

SEED CAPITAL DEAL



- ▶ Separation of high purity hydrogen (100%) from gas mixtures
- ▶ Extremely high hydrogen recovery rate
- ▶ Small space requirements
- ▶ Low installation costs
- ▶ Highly efficient
- ▶ Big earning potential

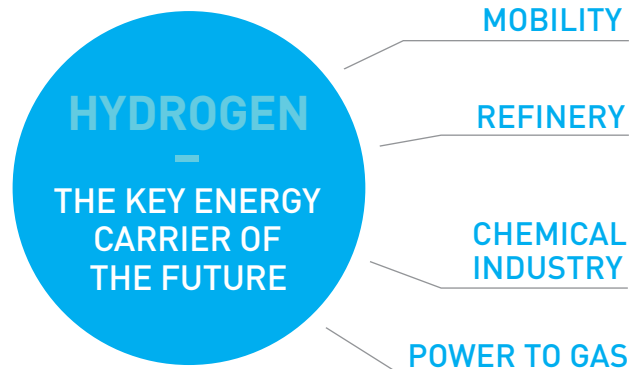
The **Ferro-Hy-Tunnel (FHT)** System for the separation of high-purity hydrogen from gas mixtures solves the problems of conventional hydrogen separation procedures. It yields purer hydrogen results, requires less time, is less costly and energy-intensive than any comparable system on the market.

FHT SYSTEM ADVANTAGES

- ▶ FHT guarantees a hydrogen purity-rate of 100%
- ▶ FHT uses up to 95% less energy than comparable systems
- ▶ FHT is up to 35 faster than other technologies
- ▶ FHT is installable in any kind of location

THE ADVANTAGED OF FHT IN COMPARISON TO PSA

- ▶ A FHT plant costs only about 11% (€22 million) of a PSA plant (€200 million)
- ▶ FHT enables a hydrogen recovery rate of 95%, compared to PSAs 73%
- ▶ FHT facilities require only 3% of the space required by the PSA method



	PSA	FHT
MAXIMUM LEVEL OF PURITY	99,99925%	100%
OUTPUT PER CYCLE	73%	95%
NUMBER OF CYCLES	36	1
MAXIMUM PROCESS TEMPERATURE	200°C	15°C
PROCESS PRESSURE IN RELATION	100	75
POWER DEMAND IN RELATION	100	5
ENERGETIC EFFECTIVENESS IN RELATION	10	100
FACILITY VOLUME IN RELATION	100	3
NUMBER OF MOVING PARTS IN FACILITY IN RELATION	100	1
COSTS FOR MEMBRANE MATERIAL IN RELATION	100	10
REGENERATION PROCESSES IN RELATION	100	1

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