

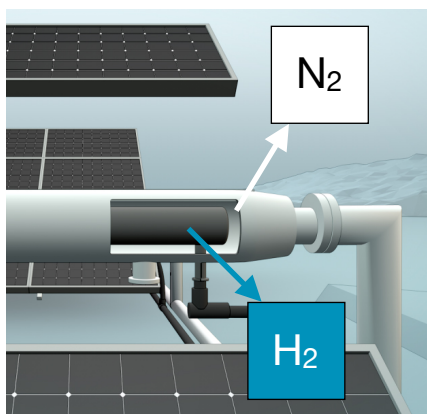
DUALSOLAR COMPONENTS

SOLAR PANEL SUPPORT STRUCTURE

Number of dCPV:	1 per row of panels ⁽¹⁾
Solar panel row:	100 meter
Diameter of dCPV:	0.3 meter
Operating pressure:	200 bar
Total Hydrogen storage/row:	60 kg
Total Nitrogen storage/row:	270 kg

⁽¹⁾ row has 236 panels of 1 x 1.7 meter

1 kg NH₃ = 0.82 kg N₂ + 0.18 kg H₂



dCPV = duplex Constructive Pressure Vessel

Patents granted and/or pending.

Third party components

Solar Panels

Considering an average P_{max} of 260 W per 60 cell PV panel and considering they are installed per 4 heigh, than a **hectare** would produce +/- 800 kWh which is an equivalent of **170 kg H₂ per day** (12 hours)

Hydrolyser, Air separation units, DI water

Today's commercial hydrolyser range from 0.5 to about 1.5 MW. There are various producers e.g. Hydrogenics, NEL, ITM, Thyssen ...

Air separation to produce Nitrogen gas, proven technology, various produces and technologies.

DI water production: ca. 1000 liters

Either individual DI Water unit per PV field or larger DI Water units that feeds clusters of PV fields.