

[the blue energy-turn]



nominated for the German Environmental Award 2013
DIE FAMILIEN UNTERNEHMER ASU

Power to Gas to Fuel

P2H® - P2G2F®

Zoz Hydrogen Technology

Nanostructures for Zero Emission Future Transportation & Energy



nanostructured H2-storage Hydrolium®

environmentally friendly and cost effective



H2-solid-state absorber tanks H2Tank2Go®

virtually pressure-less, safe, clean and lasting



click'n'go system H2Tank2Go®

replacing tanks within seconds



exchange at a tank vending machine

refueling e. g. at any home depot



automotive future names Hydrogen

with *20 tanks you can drive your car



Power to Gas to Fuel Zero Emission Mobility

only makes sense if energy is provided fossil-free

*at high potential of drastic decrease in mid-term future by improvement of solid state storage capability e. g. complex metal hydride systems - not for tomorrow but after tomorrow

[Zoz Zero Emission Vehicle Fleet]



autonomous H2-driving in the counties
Sauer-/Siegerland in NRW, Germany

Power to Gas to Fuel

Zoz Zero Emission Vehicle Fleet

10 battery electrified passenger cars/vans with decentralized, well diversified, real and paid use in the area Sauer-/Siegerland for upgrading the ¹Iron-Bird from ²H2-OnAir as hydrogen range extenders under autonomous H2-operation including area-wide infrastructure (tank vending machines) in the "Blue Oasis Sauer-/Siegerland".

¹⁻² iron Bird = H2-platform, FuelCell & solid state absorber tanks
H2Tank2Go®; H2-OnAir = Eurogia P.P., Airbus, SFL, Zoz etal.

Hydrogen-Storage-Tank H2Tank2Go®

Economic energy storage for mobile & stationary use, superior safety level, existing infrastructure, brilliantly simple, flexible multi-tank-operation (fuel gauge, partially recharging), vehicle/station refueling in seconds, MOT-approval in 2014, no one has come so far.

Zoz Hydrogen Technology - Power to Gas to Fuel

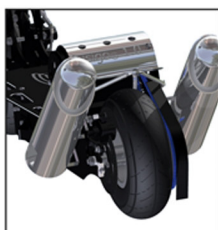
Since "Power to Gas" cannot be economic, incorporation of fuel-consumption/mobility is ultimate. Fuel cost replacement can even cover losses from PtG where millions of H2Tank2Go® can provide a mass energy storage needed for the German Energy Turn.

Only if H2-fuel is generated "renewable", energetic efficiency does play a minor role, economic efficiency will decide and mankind & environment will win.

Hydrogen-Kickboard - intermediate result

April 2011
prototype

2011/2012
vision



April 2012
semi-serial vehicle



isigo®H2.0 with fuel cell and
H2-solid state absorber tanks H2Tank2Go®



phase I:

10 ZEV's, battery electrified,
12 E-charging stations

phase II:

upgrading ZEV's to H2-power
10-15 tank vending machines

September 2014

Iron-Bird 1st PT

January 2014

10 Zoz ZEV's

July 2013

1st Zoz ZEV



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