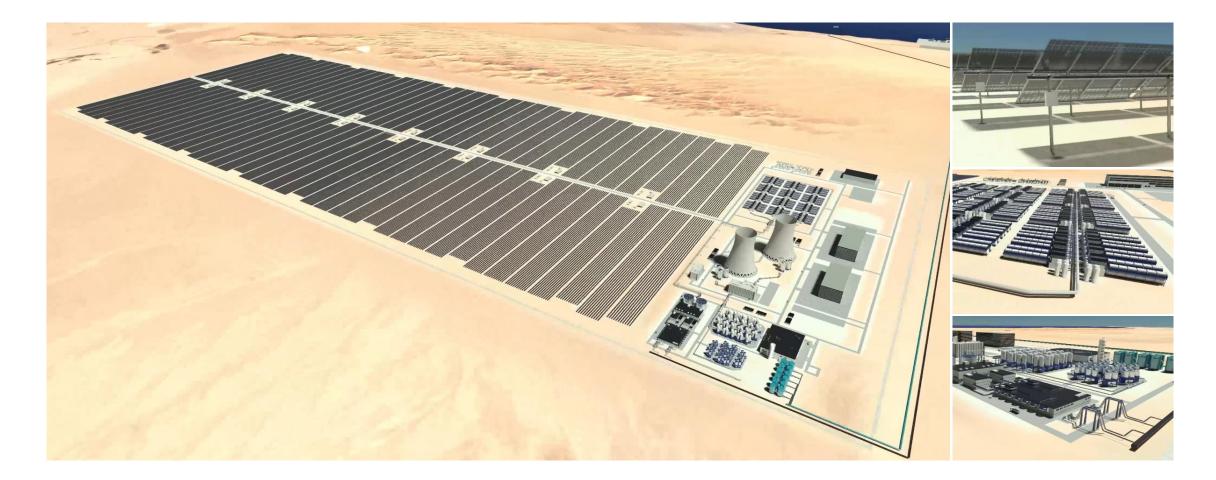


aFuel[®] Global Energy, but CO_2 negative





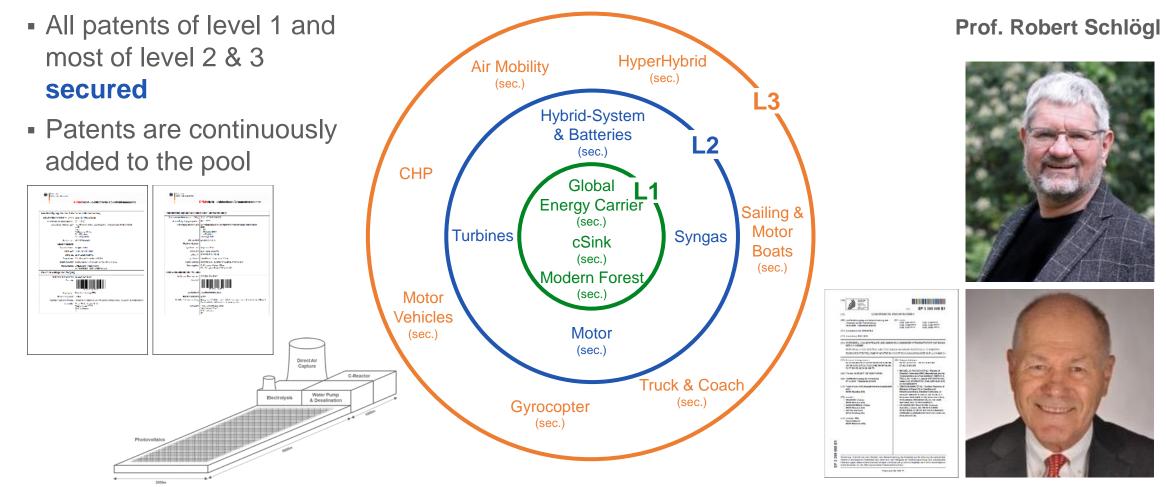
aFuel[®] Plant Blueprint Size (10km² PV)





eMethanol IP-Pool Secured and Available

Cooperation with

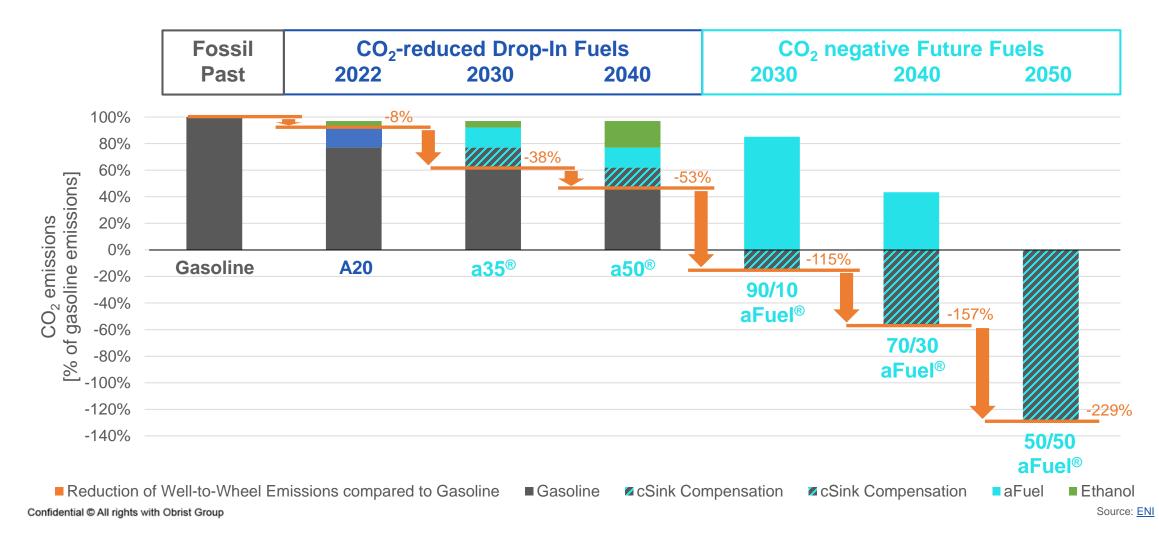


Dr. rer. nat. Dipl.-Chem. Eberhard Jacob 15

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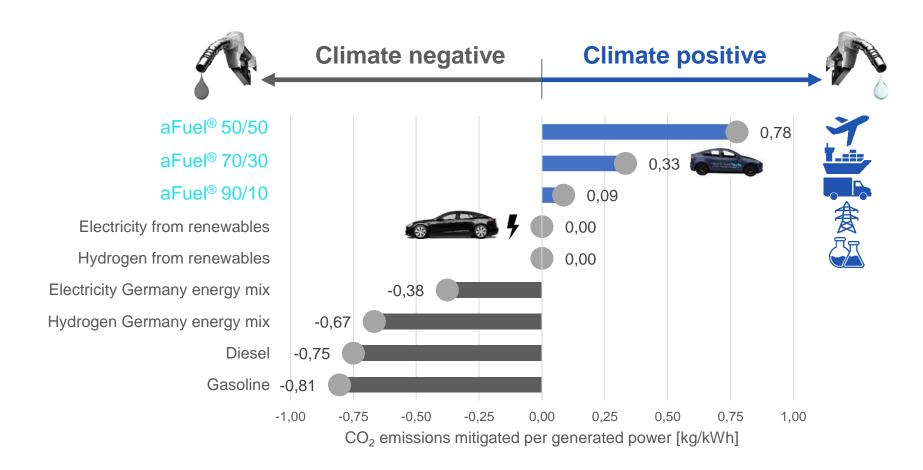
aFuel[®] Blending Backwards-Compatible Solution for existing Vehicle Fleet





aFue[®] World's First Global Climate Positive Fuel

- Actively reduce CO₂ out of the atmosphere
- Other non-carbonbased energy carriers can only be CO₂-neutral





Be Part of the Solution!

OBRIST Powertrain GmbH

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