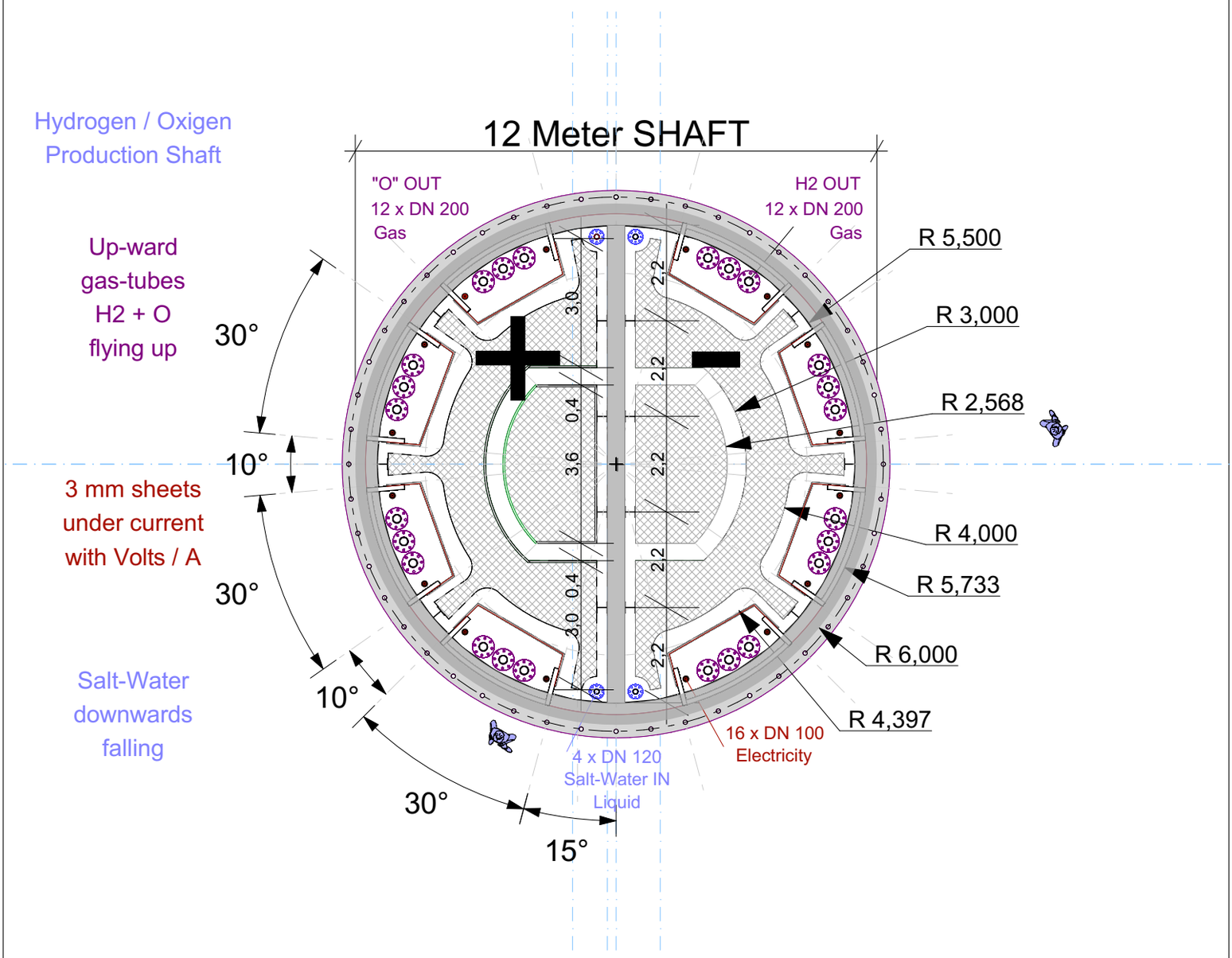
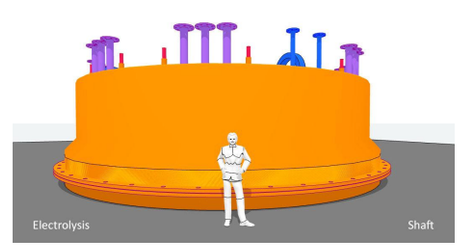
ARCHICAD TRIAL VERSION

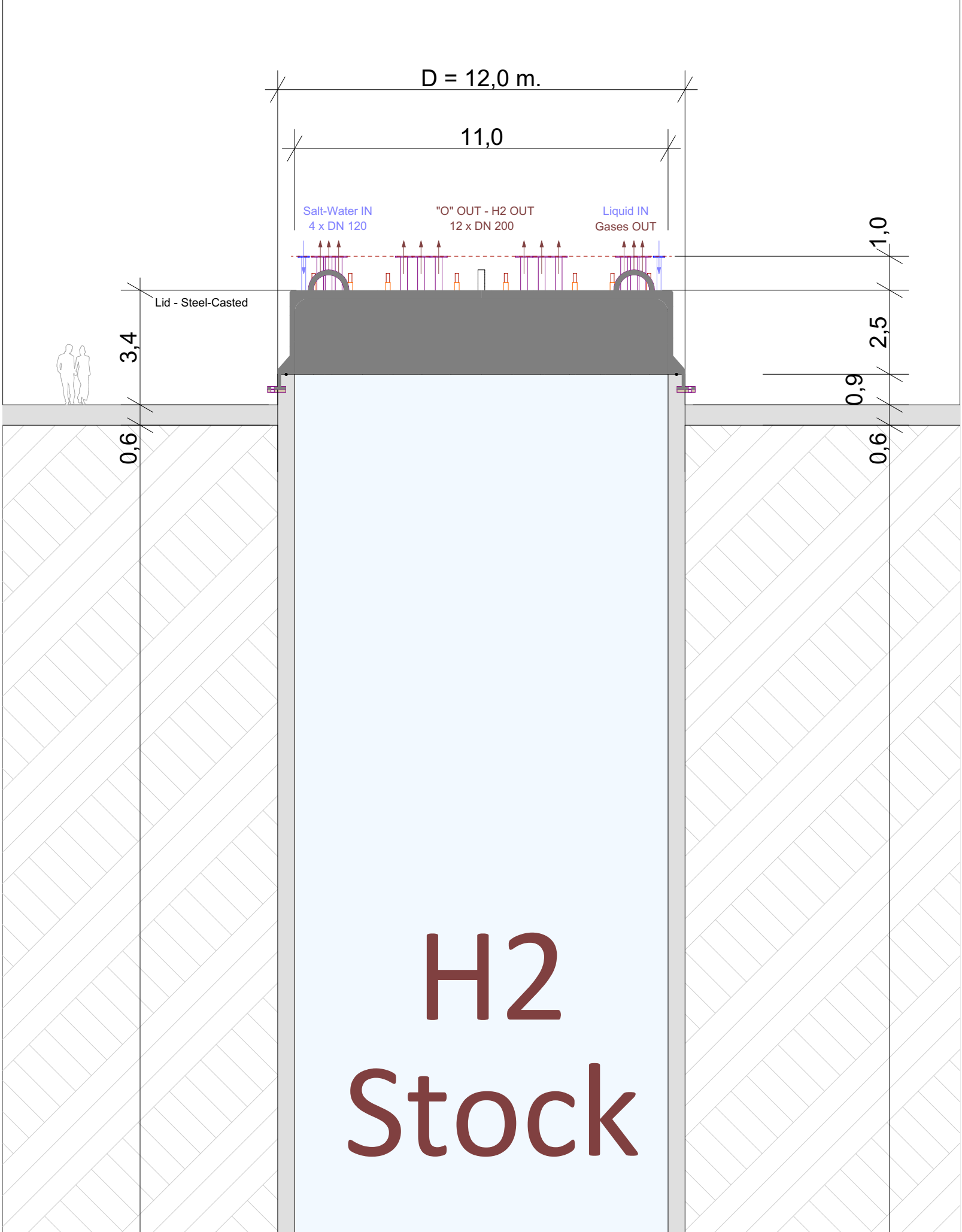
Water-Electrolysis-Production-Shaft

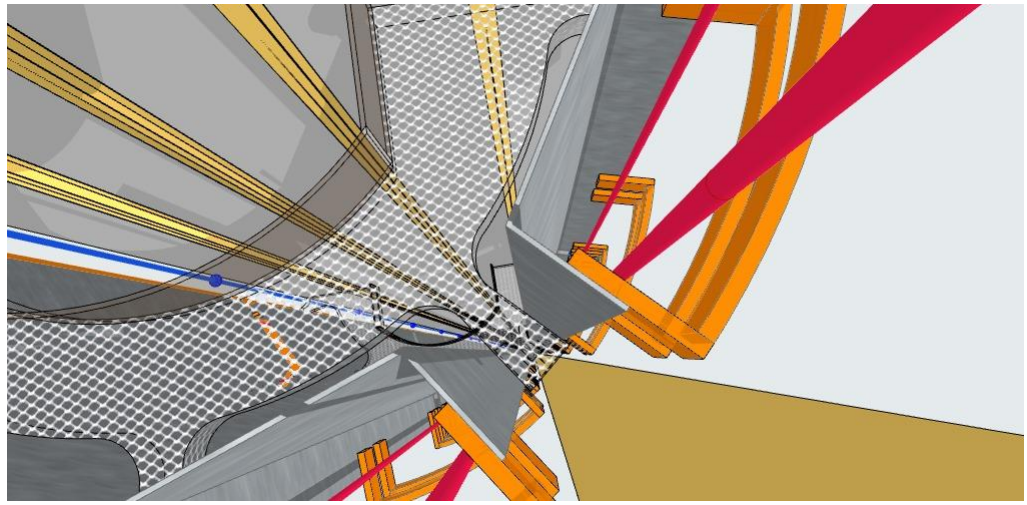
>>> Hydrogen-Oxigen-Production-Shaft - allows Hydrogen production on big scale from 30 MW up to 700 MW up to 1.600 MW - design for Germany - big Windparks with 7.350 MW in off-shore north sea backyard - #Hydrogen #Oxigen #Production #Shaft #IngGoebel

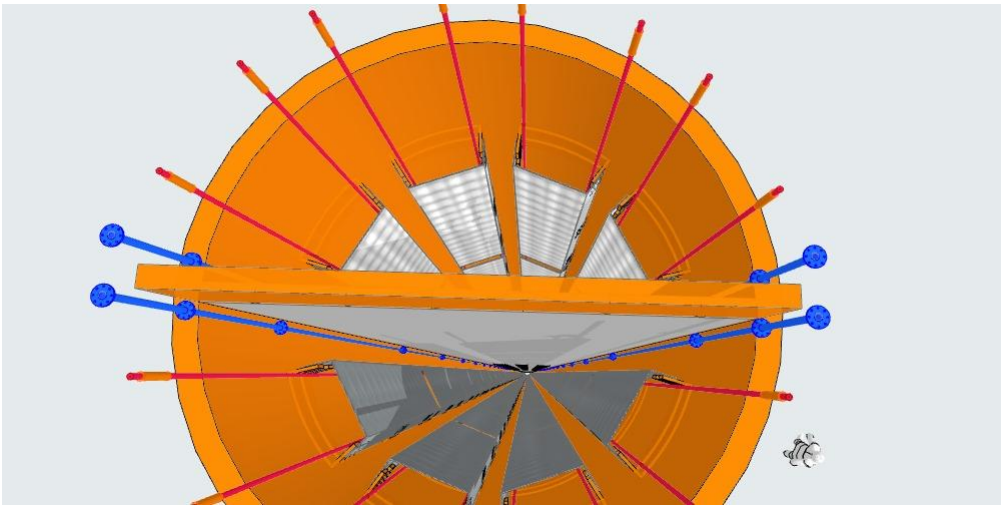
>>> Wasserstoff-Sauerstoff-Produktions-Schacht - ermöglicht industrielle Wasserstoff Erzeugung - 30 MW, 700 MW, 1.600 MW - für Deutschland - Anschluss an einige XL Windkraft-Parks mit max. 7.350 MW - #Wasserstoff #Sauerstoff #Produktion #Schacht

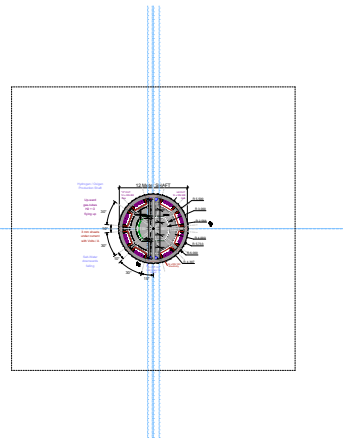


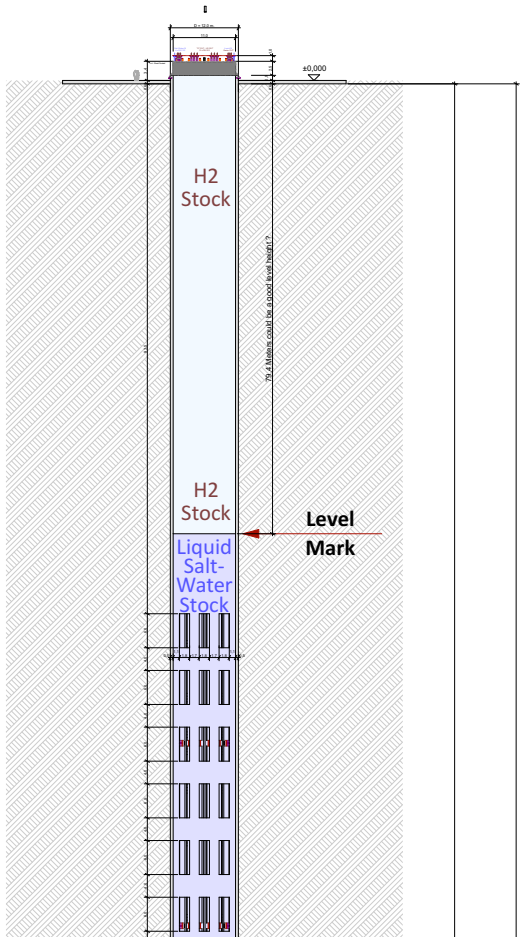


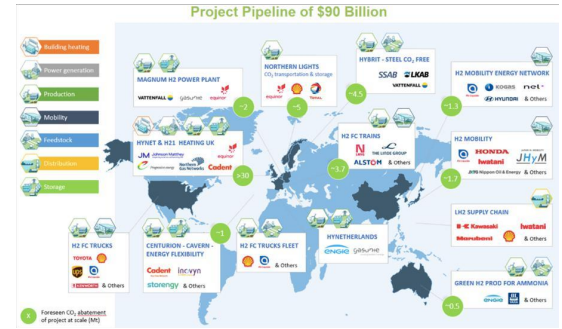

D = 12,0 m.
11,0
Salt-Water IN
4 x DN 120
"O" OUT - H2 OUT
12 x DN 200
Liquid IN
Gases OUT
Lid - Steel-Casted
3,4
0,6
1,0
2,5
0,9
0,6
H2
Stock







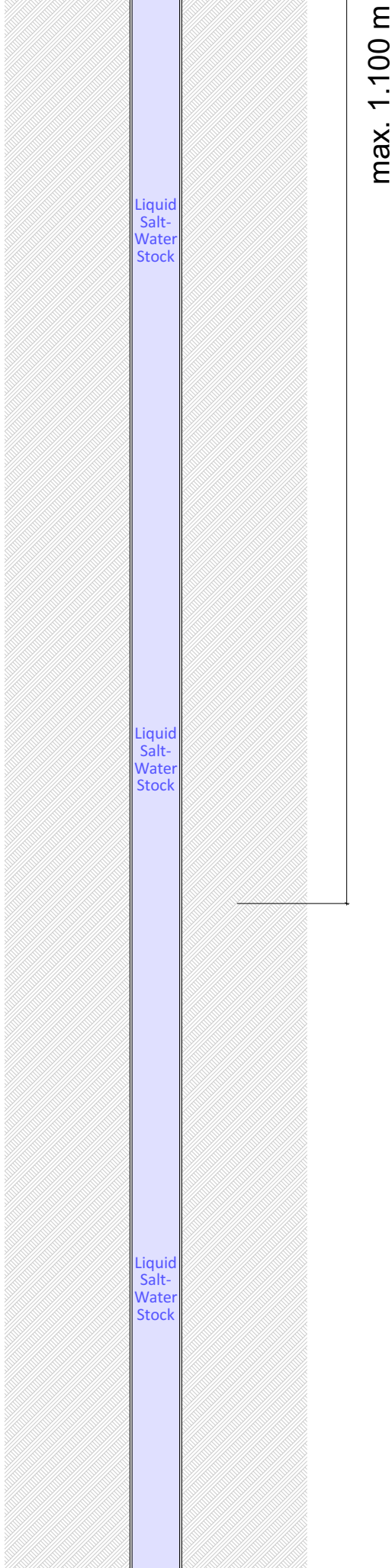

±0.000
H2
Stock
79.4 Meters could be a good level height?
H2
Stock
Level
Mark
Liquid
Salt-
Water
Stock

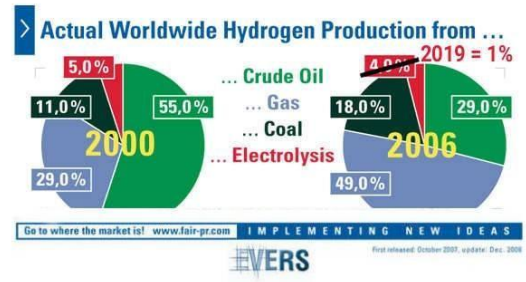

Project Pipeline of $90 Billion
Building heating
Power generation
Production
Mobility
Feedstock
Distribution
Storage
MAGNUM H2 POWER PLANT
NORTHERN LIGHTS
HYBRIT - STEEL CO2 FREE
H2 MOBILITY ENERGY NETWORK
HYNET & H21 HEATING UK
H2 FC TRAINS
H2 MOBILITY
LH2 SUPPLY CHAIN
H2 FC TRUCKS
CENTURION - CAVERN - ENERGY FLEXIBILITY
H2 FC TRUCKS FLEET
HYNETHERLANDS
GREEN H2 PROD FOR AMMONIA
Foreseen CO2 abatement of project at scale (Mt)

ALL AROUND #13
TEAMWORK
INTO THE DEPTHS
DBHD Materialien

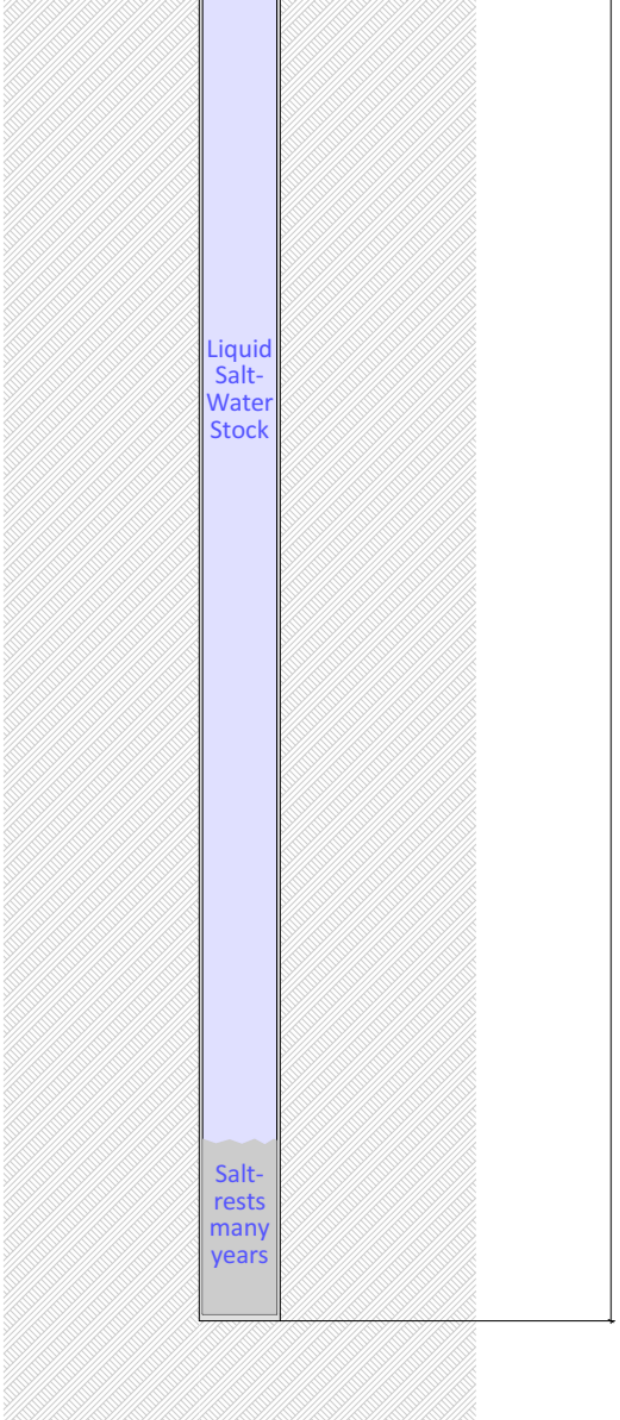
750 Meter recommended for big size facility (SBR)

possible





This is basic "**Water - Electrolysis**" in industrial scales, to cover worldwide Hydrogen needs.



Until now most Hydrogen is produced from so called natural gas. - There is no "Pots" or "Vessels" for big scale hydrogen producton by water-electrolysis yet.

The H2 production location described in this draft plan is a shaft - a deep shaft Diameter 12 Meters - the hole has to be drilled with SBR drill tech from Herrenknecht.

The Anodes and Cathodes can be the metal you think is best - The Anodes and Cathodes can be changed by Hand- and Cranework. It is an "easy to use" H2 Shaft.

The Lid is the same as developed for the Methanol Shaft. It is a gas-tight lid - the most expensive single part of this building project. Project sizes 30 MW, 700 MW, 1.600 MW

In north Germany there is massive off-shore windparks with a capacity of max. 7.350 MW behind it. We use the night wind current nobody buy and buffer it in Hydrogen.

Best use for the Hydrogen-Shaft is next to the Methanol Shaft because the valuable Methanol needs H2 and CO2 They are mixed (Synthesis) in a hot, pressure shaft nearby.

That is basically the german idea of an energy system with a very small CO2 foodprint. Buy licenses for the Hydrogen and for the Methanol-Shaft.

MfG - Ing. Goebel

PEM-Elektrolyseur viel zu klein

Revision History

RevID	ChID	Change Name	Date

Companies

Ing. Goebel

Draft Plan Water-Electrolysis

H2 Cluster Heide
Germany

Drawing Name
Hydrogen-Production-Shaft

Drawing Status
Draft plan with implementation elements (Final Version)

Plan from
Ing. Goebel

Date :
29.12.2020

Drawing Scale
1:50 and 1:500

Layout ID