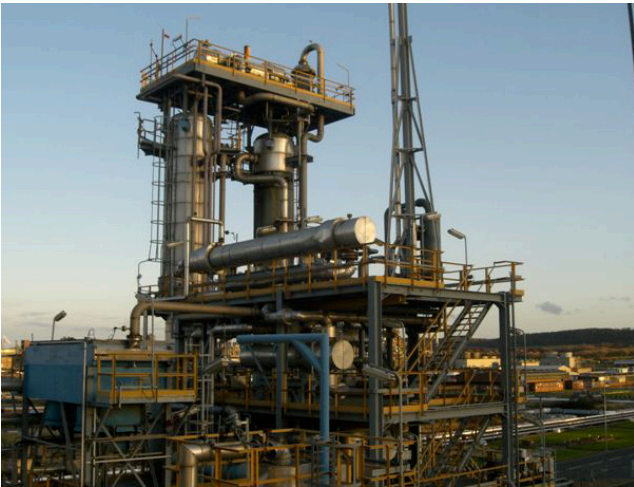


# 17mm SCFD Hydrogen Plant For Sale

Plant Start Up: 1998

Plant Shut Down: 2009



The plant was shut down according to safety and environmental procedures.

N<sub>2</sub> purge has been maintained on the equipment and catalysts.

**Plant Capacity (Nm<sup>3</sup>/y):**

H<sub>2</sub> = 15,330 MT/year (42 MT/day)

CO<sub>2</sub> = 70000 MT/year Potential

Export Steam = 218,000 MT/year

Feedstock: Natural Gas; Steam



**List of Equipment:**

Hydro-Desulphurization

(1 reactor 2 different catalyst beds)

Feed Product Compression

2 Thomassen multi service compressors, with closed loop water system and oil system

Steam Methane Reformer[SMR]

Combustion section

Convection section ( with 5 cooling coils )

Induced Draft Fan with guide vane control

Press. Inlet = 22 bar

Temp. Inlet = 600 deg. C

Press. Out = 19 bar

Temp. Out = 800-880 deg. C

Ratio steam/feed

3.0 at max capacity

3.2 at min capacity

Refractory

Ceramic fiber brick

35 top fired low NO<sub>x</sub> burners

NO<sub>x</sub> in flue gas under 150 ppmv (150 mg/m<sup>3</sup>)

CO<sub>2</sub> removal (MDEA plant)

Absorber column

HP flash column

LP flash column

Knock out pot

1 air cooler

1 Heater

1 cooler

2 Pumps

Tank storage

Solvent – MDEA 03solution

Steam system

1 waste heat boiler

1 Degasifier

1 Steam boiler

1 Dosing system

2 pumps

2 heat exchangers

2 Convection coils

(in convection section of reformer)

H<sub>2</sub> purification

6 bed PSA system

1 surge tank

to provide waste gases

dcen'iq'UO T'cu'hwgn



**FOR ANY ADDITIONAL INFORMATION PLEASE CONTACT:**

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