

PROFORMA INVOICE Phase 1 Solar Farm h2 Kit

INVOICE NBR: DP-14-0807890

DATE: 2016-May 15

IMPORTER & BUYER:

Delivery : Industrial Community Hydrogen Fuel Plant

Solar Farm Hydrogen Project Kit

PHASE 1 OFFER

Production and Compression Mother Site

TERMS OF PAYMENT: Singapore or Thailand

Singapore

Standard Chartered Bank

Account TBA TT Upon Acceptance

By account:

TT Bank Transfer

Bank of Ayudhya: Branch of Central Phuket
Central Festival Shopping Centre Phuket 83000
TEL : 076 367 005-6

Account Name:

Mr. Daniel Thomas Donatelli
ACCOUNT NUMBER: 465 -1 -030 879
SWIFT CODE: AYUDTHBKXXX
Mb 083 647 3443

TERMS OF PAYMENT: WU or T/T IN
ADVANCE

DESTINATION AIR PORT: TBA

Pay Pal danieldonatelli1@gmail.com

TOTAL QUANTITY:1
TOTAL NET WEIGHT: 3400kg aprox

MARKS/NUMBER:
Secure Supplies H 234

MANUFACTURER: Secure Supplies Contractor

The Lead time on this Supply offer is 120 days aprox and 30 days shipping we will do sgs and shipping schedule around 60 -90 days mark.

EXPORTER: Daniel Donatelli

Handling Distributor Secure Supplies Limited

Tel: Mb + 66 83 647 3443

Fax: via Email

MATERIAL

Secure Supplies Fueling Healthy Communities

www.securesupplies.biz

Mb + 66 83 647 3443

danieldonatelli1@gmail.com

QTY	WEIGHT	Equipment being supplied in this order	UNIT FOB PRICE USD	TOTAL CIF AMOUNT USD
1		100 nm3/hr pure hydrogen electrolyzer 15 bar operation pressure 520 kw dc power in. Makes and Store energy has h2 gas all internal accessories and parts. Transformer etc	1,480,000	1,480,000
		24 hr Operations Prime Power Production 6 hr from solar 18 hr from mains power. Unit With Load Warranty 2- 5 years		
		Will be Shipped By Sea costs included excludes thai import tax and duty.	Included	
		Full Spec Please See Brochure Attached		
		We Will include Carbon fiber tank trailer 10 foot Trailer as the tanks example , as shown attached . and fitting for local gas grid for demo testing equipment.		
		Inlet fittings and Battery fittings Starter		
		Safety Equipment Basic included		
		Civil Design, drafting and engineering designs consultation plans costs included from Daniel. Engineers for consultation for operational commission of equipment install included for 30 days.		
		Container Sound Case included. SGS TUV inspection Included 60 day mark.		
TOTAL: USD\$1,480,000 by Sea shipping				1,480,000

Secure Supplies

Terms are

Step 1 **\$600,000 Build Deposit**

50% Deposit tt to Daniel Donatelli

Step 2

At 60day Mark we provide a sgs Tuv
inspection of equipment prep and update along
with ship booking and load dates

We provide shipping price and final balance
(50% + shipping cost)

Step 3

Balance 50% and shipping is paid prior to
loading and then, all documents for supporting
import are supported. 150 – 180 days
Delivery time line



Options can be added as indicated on
Brochure. Clients Land prep mains power
water and extra Civil works fence lighting
etc water electrical extend across land to
pad or equipment not included.

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Production and Compression Mother Site

SOLAR FARM

Phase 1

Hydrogen product kit

Offer

100Nm³/H x 1 Pc 40 FCL
SOLAR FARM HYDROGEN CONVERSION
Technical Proposal Sheet
100Hm³/h Electrolyzer Unit in 40 FCL

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Dated May 15 th 2016

This Offer and Invoice

1 Deploy Solar to Hydrogen Production Kit to Solar Farm Site to a prepared land area.

Goal of this Contract

- Value add solar farm to make a new gas product working site.
- Make gas product ready to distribute to trucks/gas grid.
- Make a Stage 1 operational to make product /train staff.
- Establish this Training site for emergency and fire to learn.
- Establish and grow safety and Safety Culture at site for fuel cell safety also stationary and vehicle.
- Make this site a test bed mini gas grid to demo site also other equipment (hydrogen fueled engine, fuel cell , burners etc and train country staff.
- Include a trailer fill and car filling dispenser as shown in pic 2.

The Civil Land Area of the SOLAR FARM
will be Prepared IN ADVANCE OF EQUIPMENT ARRIVAL
by the Solar Farm Company to a civil design by Secure Supplies
And Consultancy for install with be by Secure Supplies.

Proposed Goal is design of land area allocated at Each Solar Farm Mother site
Converted to make gas as Phase 1 and improve it each time to lead market.

Training Audiences who benefit from First Install site





Trailer Tank Storage
External Compressor
Fuel Maker
Transformer
Monitoring
Filler Bowser
Rapid fill cooler not shown

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Site Phase 1 install in this quotation will be established with basic 10 foot trailer. Phase 1

Hydrogen production storage

Secure Supplies Component overview



Store to mobile trailers, than distribute for sale and use



Start Delivering your Hydrogen
To Dispensing Sales Sites or Client use points

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Offer Excludes not include costs for land preparations, water power lights fence cameras
Reinforced grounded cement pad etc not included in price as part of civil site prep.
Ahead of equipment install to a plan provided by Daniel Donatelli

Hydrogen production storage Phase 1

Secure Supplies

Time Line 2016 -2018 Phase 1

Deploy Solar to Gas Production Site

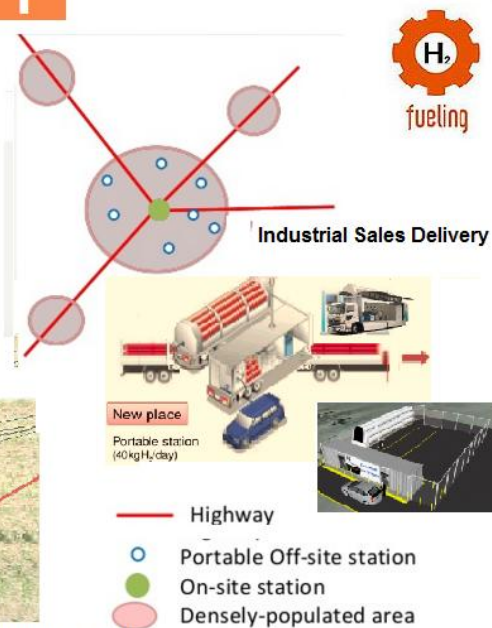
Start Industrial Gas Sales

Start Mobile Gas Sales to Electric car charging sites

Retail sale none until licensed site



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Phase 1 Mother Site Production Compression is Supplied Operational and complete.2016

Operational at Solar site it will to allow for this plan we than plans Stage 2 & 3

Stage 2 Expand to Handle Large Gas truck filling at Mother station

Stage 3 Build receiving daughter stations and fuel cell power sites Servers Trains etc

Virtual Hydrogen Pipeline - How it Works

Build Steps



Typical Industrial Consumer Hydrogen Production & Storage

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Phase 1 Technical Offer info

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Basic Core Equipment List Phase 1 Order

- 40 foot Electrolyzer 100 nm³/hr at 520 kw dc 15 bar pressure
 - 10 foot Tank Foot Hydrogen distribution trailer
 - Engineering and design civil and onsite start up of equipment
 - Dispenser for Oxygen
 - Dispenser for Hydrogen to suit fuel cell Vehicles and tanks
 - Gas Grid fittings
 - Transformer
 - Engineers for the Equipment to over startup and basic training.
 - Civil design and Mother site engineering survey designs
 - Start gas or chemicals required .
 - Basic Gas grid Fittings including basic safety systems
 - Bonus Items advised on delivery and install
 - Training and Support and Warranty.
 - Water Ionizing kit
 - Pressure controllers
 - Power panels on the unit
 - Breakers and controllers on the unit
 - Engineers to consult 30 days/ after \$200 per day
 - if non warranty or service
 - Certifications by sgs Tuv prior to install
 - Service schedule is 1 time a year 5 days.
 - Intrim onsite staff service 30- 60 days
 - External Compressor is a option, not included as Unit does 15 bar
 - enough for tanks and trailer phase one stage as extra
 - compressor may not be required.700-900 Psi
- As if we expand latter to Phase 2 a bigger compressor unit for large truck filling will be added to do 3000 psi .

1. Brief Introduction

1.1 Main parameter

Main parameters of the Hydrogen generator:

Equipment Model	
Rated hydrogen output, Nm ³ /h	100
Rated oxygen output, Nm ³ /h	50
Hydrogen purity(after purification)	>99% (v/v)
Dew point of Hydrogen	-60°C
Oxygen purity(after purification)	>99% (v/v)
Dew point of Oxygen	-60°C
Working pressure, Mpa	1.6
Outputting pressure, Mpa	0.1~0.4
Rated consumption of electricity, KWh/m ³ H ₂ (DC)	≤5.2
Operation model	Continuous running

1.2 Interfaces

1.2.1 Electricity

Owner shall connect electricity to the Seller's plant power cabinet.

1.2.2 Water

Owner shall connect demineralized water and cooling water to the Seller's system.

1.2.3 Instrument air

Owner shall connect instrument air to the Seller's equipment.

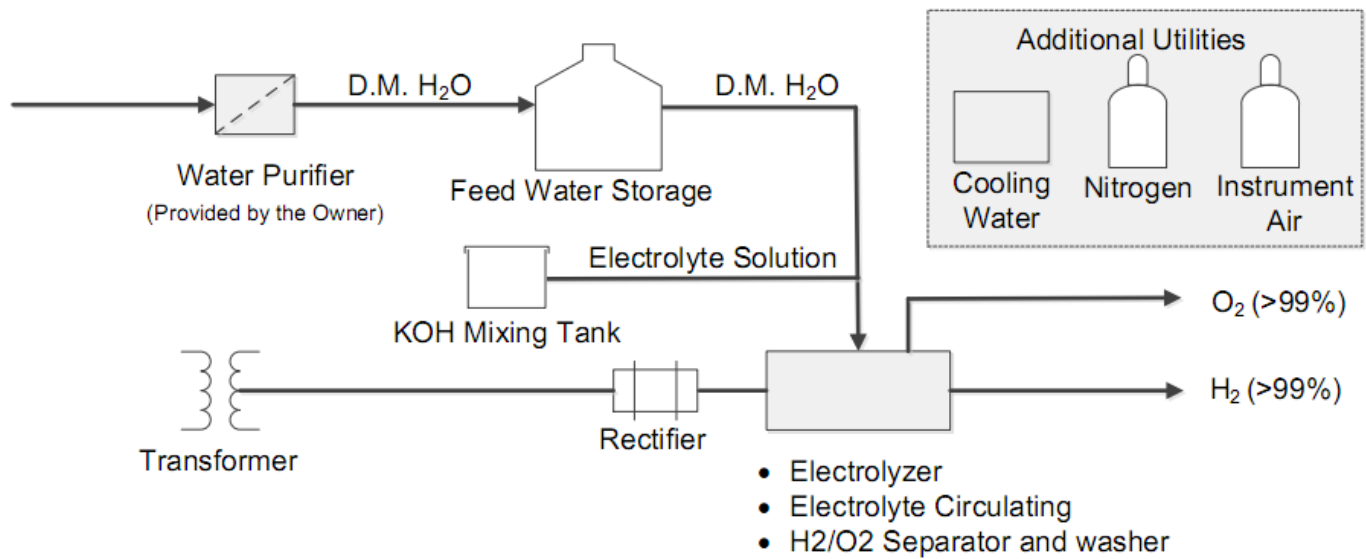
1.2.4 Nitrogen

Owner shall connect nitrogen (for purging) to the Seller's system.

2. Process description

The demineralized water runs into the demineralized water tank through pipes, and then enters into hydrogen (oxygen) washer by feed water pump and then flow through lye pump and lye filter. Finally enters into the electrolyzer. In the electrolyzer, DM water is continuously electrolyzed into hydrogen and oxygen at different sides. Hydrogen and oxygen generated are separately delivered to lye cooler (H₂ cooling and O₂ cooler) → H₂(O₂) separator → hydrogen (oxygen) washer → gas-liquid separator. Separated oxygen will be discharged to atmosphere via regulating valve. Separated hydrogen will be delivered to hydrogen purification system (including deoxidizer and dryer).

2.1 Process flow diagram



2.2 Control system

2.2.1 PLC

The whole hydrogen generating system can be running automatically with PLC. The control system is multi-functioned, including automatically stop, monitoring, control, alarm, interlock and etc. The control system also have manual control mode. If the auto-control module is malfunctioned, H₂ generating system maybe smoothly control by manual mode.

2.2.2 Control loop and parameter of hydrogen generating system

I. Pressure control system

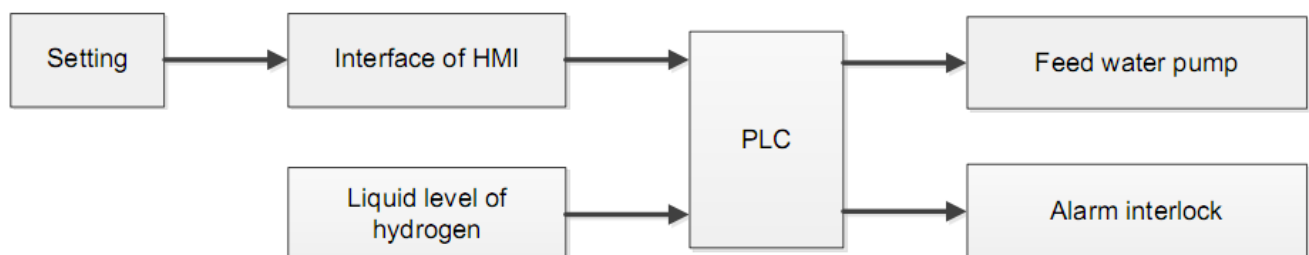
Pressure transmitter in the oxygen separator collects signal of oxygen pressure. Then the pressure transmitter turns the signals into 4-20mA current and then sent to PLC. After comparing with the set data and PID calculating, PLC transmits electric signals to convertor to general 0.02-0.1Mpa pneumatic signal, and then controls the opening of pneumatic diaphragm regulating valve on oxygen side to keep the system pressure at balanced.

II. Liquid level control system

a. Liquid level control on hydrogen separator

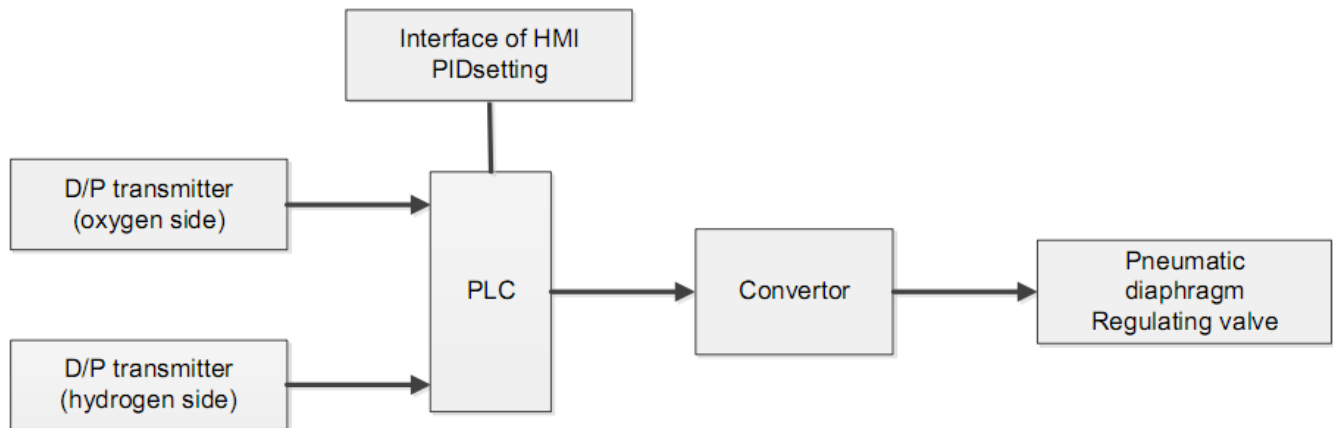
During the electrolysis, the demineralized water is consumed, and the liquid level in hydrogen (oxygen)separator comes down. To keep the system works normally the demineralized water must be made up.

D/P on hydrogen side measures the liquid level and then generates 4-20mA current to PLC. By comparing with the set value of maximum alarming liquid level, minimum alarming liquid level and interlock, PLC sends outputs signals to water feeding water by interlock control. Values of maximum alarming liquid level, minimum alarming liquid level and interlock can be set in HMI.



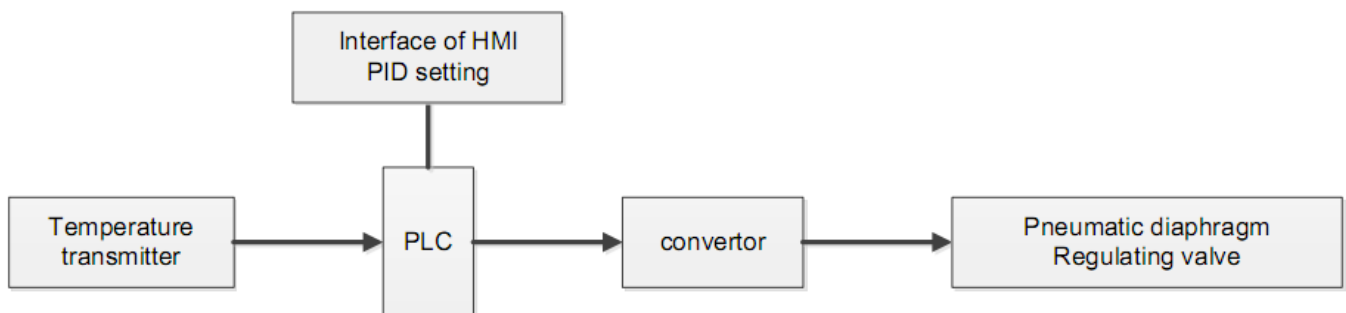
b. Differential pressure control at hydrogen and oxygen sides

To keep the pressure of hydrogen side and oxygen side balanced is the function of this system. The signals in 4-20mA on both sides are sent to PLC by D/P transmitters on hydrogen separator and oxygen separator.



III. Temperature control system

The working temperature in electrolyzer is a very important factor for the whole hydrogen generating system. Temperature in electrolyzer is controlled by adjusting the temperature of lye solution. The signals are sent to PLC by temperature transmitter on oxygen separator. Then After comparing with the set data and PID calculating, The results are sent to electric-pneumatic convertor to become pneumatic signals of 0.02-0.1Mpa. The pneumatic diaphragm regulating valve on cooling water pipeline is regulated to control the temperature of lye solution.



IV. Important points in hydrogen production process

- (1) System pressure
- (2) Liquid level at oxygen side
- (3) Liquid level at hydrogen side
- (4) Temperature of lye solution
- (5) Differential pressure on hydrogen (oxygen) side
- (6) Temperature in electrolyzer at oxygen side
- (7) Temperature of electrolyzer at hydrogen side
- (8) Circulating quantity of lye solution
- (9) Oxygen content in hydrogen
- (10) Hydrogen content in oxygen
- (11) Current of rectifier

For the operating in safe, reliable and stable conditions, an alarm and interlock system has been set up to monitor the system's running status, detailed parameters which might cause alarm and interlock are shown as follows:

S/N	Monitored Parameter	Alarm action		Interlock action	
		L-limit	H-limit	LL-limit	HH-limit
1	Operating pressure of H ₂ generator		Yes		Yes
2	Operating temperature of H ₂ generator		Yes		Yes
3	Lye flow rate	Yes		Yes	
4	H ₂ -level in H ₂ separator ¹	Yes	Yes	Yes	Yes
5	O ₂ -level in O ₂ separator ²	Yes	Yes	Yes	Yes
6	Trace O ₂ content in product H ₂	Yes		Yes	
7	Operating pressure of cooling water	Yes		Yes	
8	operating pressure of instrument air source				
9	Rectifier fault ³				

Note:

^{1, 2} *H2-Level in H2 separator and O2-level in O2 separator, they're to monitor the water level in H2 separator (O2 separator). It's to control the balance of the system.*

^{3.} *Rectifier fault is the malfunction alarm of rectifier cabinet, including over-current protection, over-voltage protection, missing phase protection, fuse protection, outer loop load protection, power off safety protection, emergency stop circuit protection and etc.*

V. PLC

PLC is provided by SIEMENS (Germany).

2.2.3 Process Control Parameters

I. AI

S/N	Parameter	Equipment
1	Lye temperature	Hydrogen generating system
2	Temperature at hydrogen side	Hydrogen generating system
3	Temperature at oxygen side	Hydrogen generating system
4	Pressure of hydrogen generating system	Hydrogen generating system
5	Pressure difference at hydrogen side	Hydrogen generating system
6	Pressure difference at oxygen side	Hydrogen generating system
7	Flow rate of lye	Hydrogen generating system
8	Oxygen content in hydrogen	Hydrogen generating system
9	Hydrogen content in oxygen	Hydrogen generating system
10	Electrolysis current	Rectifier panel
11	Electrolysis voltage	Rectifier panel
12	Water level of D.M.W. tank	D.M.W. tank

II. AO

S/N	Parameter	Equipment
1	Control of cooling water control valve	Hydrogen generating system
2	Control of regulating valve at oxygen side	Hydrogen generating system
3	Control of regulating valve at hydrogen side	Hydrogen generating system
4	Control of rectify voltage	Rectifier panel

III. DI

S/N	Parameter	Equipment
1	System start-up	Control panel

S/N	Parameter	Equipment
2	System stop	Control panel
3	Muffle	Control panel
4	Gas pressure (Low level limit)	Control panel
5	Oxygen side pressure (High level limit)	Hydrogen generating system
6	Hydrogen side pressure (High level limit)	Hydrogen generating system
7	Rectifier fault	Rectifier panel
8	Rectifier panel status	Rectifier panel
9	Hydrogen monitor interlock	Control panel

IV. DO

S/N	Parameter	Equipment
1	System operating light	Control panel
2	System alarm light	Control panel
3	System alarm buzzer	Control panel
4	Interlock of rectifier panel	Rectifier panel
5	Stop/start of rectifier panel	Rectifier panel
6	Block of rectifier panel	Rectifier panel
7	Start of oxygen in hydrogen instrument	Hydrogen generating system
8	Start of hydrogen in oxygen instrument	Hydrogen generating system
9	Lye pump I	Hydrogen generating system
10	Lye pump II	Hydrogen generating system
11	Hydrogen vent	Hydrogen generating system

Note: Value of above listed control parameters will be provided after the contract being effective.

2.3 Design Basis

Design code for hydrogen station	GB50177-2005
Water electrolysis hydrogen generating equipment	JB/T5903-96
Quality Classification of Water Electrolysis Hydrogen Generator	JB/TQ584-87

Technical safety regulation for gaseous hydrogen use	GB4962-2008
Oxygen for industrial use	GB 3863-2008
Oxygen for industrial use	GB/T 3634.1-2006
Design code for industrial metallic piping	GB50316-2000
Standard for building fire-fighting	GBJ16-2001
General code for construction and acceptance of mechanical equipment and installation engineering	GB50231
Code for construction and acceptance of industrial metallic piping	GB50235
Code for construction and acceptance of field equipment, industrial pipe welding engineering	GB50236-98
Steel pressure vessel	GB150-1998
Technical requirements for fabrication of steel chemical vessels	HG20584-1998
Specification of water electrolyte system for producing hydrogen	GB/T 19774-2005

Special Note we will Configure to Match Advised Local Voltages.

3. Utilities

3.1 Electricity

S/N	Frequency	Voltage	Remark
1	60Hz	380V/220V	Three phases, Four wires

3.2 D.M. water

Parameter	Value
Conductivity(25 °C)	≤ 0.2μs/cm
Pressure (Mpa)	0.2

3.3 Industrial cooling water

Parameter	Value
Cooling water pressure, Mpa	0.3-0.4

Parameter	Value
Temperature of cooling water supplied, °C	≤32
Hardness, °DH	< 4
Flow rate (MT/hr)	5

3.4 Specification for KOH solution

Parameter	Value
KOH purity	30% solution

Further Specification will be Provided here for KOH

3.5 Instrumentation Air

Quality	Value
Oil content, mg/m ³	< 5
Dust particle, µm	< 20
Dew point	At least 10°C lower than ambient temperature
Pressure(Mpa)	0.4-0.65

3.6 Nitrogen gas

Nitrogen gas shall be supplied for start-up, and purging process of the equipment.

Quality	Value
Purity (N2)	≥99.9% (v/v)
Dew point	≤ -10°C
Pressure	≥0.6Mpa

4. Equipment list

4.1 Equipment list is shown as below table

S/N	Equipment	Quantity	Specification	Remark
1.	Hydrogen generator	1		
1.1	Electrolyzer	1	100-01	
1.2	Gas water separator (H2 & O2 side)	2	100-02	
1.3	Lye filter	1	100-03	
1.4	Gas cooler	2	100-04	
1.5	Lye circulating pump	2	B32	One operating, one standby
1.6	Lye tank	1	219L	
1.7	D.M. water tank	1	219L	
1.8	D.M.W. pump	2	1200	One operating, one standby

Continued Next Page

1.9	Hydrogen dryer	3	Z100-02
1.10	Regeneration cooler	3	Z100-03
1.11	Hydrogen filter	1	Z100-04
1.12	Flame arrester	2	25
2	Instrument		
2.1	Pressure transmitter	1	JA
2.2	D/P transmitter	2	JA
2.3	Temperature transmitter	3	T100
2.4	Pneumatic diaphragm control valve	2	MBY
2.5	Bimetallic thermometer	2	SS-401
2.6	Flow meter	1	ZD
2.7	Level meter	2	HC

12 / 14

S/N	Equipment	Quantity	Specification	Remark
2.8	Trace oxygen analyzer	1	FY-II	
2.9	Trace hydrogen analyzer	1	FY-3	
2.10	Dew point meter	1	HAW	
2.11	Hydrogen leakage alarm	1		
3	Control System			
3.1	PLC	1	Siemens	S7
3.2	HMI	1		
4	Electric System			
4.1	Control cabinet	1	GD	
4.2	Rectifier cabinet	1	GHS	

Note: The whole system is skid-mounted in a 40 feet container.

4.2 Technical warranty of main equipment

Equipment	Warranty	Seller
Electrolyzer	5 years	Factory Warranty
Others	1 year	Factory Warranty

4.3 Maintenance

Regular maintenance is suggested to be done every 4-6 months. We shall stop the hydrogen generating system, inspect the system. The maintenance usually costs 3-8 hours and has no influence on the continuous operation of the plant.

scope of work is listed as below:

5.Scope of work

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S/N	Description	Remark
I	Engineering	

1	Plant layout design	
2	Process and mechanical design of equipment	
3	Piping & Instrumentation Design	
4	Design of electrical and control system	
5	Equipment load data (for civil work engineering)	<i>Civil work engineering is to be done by the Buyer.</i>
II	Supply of Equipment and Material within Battery Limit	
III	Project Planning and Management	
IV	Supervision and Training of Buyer's staff	<i>Supervision covers installation, commissioning, and start-up.</i>

**Thank you for Selecting Secure Supplies
Fueling Healthy Communities**

**This Unit is Ideal for Placing At Solar Farm Mothers sites
as 2 Mw up Solar Sites to make Gas to Grid**

**We can Put multiple unit in over time 10 unit 20 unit etc to increase fuel production
First 1 pc unit uses only 520 kw dc/hr to make 100nm³/hr at 15 bar of Hydrogen Gas**

So 10 Units could make 1000nm³ per hr at 15 bar at 5.2 kw dc if we expand latter

**Application for local mini pipeline grid at 0.4mpa
Or to Mobile Pipeline truck 3000psi**

**To deliver to back up power sites Hydrogen fuel electric generators to or, fuel cells to drive
water pumps and rapid car chargers gsm towers builders servers trains etc**

**The Line loss is 1-2% for gas line when compared to electricity line loss 12%
Gas pipe are low cost and fast to deploy for power.**

Sale of Gas can occur Current Euro price is \$11 per 1 Nm³



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The Mother Station will go in Above picture as a new product to raise ROI and Value of the Solar Farm.

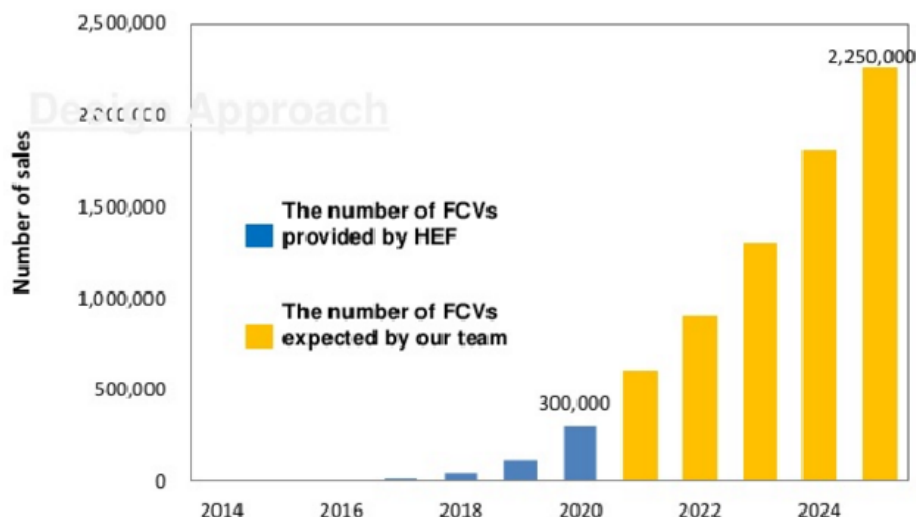
Demand is Expected to Grow greatly in the country Due to factories starting to build Fuel Cell Vehicles

Example of Deployment Phase Planning



Number of FCV Forecast

This chart does not include machinery that has electric / fuel cell conversions and would be additional consumption.



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Example of Deployment Phase Planning



Hydrogen Gas Grids from Production or local delivery site, can fuel short or long, local gas grids that run fuel cell charging stations for electric cars or machines. Thus taking burden of electric grid and aging transformers.



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Phase 2& 3 Example Daughter Sites

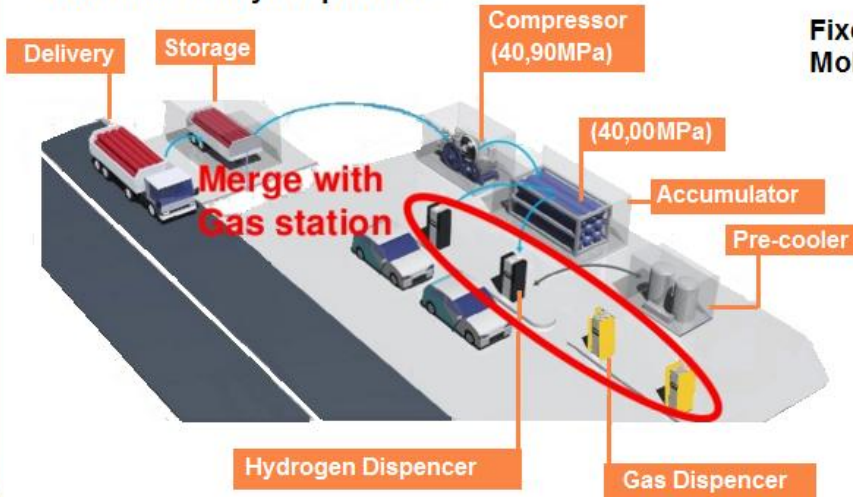
Off -site station (400 kg/h₂ per day)

Secure Supplies Merge with Gas Stations

Convenient for drivers
Rapid Deployment
Fast Fills
Lower investment for distribution
Own access to your product



Fixed Deployment Cost 2.7 million
Mobile Deployment cost 1.2 million

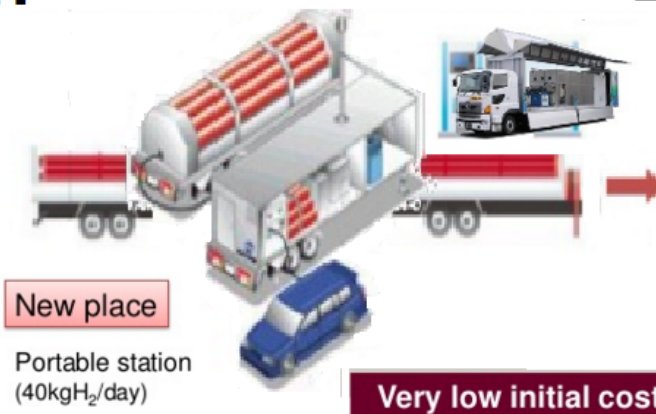


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Modular off-site station

1. Mobile delivery



Get product from your Solar Farm to Market Fast
Get Fast Market Coverage
Provide Service to consumers
Move to meet demands easily

Price Storage Trailer \$280,000
Price Fill Truck \$450,000

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2. Than Fixed Stations

Gas station

Off-site station (800 kgH₂/day)

Moving to fixed
Rapid Faster fills
Coolers
Compressor
Storage
Bowser

Price Aprox \$700,000



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Daughter Site and Logistics Expand examples to raise gas sales and ROI for Solar farm mother site investors.

Hydrogen production storage Phase 2

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Time Line 2018- 2025 Phase 2

More urban people in densely-populated area



Massive infrastructure especially in densely-populated area

- Arrange more off-site stations densely
- Move portable stations to the hydrogen developing area
- Develop on-site stations to surround off-site stations

95 % urban people can access within 15min

Strong Co2 Reduction on industrial fixed engines



- Do Gas grid Demo to fuel cells in parking garages
- Gather stations in densely-populated area
- Use portable station

— Highway
○ Portable Off-site station
● On-site station
● Densely-populated area



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Hydrogen production storage Phase 3

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Time Line 2020- 2025 Phase 3

Various people



Infrastructure in broad area

- More hydrogen stations
- Expand existing stations modularly
- Plants cover hydrogen demand

Almost 100 % Megalopolis people can access within 5min

CO2 Greatly Reduced

— Highway
○ Portable Off-site station
● Off-site station
● Large off-site station
● On-site station
■ Hydrogen production plant
● Densely-populated area
● 2nd densely-populated area

Expansion of Gas Grids to Fixed Engines sites water pumps, Generators Fuel Cells and Industry.



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Mother Sites can Start National Fuel Cell and Hydrogen knowledge and safety training to prepare emergency and fire for the new fleets of fuel cell vehicle 2018 to 2025 years

Training Audiences who benefit from First Install site

- ❖ Instructors (Train-the-Trainer)
- ❖ Pre-service and In-service Technicians
- ❖ Fleet Managers
- ❖ Government and Industry Representatives
- ❖ First Responders
- ❖ Students
- ❖ Consumers
- ❖ Others



**Together we build
the Industry Culture,
care and servicing.**

**Understanding ,respecting and
caring for the technology.**

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Gas Can be delivered to Clients Like

Server Back rooms, building back up power fuel cells Train station back up power fuel cells, Gsm Tower Back Up power Fuel cells. And Industry users. Gems , Chip manufacturers etc.

Hydrogen production storage

Secure Supplies Component overview



Distribute Hydrogen to Buildings
and or Make it on site for sale.



Start Delivering your Hydrogen
To Dispensing Sales Sites or Client use points

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Hydrogen production storage

Secure Supplies Component overview



Delivery Your Gas to Corporate Fleet
Fill Sites
Fuel Cell Vehicles Trucks Forklifts
Robots Drones and Industry lines

Start Delivering your Hydrogen
To Dispensing Sales Sites or Client use points

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