aFuel®

Worlds First Climate-Positive Energy Carrier based on H₂

for

h2connect.com

Spielbank Lindau



Frank Obrist CEO & Founder

July 21th, 2023



The Development of Obrist 40 Years of Green Technology for the World





Atmospheric CO₂ Reduction The Path to Global CO₂ Negativity

- After reaching CO₂ neutrality, it is mandatory to reduce CO₂ levels in the atmosphere to reverse all damage that humanity has caused over the past centuries
- "CO₂-Negative = Climate-Positive
- aFuel® enables not only CO_2 neutrality, but even CO₂ negative energy generation



This is the first solution to stop global warming and reverse it! Source: NOAA, EEA



Fossil & Renewable Energy Status Quo

Global primary energy consumption by source

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





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Global Energy, but fossile

- Current global energy system is largely based on three main fossil energy carriers crude oil, natural gas, and coal.
- Global infrastructure for our global energy system has been developed for decades and centuries
- Global fossil energy demand is not only based on mobility, but also all forms of industry and residential applications







Political Energy & Climate Goals, but ...

- Goals and pathways provided by political decision makers never reached
- Proposed solutions (BEV, hydrogen, and others) are **not** a sustainable global path into the future
- Apart from resource and applicability constraints, the infrastructure is not present and will take decades to adapt





Photovoltaics in Sun Belt Cheapest Energy worldwide





Shuaibah, Saudi Arabia 600MWp 2400kWh/m² irradiance

0.88 ct/kWh Lowest LCOE worldwide (April 2021)



Renewable Global Energy, but Climate-Positive: **aFuel**[®]





-aMethanol®

aCarbon

aOxygen

Dioxide Credits - Volume

6 289 000

ns/yea

tons/year

Giga Plant Genel® World's firs

GFUel® World's first climate-positive Energy Carrier

Carbon

PLANT SPECS

Plant Size: 120km² Peak Power: 14.4 GW_p (Modular Plant Design) CAPEX: approx. 20b\$ Costs: approx. 1.5b \$/year Sales: up to 20b \$/year Net Income: up to 18.5b \$/year Payback Period: up to 1.1 year License RR-Fee: 1%



GFUE Financial Calculation Cost per ton

16€

46€

- Running Costs: 71€
 Amortization: 236€
- Interest: 42€
- Other Costs:
- Distribution:

aFuel® production cost: 412€/t 0.33€/liter or 0,05€/kWh



OBRIST __ TECHNOLOGIES __



Potential Licensees Companies/Industries





Experts, Network and Supporters

 Backed and supported by world-leading scientists



Prof. Schlögl











Prof. Radermacher Prof. Brasseur Prof. Tillmetz Dr. Jacob

Prof. Olsowski

- Supported by United Nations and Governments
- Media: NZZ, FAZ, Welt, 3Sat, N24, ARD.....







Dr. Gerd Müller, UNIDO Minister Karliczek, BMBF Chancellor Kurt Nehammer

Cooperation with world-leading Companies: Siemens Energy, thyssenkrupp, Geely, …

Investor Options

- Option #1: Capital Increase:
 - 1) Securing and extending patents
 - 2) Demo plants
 - 3) Marketing
- Option #2: Joint Venture:
 - 1) Marketing & Sales JV
 - 2) Production JV
- Option #3: License Agreement:
 - 1) Standard License Agreement
 - 2) Flagship License Agreement





"Together we will create sustainable future and a business case for us and generations to come"

CEO Frank Obrist OBRIST DE GmbH

Felix-Wankel-Strasse 10 DE-88131 Lindau GERMANY

+49 8382 88936 11 office@obrist.de www.obrist.at