ELECTROLYSER

KOH FILTER AND CIRCULATING PUMP WITH COOLER

H₂/O SEPARATOR

GAS / LIQUID **SEPARATOR**

 H_2/O

filtering of

Separation of

Separation of

WATER TREATMENT

modification of input technological water for process of H₂O

COOLING WATER CONTROL SYSTEM SYSTEM

control and monitoring of process based

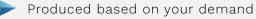
cooling of process of electrolysis H₂ and pressurized

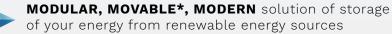


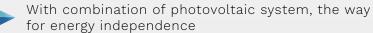


H2 PRODUCTION PLANT

Alkaline /PEM electrolysis method











- ► HPU Hydrogen Power Unit
- Standardized size range
- Pressure **electrolyser** output 30 bar
- **DC Power consumption** 4.6 kW/ 1 Nm³
- H₂ purity 99.99% (after cleaning/drying)



H₂ PRODUCTION				H₂ DISTRIBUTION	
ALKALINE ELECTROLYSER		PEM ELECTROLYSER		COMPRESSOR / STORAGE / REFUELLING STATION	
SMALL (Containerized)	PLANT (Modular)	SMALL (Containerized)	PLANT (Modular)	LARGE (Containerized)	SMALL (Modular)
5 – 100 Nm³/h	100 – 2000 Nm³/h	1 – 100 Nm³/h	100 – 400 Nm³/h	200-1000 kg/day	20-100 kg/day
25 - 500 Nm³/h	0.5 - 10 MW	5 - 500 KW	0.5 – 2 MW	1.5 – 45 - 85 MPa	1.5 – 45 MPa

<i>f</i> 1.	"Grid" electricity
7 2.	"Green" electricity
3.	HPU heat/ Factory process gases
0 4.	HPU oxygen/ Factory process gases
H ₂ 5.	Hydrogen
6.	Heat
4 7.	Fuel Cell/ electricity and heating unit

