

## DOCKETED

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<b>Project Title:</b>	Renewable Hydrogen Transportation Fuel Production
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<b>Document Title:</b>	Jack Mosel Comments: 2017 project interest for Renewable / Grid Energy Generated Hydrogen
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*Comment Received From: Jack Mosel*

*Submitted On: 1/23/2017*

*Docket Number: 17-HYD-01*

## **2017 project interest for Renewable / Grid Energy Generated Hydrogen**

The following documentation shall provide an ample understanding for our desire as well as ability to be included in California's Green Hydrogen and Grid-Tied Hydrogen production / delivery / supply infrastructure. We have real estate assets in Salton Sea also, in which we intend to create a mutiple MegaWatt Solar Array and/or Geothermal site on this parcel to produce Green Hydrogen for the California Fuel Cell Refueling / Distribution marketplace.

our website is [www.securesupplyusa.com](http://www.securesupplyusa.com)

*Additional submitted attachment is included below.*



***MW Class Renewable Energy to Hydrogen gas production for Energy Storage & H2 Fueled I.C. Engine Generator's to provide Prime Power electrical generation. A Carbon-Free turn-key proposal for a Secure Energy Supply for the USA...***

General Prospectus:

The alternative energy industry inclusive of solar farms, can be configured / retrofitted to adapt to an evolution model for heralding a paradigmatic shift to incorporate efficiency and sustainability through carbon-free energy production. Inclusive of this new alternative energy model we are offering will be to address storage of PV array energy, through utilizing Hydrogen as an energy carrier. We shall demonstrate specifically how the production of Hydrogen gas can be derived through Solar Array and to be stored, pressurized and delivered to specialized H2 Engines for the purpose of electricity generation.

We employ solar energy and store the energy as a new carbon-free / high density Hydrogen gas product. This becomes a fuel gas (as an energy carrier) ready for immediate use in a variety of gas to power solutions including Fuel Cell or H2 combustion engines as Prime Power electrical generators. This creates a new ROI and retail/wholesale energy as well as storage alternatives for emergent revenue streams.

The global energy industry is positioned attractively as of late, to embrace significant benefits for promoting a Hydrogen production economy. As it deregulates and is currently deploying ways to produce energy which produce a zero carbon emission, investing and deploying an infrastructure to support this paradigm shift is vital for us all.

There are very few alternative / efficient energy storage options that allow for distribution of Alternative Energy to meet all industries needs universally. From day one of site deployment, Hydrogen is one of the only energy carrier / energy storage product's which can do that with zero carbon emission's pollution or footprint from its production through

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our Green Hydrogen production model. There is zero residual harmful or toxic chemicals in any form had from discharge of our model.

Toyota, Honda, BMW, Volvo, Mercedes Benz, Ford, Chevrolet, VW are all rolling out Hydrogen Hybrid Fuel Cell Electric Cars and trucks which are all consumers of Hydrogen. It's an interesting fact is that the H2 Hybrid Electric Vehicle's all perform more efficiently and economically, than conventional /current electric motor vehicles. This is because there is no recharge delay. Regional Governments can simply tax and structure H2 vendors the same way and the business model for uptake is instant. Consumers of the H2 economy will simply drive off the lot and expect to start using easily found H2 Fueling station's.

Our proposal for client site application will also find bankability and sustainability as well energy security, while they realize the immense benefit's for producing virtually all their electrical power needs (Supply, Delivery and Demand) and energy storage from Hydrogen production and H2 Engine's to power their entire facility. We have the ability for this site to provide a sensible ROI from our proposal and we have an option for phase two and three on this site, to utilize the roof surface area to produce an entirely new revenue stream for selling and transporting local retail Hydrogen for other consumers of the Hydrogen Economy.

Fixed engine / prime mover power plants are no different to comparison for the automotive H2 economy which is rapidly approaching. Secure Supplies USA is leading the way to facilitate this paradigm shift. Details in this proposal will explain how our unique solutions work to make (Client) and its client base both secure in their alternative energy investment's and profitable for immediate as well as future capital investments projects going forward.

This proposal will highlight how to position your Solar Power Generation Investments to pivot and leverage returns toward gas product and supply both for retail and wholesale consumers of gas, while also providing energy and/or for smoothing out fluctuations in your daily power generation. This will greatly interest clients you have with meaningful and

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easily executable / fast deployment options to give them green energy into the night or even when the grid goes down.

The added benefit of a solar time delay which these scalable system solutions allow for, are provided via diurnal cycles. In this best use of PV to H2 energy model, your client's will be storing energy in a way to increase client bases for remote site location's to be powered and/or for providing retail H2 Gas delivery.

By adding mobility to the product, via distribution via Gas Rail or through transport (Virtual Pipeline), we can deliver H2 Gas directly to your own onsite H2 engines. This is achieved by gas grid onsite or via transport and trailer supply via high pressure and high H2 gas density delivery bottles direct to your clients H2 engines, fuel cells, turbines. This is accomplished through onsite gas grid or mobile pipeline (Virtual Pipeline) via safe DOT spec. Gas Pods either on trailers for swap out delivery or for refueling fill up to larger stationary receptacles.

*An entirely new ROI stream is had from this model, one that is secure increasing in demand for infrastructure and parallel to power grid and one that is not effected by electric cars over loading and crashing grid in demand load spikes or regional transformers failures.*

***We like to say it is an EMP proof parallel product to existing power grid.***

Secure Supplies USA achieves this with existing leading manufacturing of H2 Specialty OEM equipment and ancillary support technology. We offer strong and proven vendor partners on all levels of project management and project support. Secure Supplies USA becomes a Special Purpose Entity Partner with the (Client) team for the long term. Secure Supplies USA will initiate training programs for EMS First Responders on the Pittsfield site. This will be accomplished for the purpose of mandatory local first responder training and Certification of emergency personnel for becoming familiarized with Hydrogen safety requirements. We have included this surface area as designated training space within our proposal. Secure Supplies USA will be a consistent companion for providing maintenance and operation's which shall also include scheduled equipment Preventative Maintenance. Warranty requirements as well as best practices management for efficiency and safety require our involvement.

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At this moment in time these system's once deployed, will instantly open new categories of H2 consumers as well as commercial client application's in every state or city or community in which they are deployed. GSM Backup, Server Backup, Grid Buffer and wholesale to retail dispenser forecourt sites to name a few are all potential new clients who will be glad to have a Green Hydrogen Gas provider within their midst. This creates an exciting 'first in first serve' business model for just being in the Hydrogen Economy infrastructure business. This permits for production sites to not only stabilize their power storage and run times as offered, but also be a gas rail to certify and test client's items for hazmat training and build local ems and community support / awareness for the new H2 economy and methods to deploy all the resources Secure Supplies USA and (Client) can provide.

Secure Supplies USA will provide the vital client / vendor partnership necessary for (Client) to support a Hydrogen Economy that is rapidly deploying in front of our eyes. Being early in, the industry will respond to Hydrogen Gas Providers such as (Client) and Secure Supplies USA without hesitation and with great interest. This makes us all leader's in a rapidly growing industry from day one of deployment.

The energy produced within the H2 storage system will provide bankability and revenue for up to 25 years of use. Monitoring System Information is achieved through Internet based application software and can be GSM or radio based (remotely) upon request. Maintenance schedules are simple cost effective and routine with 2-5 years warranty on all key components. It is inclusive of workmanship. Secure Supplies USA H2 Production, storage and energy generation systems are cutting edge and are of the highest known to exist for both performance and efficiency. Secure Supplies USA provides for EPMG a quality turn-key energy system with storage, bankability economy and revenue models for scalability and growth models. We provide design engineers, electrical engineers, civil engineers PR communication's and action plan model's for partner investment opportunities for (Client).

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We hope you will accept our attached our proposal for providing these unique products and services from Secure Supplies USA. We will ensure your business can realize an excellent ROI along with reliability and maximize (your client's) energy efficiency as well as their profits.

Sustainability is now a large part of every modern business's operational and future planning. These projects for Hydrogen Production will undoubtedly form a significant part of reducing imports and a dependence upon fossil fuels. We will greatly impact overall reductions of Greenhouse Gas emissions along with providing localized economy and energy security for communities where our projects are to be deployed.

Yours sincerely,

Daniel Donatelli  
Sr. Director, Secure Supply USA

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**FUELING HEALTHY COMMUNITIES®™**

## **DEMAND FOR FUELING SOLUTION'S 2016 Toyota is tracking sales for 200 FCV cars a month.**

**By 2017, Toyota is projecting 3,000 Hydrogen Hybrid Electric Mirai's  
To be on the road in the US.**

**1.5 million hybrids are projected by year by 2020 (4 years from now).**

**Other Auto Truck and large equipment manufacturers are  
In production right now with 2017 hydrogen Fuel Cell models.**

BMW, Volvo, Mercedes Benz, Ford, Chevrolet, VW, Caterpillar to name a few.

**Secure Supply USA aim's to provide full support for this Hydrogen  
Economy - with your commitment...**

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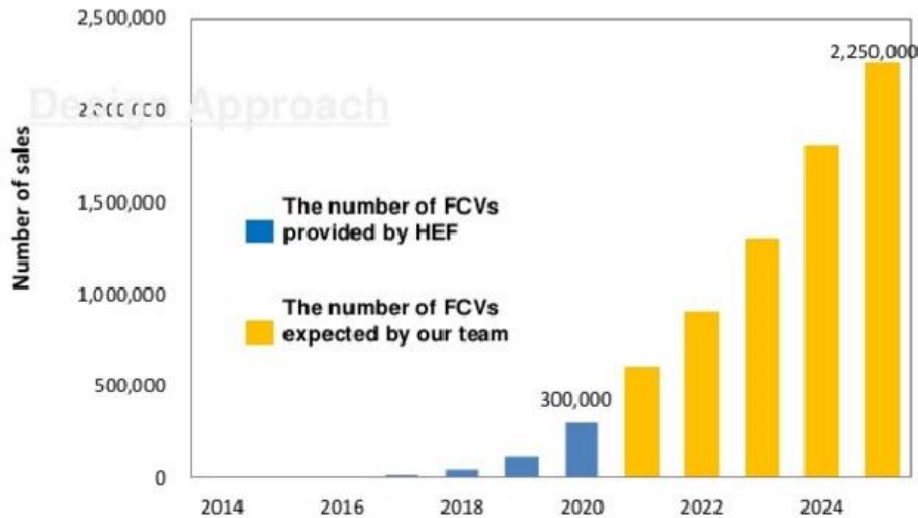




## Example of Deployment Phase Planning

### 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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**Solar Power to H2 Gas Production to Storage and then to delivery / fueling**

**“GREEN H2 Fueled - After Dark Generator Hydrogen I.C. Engines”**

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Secure Supply USA's Green Hydrogen Energy systems provides cost-efficient / reliable prime power energy generation on a fast-track basis to power your project locations. We provide an attractive Rapid ROI with a New Energy Storage capability and a Carbon-Free / Green energy resource for prime electrical power generation as a turn-key / durable / value-add solution.

We leverage state-of-the art technology and industry-leading expertise to provide utility and industrial customers with fuel-efficient turnkey energy production and storage facilities, which are rapidly deployed, customizable, and fully scalable.





# S1 Power to Gas KIT

## Power to Gas

### 1 Acre

**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**



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

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## S2

# Higher Compression Truck Dispatch Forecourt Mobile Pipeline 1 Acre

30 Bar Gas Line ,35 MPA, 70 MPA Vehicle Direct Fills, 250 to 350 PSI Trailer fills.  
700 MPA ready. Achieves SAE2601 Global Standard. Pictured S2 Storage 20 foot and 40 Foot



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Secure Supply  USA  
HYDROGEN Electric Generator  
**engines**  
fueling healthy communities



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# S3

## Prime Power

**Hydrogen Fueled MW Class H2 Fueled  
I.C. Engine Plant  
1 mw to 5 mw Energy Hubs 1 Acre**

**No Limit to Capacity, Near Zero Emissions, 47% Fuel Conversion to Power Efficiency Low  
Maintenance Costs Life Span 25 Years Warranty 2 to 5 Years**

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### Hydrogen production storage: Power Hub Site

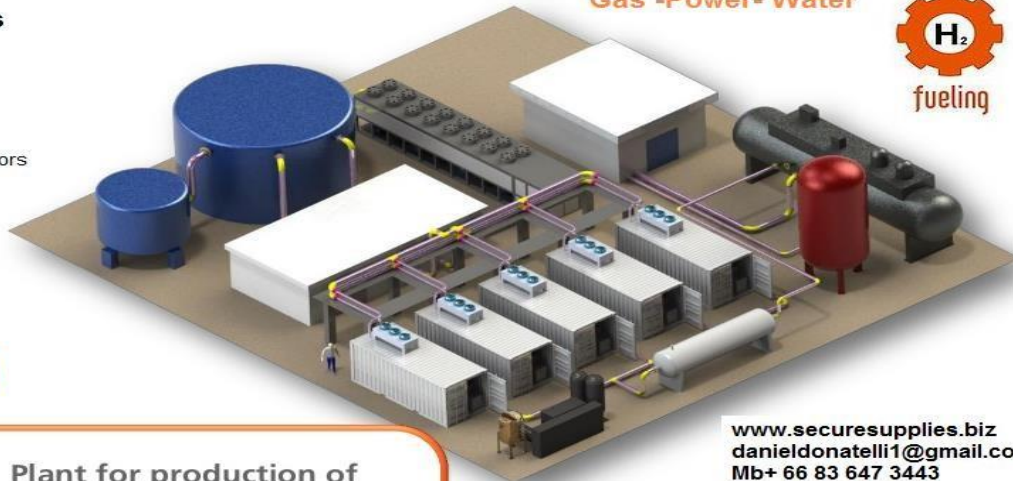
#### Secure Supplies

Water Tanks  
Fuel Maker  
Transformer Room  
Storage Tanks  
Buffer Tanks  
Cooling Tanks  
H2 Fuel Electric Generators

This site shown has compressor but optional depending on storage chosen.

**Engines can Make power or Pump Water to meet Peak load**

Plant for production of hydrogen by PEM electrolysis (6 MW) integrated with renewable energies.



Make and Distribute Gas -Power- Water



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By Using Hydrogen, we drop the running Cost of Diesel @ \$171/hr per 1 mw (Heavy Carbon pollution) to **\$20 per hr. per 1mw**. Solar Hydrogen Fueling at Night or Day during Peak Demand

Retail Value \$100 Per 10 Kg or = \$80 per Hr Profit / 1 mw is sold to a gas buyer **Hydrogen Cost \$20 per hr per 1mw (near Zero Pollution)**

This Creates even more distributed power placement & sales opportunities for Higher ROI \$ per kw to be charged on Power and Gas.

## Secure Supplies Service Contract

(Warranty is International)

1. Performance 25-year workmanship
2. 2-year warrantee Engine & Key Components
3. Electrolyzer 2-year warrantee 5 warrantee year all Systems

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3. System Installation 2-year warrantee

\*Operate and maintenance yearly with staff onsite

**PROJECT TIME LINE for 5 Mw Sections to complete 60 MW**

TASK S1 & S3	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Survey Design and Prep						
Civil Works						
Materials Procurement & delivery						
Concrete Pad						
AC electric						
Gas Lines						
Trailers						
Transformers & Water Connect						
1 mw Engines						
Electrolyzer						
Test a commissioning						

TASK S2 Option	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Survey Design and Prep						
Civil Works						
Materials Procurement & delivery						
Concrete Pad						
AC electric						
Gas Lines						
Trailers						
Transformers & Water Connect						
Compressor installs						
Fill tower installs						
Test a commissioning						

Legend	
TASK	
IN -process	
Complete	

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**Secure Supply USA proudly offers you**

***A Carbon-Free High Purity 99.9999% Fuel Cell Grade Green Hydrogen fuel, produced directly from Hydrolysis - Sunlight and water and is made available to consumers directly from Solar Farm's, Geothermal or Wind Turbine's...***

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## Virtual Hydrogen Pipeline - How it Works

### 1 Compression

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 home until licensed site

Industrial Sales Delivery

Highway  
Home Chlorination  
Central station  
Central station



### 2 Delivery & Storage

Full trailers transport gas to offloading "Daughter Station"

Hydrogen production storage



"Mother Station" on gas pipeline fills high capacity trailers



### 3 Metering & Send Out

H2 and O2



### 4

Empty trailer returns to "Mother Station"

offloaded at client's decompression "Daughter Station"



## Typical Industrial Consumer Hydrogen Production & Storage

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Using Hydrogen, we drop the running cost of Diesel \$171/hr. per 1 mw to **\$20 per hr. per 1 MW through Renewable Energy to Hydrogen Fueling (at Night or even during Peak Demand)**

**Retail Value \$100 Per 10 Kg or = \$80 per hr. Profit / 1 MW is sold to a gas buyer.**

**Hydrogen retail cost \$20 per hr. per 1mw (Zero Carbon emission)**

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We create more distributed power placement opportunities & more sales opportunities for higher ROI revenue per kw to be charged via Power generation and Gas usage.

PPA & Gas Purchase Agreements are new revenue opportunities... Energy Stability and Security are localized and ASSURED.

## S1 is the first Step

Secure Supplies USA configures Solar Farm array in such a way that it purchases the energy it stored as a new energy gas product from the Array. Either gas is supplied by gas grid or by mobile (Virtual Pipeline) delivery.

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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### S1 Solar Power Gas Hydrogen Storage

1. 1 Acre Grounded Concrete Pad
2. Trailer/ Storage Pod x 1 151 Kg
3. Management of system and monitoring energy and maintenance
4. Transformer High Voltage and commissioning
5. Feed to Gas Production Energy Storage.
6. Grid Operate Import
- 7 Gas Systems & Water Systems
8. Substations can be Provided to match Single line diagrams
9. Load power is to power gas and storage equipment interlock controller arrays
10. Safety Systems Dispenser 30 Bar 99.9999% Pure h2 no chemicals
11. Runs at 30 bar direct to local gas grid or to time buffer storage.

## **(Demo) Site with abutting off-taker**



Ex: SOLAR Farm Array / System = 1.5 MW PV DC

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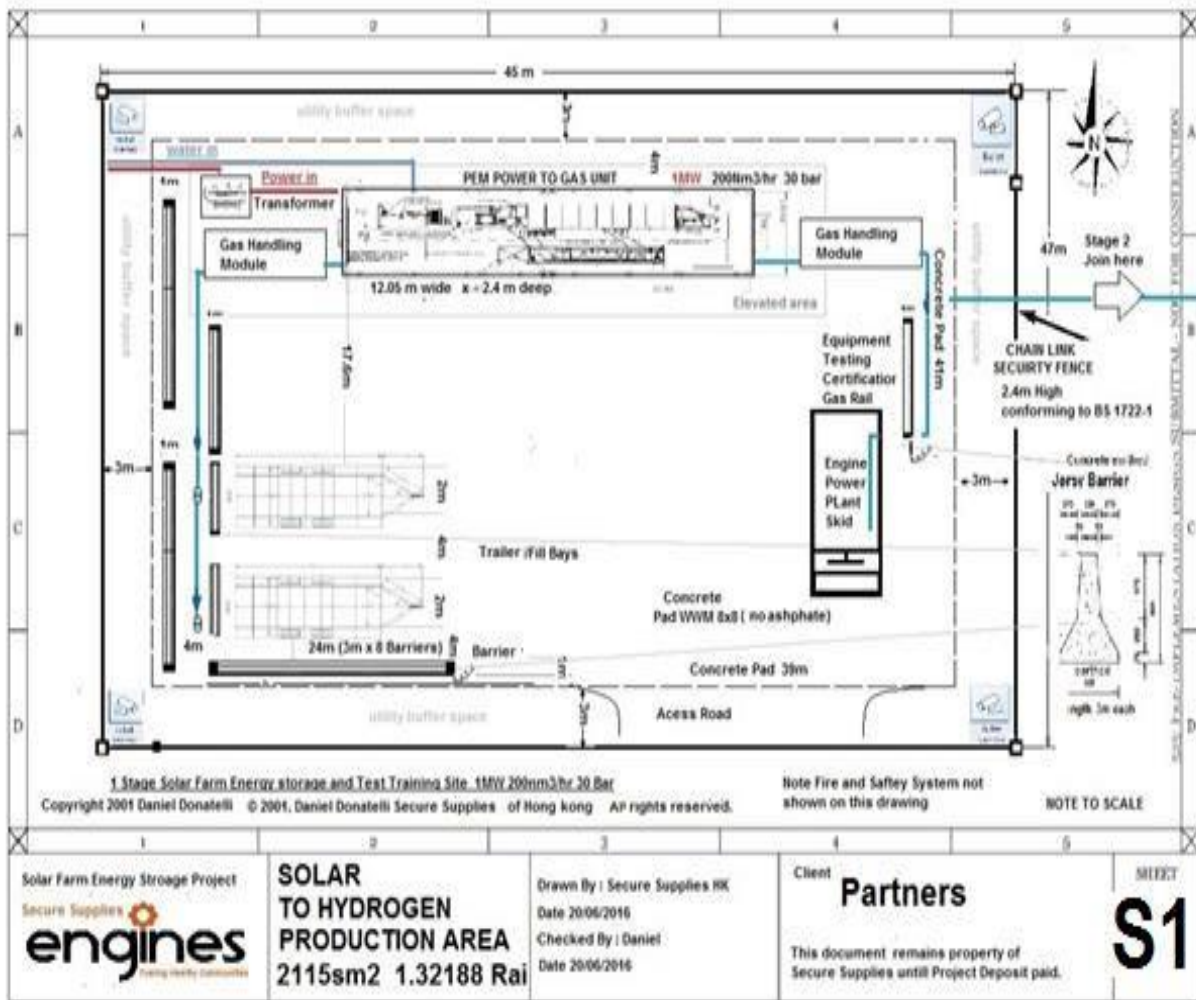
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**S1 Power Gas Hydrogen Storage and S2 Compression to meet SAE2601**

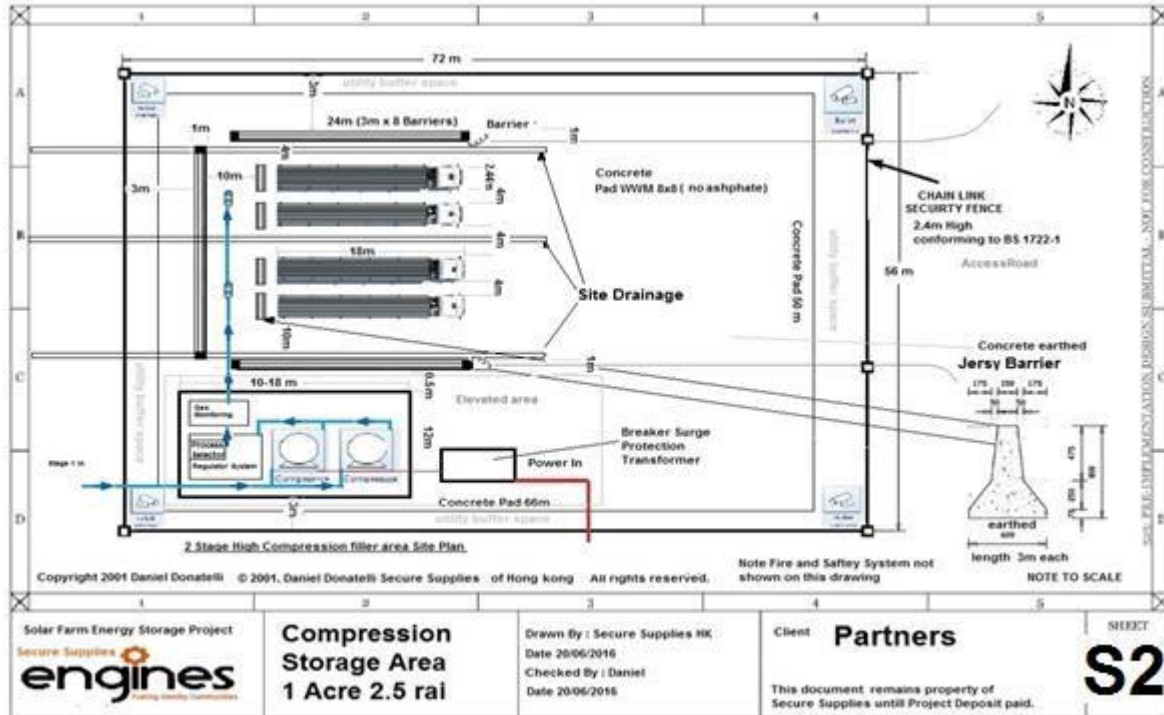


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# S1 Energy Storage

## Energy storage development

DC Power 1.2 DC Mw power dc per hr. and consumes, (if 60 mw site we x by 6 (10% initial target for deploy) = 6 mw

1. Water 187 Liter Per Hr , or equivalent 48 Gal / Hr  
( if 6 units than 48 gal x 6 =288 gal per hr)
2. Pictures is one unit we can put 4 pc per 1 acre approx. with safety buffer

1. **Budgetary quote to include**
  - **Cert SAE ISO ISP GB JB meet all fitting/ joints Cert's Standards**
  - **Installation Supervision 10-20 days TS 2000 MWIS**
  - **Commissioning & Training 10-20 days be TS 2000 MWCT**
  - **Recommended Spares Kit Yes basics**
  - **RO/DI Water System Yes**

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- High purity H2 dryer available **not required** can be added, left out as PSA unit have consumable costs.
2. **Excluded from scope of supply:**
- Thermal Control Unit **only required** is rapid fill and or hot climate
  - Extended Warranty Optional Service contract to match lease terms if required on scale up rolling upgrade.

Secure Supply USA Technician checks for H2 Gas delivery and tolerances.



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Within H2PLANT includes items below:

M-AA4AA00 Hydrogen Generator, 1 MW Platform, 200 Nm<sup>3</sup>/Hr, 30 Bar Hydrogen Generator based, non-caustic Exchange Membrane technology.  
 Net Hydrogen Production Capacity: 209 Nm<sup>3</sup>/hr (kg/24 hr)  
 Designed to ISO22734 1  
 Advanced operational and safety systems  
 Accepts remote signal to control hydrogen output  
 Modular design and packaging allows for easy integration into customer plant

**S1**

The indoor package includes the following:

Medium Voltage Transformer  
 Hydrogen and Oxygen Process Skids  
 Cell Stacks & Rectifiers  
 PLC Based Control System  
 Piping & Wiring Hardware Required to Connect Process Skids, etc...in accordance with Standard General Arrangement Drawing

T-1000-01MW Kit, 1 MW Platform, 200 Nm<sup>3</sup>/Hr, RO/DI Water System

CONTAIN01 Containerization

S-2000-MWES Project Setup

Engineering support activities include preparation for and attendance at project kickoff meeting; development and review of project schedule; finalization, review, and submittal for approval of standard project documentation which may include review and approval of General Arrangement Drawing, electrical on-line diagram, system plumbing & instrumentation diagram (P&ID), Interface Control Documentation (ICD) including input power specification, Risk Assessment, and Hazard Operability Study (HAZOP).

**Services**

Line	Part Number	Rev	Description	Qty	Unit Price	Net Price
3	S-2000-MWI		Installation Supervision	1.00	Included	Included
<p>On Location Installation Supervision includes the following:            Supervision efforts to include oversight of connections both between the Hydrogen Generator Skids and from the facility to the Hydrogen Generator Skids. The interconnection efforts assume the availability of customer supplied personnel (local trades, plumbers, electricians, etc.) to perform the interconnection activities; the activities will vary based on siting. In case of delays due to customer, additional working days and expenses will be invoiced and based on Proton OnSite's standard rates.            Site Location: USA            Note:            Travel, Accommodations, and Expenses to be Billed at Actual.            Pricing does not include any installation site work.            Installation Supervision is a separate, single trip to site.</p>						<b>S1</b>
4	S-2000-MWC		Commissioning and Training	1.00		
<p>On Location Commissioning and Training includes the following:            Review of M Series installation, start up and initial operation verification of operational parameters, training of daily operations, maintenance, troubleshooting, and use of operating manuals. In case of delays due to customer, additional working days and expenses will be invoiced and based on standard rates.            Site Location: USA            Note:            Travel, Accommodations, and Expenses to be Billed at Actual.            Pricing does not include any installation site work.            Commissioning and Training is a separate, single trip visit.</p>						<b>S1</b>





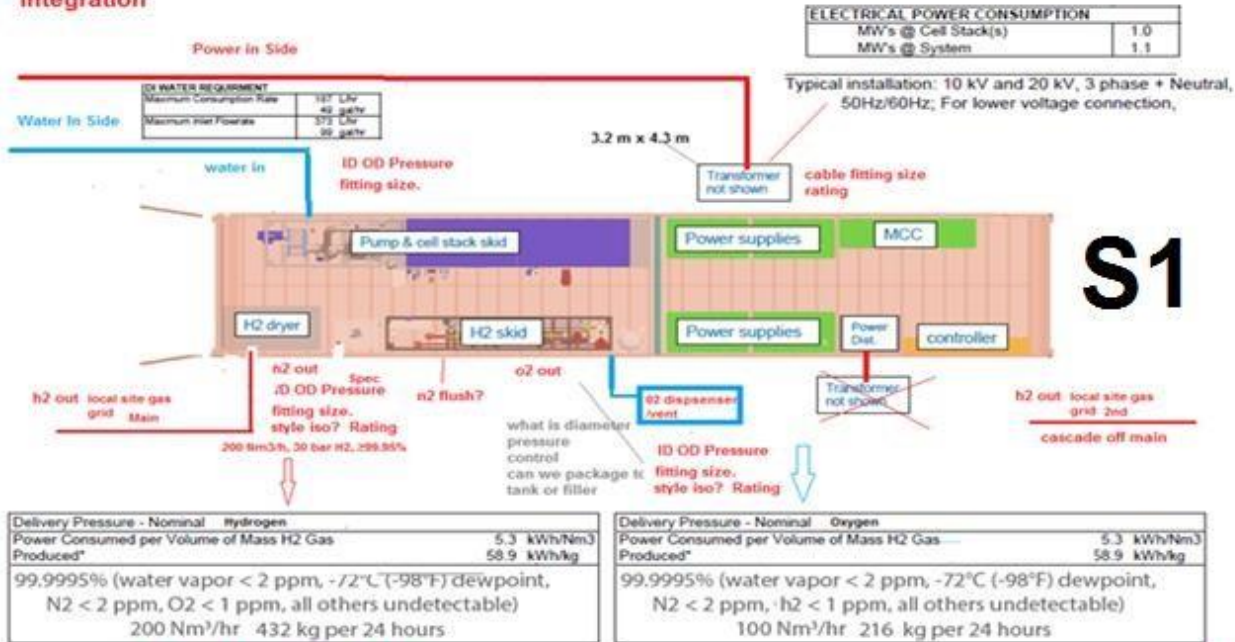
# Secure Supply USA

HYDROGEN Electric Generator

# engines

fueling healthy communities

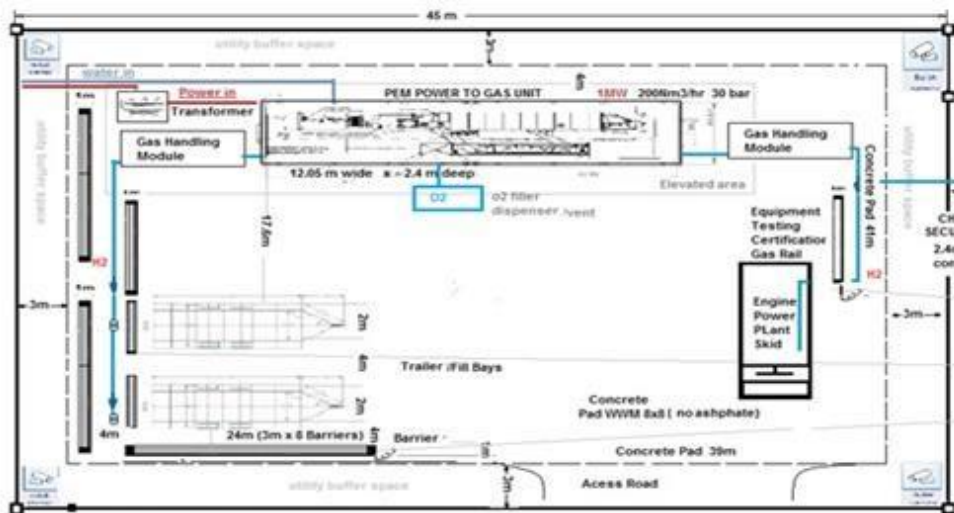
### Integration



### Output Pressure 30 Bar

<b>HYDROGEN PRODUCTION</b>	
Gross Production Rate:	
Nm <sup>3</sup> /hr @ 0C, 1 bar	209
SCF/hr @ 70F, 1 atm	7941
SLPM @ 70F, 1 atm	3748
kg per 24 hours	451

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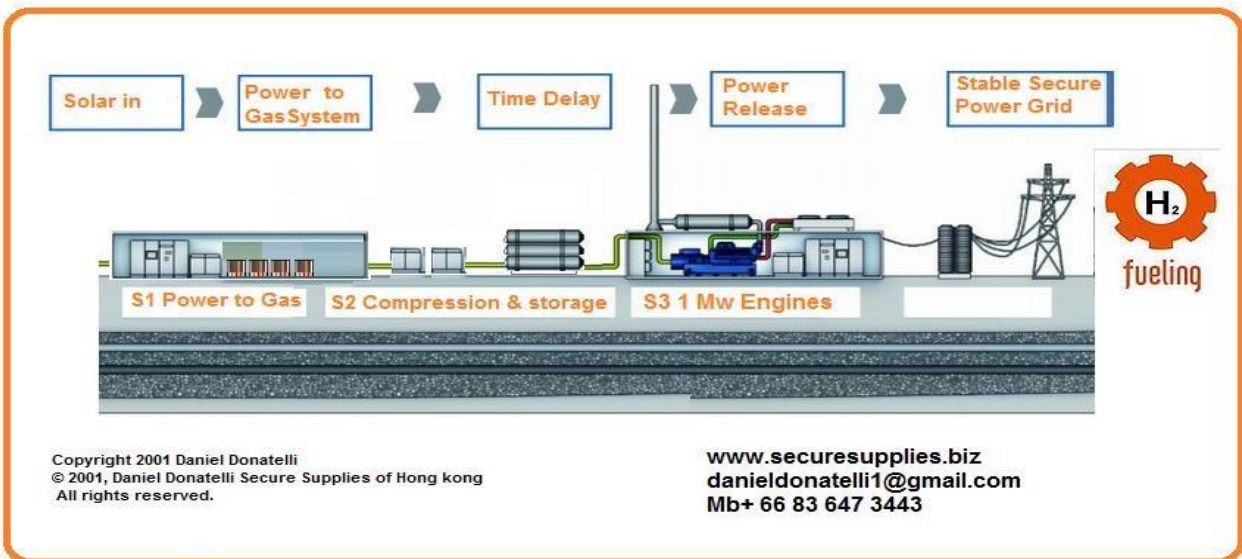




## Fast product response times

## Touch pad user Interface

Web based communications reporting software



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## Item List

1	<b>200 nm3/hr pure hydrogen electrolyzer 30 bar operation pressure 1.2mw dc power in. Stores energy as h2 gas all internal accessories and parts. Transformer.</b>	\$3,800,000
1	Energy Storage from Solar or Mains Power for extending Power Production at Solar Plant and Buffering Power Grid Via Scalable storage and local scalable engine gas grid array	Included
1	Will be Shipped by Sea costs included excludes import tax and duty.	Included
1	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.	Included
1	Inlet fittings and Battery fittings Starter	Included
1	Safety Equipment Basic kit included	Included
1	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. Extra engineers cost by local authority not include if required buyer cost	Included
1	Container Case included. SGS TUV inspection Included 60-day mark.	Included
1	40 foot Electrolyzer 200 nm3/hr at 1.2mw dc 30 bar pressure	Included
1	10-foot Tank Foot Hydrogen Storage Units	Included
1	Engineering and design civil and onsite startup of equipment	Included
1	Certifications by sgs Tuv prior to install	Included
1	Cascade storage is from Cascade system	Included
1	Supervision and Training of Buyers Staff	Included
1	Gas Grid fittings	Included
1	Transformer for unit side connect to solar/wind farm substation or grid	Included
1	Engineers for the Equipment to over startup and basic training.	Included
1	Civil design and site engineering survey designs	Included
1	cooling system	Included
1	Service schedule is 1 time a year 5 days.	Included
1	Basic Gas Grid Fittings including basic safety systems	Included

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1	Pressure control System PLC	Included
1	Temperature control system	Included
1	Bonus Items advised on delivery and install	Included
1	Training and Support and Warranty.	Included
		Included
1	Water Ionizing kit	
1	Pressure controllers	Included
1	Power panels on the unit	Included
1	Breakers and controllers on the unit	Included
1	External Compressor is a option, not included as Unit does 30 bar standard	Included
1	Flash Arrestor systems	Included
1	Engine 150 Kw for demo included loca gas grid	Included
1	Intrim onsite staff service 30- 60 days	Included
1	Hydrogen Leakage Alarm	Included
1	enough for tanks and trailer phase one stage Phase 2 scale up Compression Storage extra	Included
1	Control System	Included
1	Hydrogen Monitor Interlock	Included
1	Cement Barriers	Included
1	Local Gas grid under 20 meters include 30 Bar to retro fit engine	Included
1	Process and Mechanical Design of system	Included
1	Piping and Instrument design	Included
1	Design of Electrical and Control System	Included

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1	Equipment load data for civil works and civil prepare of site by client	Included
1	Solar Farm Connection Design	Included
1	Project Planning and management	Included

## Scalability

### Plug and Play Daisy Chain

#### Types of Filling Stations



This picture shows the firm level ground with access road and fence.

It is well drained from flooding elevated site and the ground is compressed gravel and earthed, all concrete is earthed well. this allows easy access for maintain and moving by side loader in case of natural disaster.



We Show this for mother station prep and planning and Hub site planning.

Some may include engines or fuel cells

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## **Cutting Edge Energy Power to Gas Production: S1 - Storage pods (Included with S1 Purchase)**

The frame for the system will be designed to meet requirements for being in full compliance with DOT Certification and road transportation requirements. Our Trailers and H2 Storage Pods will fully meet all guidelines of ISO 668.

The module will have twist locks and will be mounted onto a trailer in the same method as an ISO container.

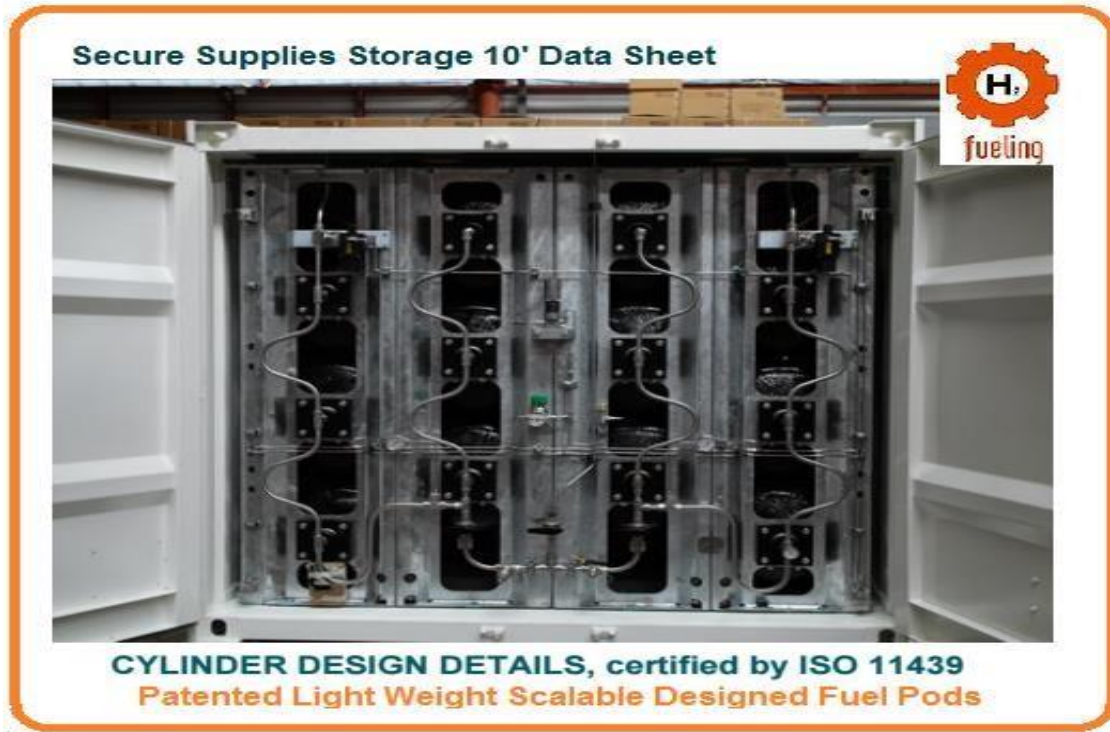
The components of the fuel storage system will be integrated directly into the ISO frame and tanks. The cylinders are neck-mounted into the frame structure; the fuel management plumbing consists of stainless steel collection pipes with plumbing for each of the 5, (4) cylinders to one manual valve, collecting all lines to a central connection point which will be connected to the main fuel line of the 10' Pod.

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This is a Unique and High Capacity SAE 2601 Ready unit offered by Secure Supplies USA

## Setting the Industry Standard

Our tanks will be mounted to allow for axial and diametric growth during the pressurization cycle. Each tank will have a fixed end where the interconnect plumbing will reside and a sliding end using a proven Secure Supplies radial bearing design.

The modules will have a fire protection system that will vent the pressurized gas in the event that the module becomes engulfed in flames. Each of the 5, (4) tanks will receive a number of TPRDs (temperature triggered pressure relief devices) which actively will vent the gas of the related partition. The flow of gas will be collected in common stainless steel venting lines guiding the gas to the top and outside of the container.

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### Secure Supplies Storage 10' Data Sheet

Item	Storage Modules
Type	10' STORE module
Number of cylinders/module	16
Module height (m)	2.59
Module width (m)	2.44
Module length (m)	3.05
Service pressure (bar)	250 (@ 15 deg C)
Volume per cylinder at 250 bar (L)	450
Total module volume at 250 bar (L)	7200
Approximate capacity (@ 15 deg C, 075 specific gravity)SCM natural gas *	2,133
Weight per cylinder (kg)	165
Estimated frame & tank weight @ 1 bar (kg)	5,000
Estimated total weight with gas @ service pressure (kg)*	6,500

\*accordingly to hydrogen

CYLINDER DESIGN DETAILS, certified by ISO 11439

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## Secure Supply USA

Setting the industry standard...

S1 Stage1 is both agile and Scalable.

Small and Agile to Deploy and deliver your product to all Towns and inner city Energy consuming Production sites.



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**Maximum Fill Pressure, P<sub>max</sub>** 310 bar

**Operating Temperature Limits (settled)** -40° C to 65° C

**Peak Fill and Discharge Gas Temperature** -40° C to 82° C

**Cylinder Test Pressure, P<sub>t</sub> (3/2 of P<sub>w</sub>)** 375 bar

**Vessel Diameter (unpressurized abt.)** 540 mm

**Vessel Length (unpressurized abt.)** 2.791 m

**Water Volume per Cylinder at 250 bar  
(approximate)** 450 lt

**Weight per cylinder** 165 kg

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# S2 Detail

## Higher Compression

### Larger Truck Dispatch Forecourt Mobile (SSUSA "Virtual Pipeline") - 1 Acre

30 Bar Gas Line, 35 MPA, 70 MPA Vehicle Direct Fills, 250 to 350 PSI Trailer fills.  
700 MPA ready. Achieves SAE 2601 Global Standard.

Pictured S2 Storage 20 foot and 40 Foot



Secure Supplies S2 Compression and Truck Pipeline 1 Acre

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Secure Supplies High Recommended Deploy S2 with your Initial S1 Development. As the S2 makes your site meet the SAE 20601 Filling standard and you can secure retail ability before laws tightened.

S2 also give your site ability to pack and ship gas at higher pressures thus taking longer run times from buffer tanks and less delivery run to clients. If you have 2 or more sites it also means you can create a way to interchange gas delivery or focus gas deliveries to 1 large multi engine S3 Site. This to ensure scalability and reliability in all circumstances. The S2 Includes 40 foot and or 20-foot Storage Units matched to your site needs. Operating at night with your own clean green fuels is now a reality.

QTY	Equipment being supplied in a 1 Acre 1.2 MW Typical Demo Site	UNIT FOB PRICE USD	TOTAL CIF AMOUNT USD
2	<b>Compressors minimum 2 unit suggested</b>	2,800,000	2,800,000
	Compression Storage and Gas Handling from Solar or Mains Power for extending Power Production at Solar Plant and Buffering Power Grid Via Scalable storage and local scalable engine gas grid array	Included	
	Will be Shipped by Sea costs included excludes import tax and duty.	Included	
	Gas Plant Design	Included	
	Electrical Design	Included	
	Mechanical Design	Included	
	Safety Equipment	Included	
	Monitoring Equipment	Included	
	Rapid fill Cooling equipment	Included	
	4 Fill Posts 35 Mpa and 70 MPa SAE 2601	Included	
	Buffer tanks	Included	
	Transformers	Included	

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	Gas Gauges and local gas grid fittings	Included	
	Safety Barriers	Included	
	Interlock and power conditions	Included	
1	Storage Unit 40-foot Carbon Fiber	Included	
	H2 Gas Sensor system	Included	
	Remote monitoring system	Included	
	Gas Metering and Billing System	Included	
	Gas Engineer Included	Included	
1	35 Mpa Dispenser Connection	Included	
1	70 Mpa Dispenser Connection	Included	
	Gas Grid Equipment testing point	Included	
	Gas Humidity monitor	Included	



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***Versatility means you instantly have a flexible ROI Channel option from Solar farm, should grid go down...***

**This is a very valuable position to have, as it means your sites move further towards strengthening the local region's energy backbone and provide continuity to supply all consumers running energy consumption devices, as prime power or back up power.**

**Examples of either Fuel Cell our exclusive MW Class H2 fueled I.C. Engine uses may Include...**

Server Sites	Airports	Ems Communications	911 Backup Power	Hospitals	Critical Lighting
GSM Sites	Hotels	Water Pumping Stations	Bus Ports	Drone Ports	Ventilation Units
Satellite Uplink sites	Critical Weather sites	Subway Monitoring Systems	Subway Control Rooms	Telecom Back up fibre control rooms	Road Emergency signs
Truck Refrigeration Fuel Cells	Rail Way Signals	Port authority Signal devices	River authority Signal devices	Port authority Signal devices	Power Storage
Power Provision	Gas Sanitization Autoclave	Boilers Heat and Purification Industry	Trucking	Vehicles	Burners Dryers Kilns

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## H2 Storage & I.C. Engine Run Times



### 10' Foot Trailer Storage

152 kg to 456 kg 250 to 750 Bar SAE 2601

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Capacity per hr Number	8 hr	Power Used	Storage Match	S1		S3 1.2 MW (option 1Mw or 1.7 MW)	
				Engine Match	Hours run	Engine Match	Hours run
1 Machine	200nm <sup>3</sup> /hr	19 kg/hr	152kg	1102 kw 1.2MW	1x 10 foot	1.2 MW	12 hrs
2 Machine	400nm <sup>3</sup> /hr	38 kg/hr	304kg	2204 kw 2.3MW	2x 10 foot	2 x 1.2 MW	12 hrs 3
Machine	600nm <sup>3</sup> /hr	57 kg/hr	456kg	3306 kw 3.4 MW	3 x 10 foot	3x 1.2 MW	12 hrs

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**20' Foot Drop Load Storage Pods**  
**608kg to 912 kg 250 Bar to 750 bar**

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**1** Capacity per hr      8 hr      Power Used      Storage Match      **S2** Engine match      **S3** 1.2 MW (option1Mw or 1.7 MW)

**Number**

4	Machine 800nm3/hr	76 kg/hr	608kg	4408 kw	4.5 MW	2x 20 foot	4x 1.2 MW= 4.8MW	19 hrs
5	Machine 1000nm3/hr	95 kg/hr	760kg	5510 kw	5.6 MW	3x 20 foot	5x 1.2 MW = 6MW	23 hrs
6	Machine 1200nm3/hr	114 kg/hr	912kg	6612 kw	6.7 MW	4x 20 foot	6x 1.2 MW =7.2MW	26 hrs

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**Mw Class 40' Foot Storage**  
**1064 kg to 1520 kg 250 to 750 Bar SAE2601**

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**S1**

**S2 XL**

**S3** 1.2 MW (option1Mw or 1.7 MW)

Capacity per hr	8 hr	Power Used	Storage Match	Engine Match	Hours run	Number
<b>40 Foot Storage</b>						
7 Machine 1400nm <sup>3</sup> /hr	133 kg/hr	1064kg	7714 kw 7.8 MW	2x 40 foot	7x 1.2 MW= 8.4MW	12 hrs
8 Machine 1600nm <sup>3</sup> /hr	152 kg/hr	1216kg	8816 kw 9.9 MW	2x 40 foot	8x 1.2 MW=9.6MW	10 hrs
9 Machine 1800nm <sup>3</sup> /hr	171 kg/hr	1368kg	9918 kw 10 MW	2x 40 foot 1x10ft	9x 1.2 MW=11.52MW	10 hrs
10 Machine 2000nm <sup>3</sup> /hr	190 kg/hr	1520kg	11020 kw 11MW	3x 40 foot	10x 1.2 MW=12MW	24 hrs

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# S3 KIT Prime Power Hydrogen Fueled I.C. Engine Prime Power Plant - Energy Hubs

Hydrogen Fueled Engines Win outright



**Secure 50L 1 MW**  
50 ltr  
12 cylinder  
1 MW  
**Consumption H2 kg/hr**  
**7.88/ 10.38**  
Low Load/High Load  
Retail 1.2 Million  
3,440 cu ft /hr  
97.35199 Nm3/hr



**Secure 60L 1.2 MW**  
60 ltr  
16 cylinder  
1,350 KW  
**Consumption H2 kg/hr**  
**9.6801/12.58**  
Low Load/High Load  
Retail 1.5 Million  
3,803 cu ft /hr  
107.70096 Nm3/hr



**Secure 91 1.7 MW**  
91.6 ltr  
18 cylinder  
1,700 KW  
**Consumption H2 kg/hr**  
**11.71/ 15.22**  
Low Load/High Load  
Retail 1.9 Million  
4,600 cu ft /hr  
130.272 Nm3/hr



**Low Maintenance Costs**  
**47% Fuel Conversion to Power Efficiency**  
**Life Span 25 Years**  
**Warranty 2 to 5 Years**

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### Hydrogen production storage: Power Hub Site

#### Secure Supplies

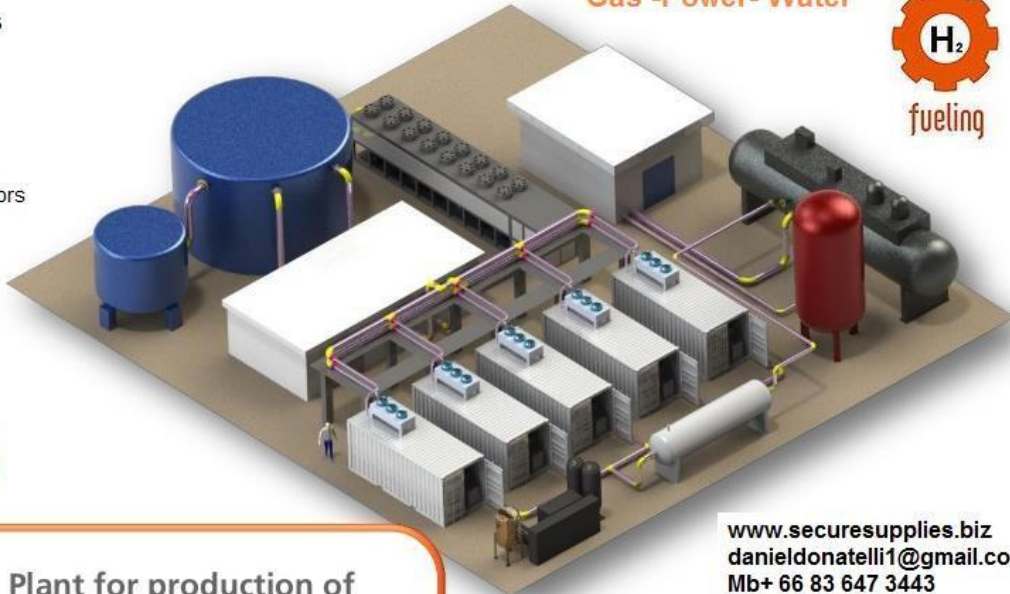
Water Tanks  
Fuel Maker  
Transformer Room  
Storage Tanks  
Buffer Tanks  
Cooling Tanks  
H2 Fuel Electric Generators

This site shown has compressor but optional depending on storage chosen.

**Engines can Make power or Pump Water to meet Peak load**

Plant for production of hydrogen by PEM electrolysis (6 MW) integrated with renewable energies.

Make and Distribute Gas -Power- Water



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Secure Supply USA's 100% Duty Cycle (Warranted) Hydrogen Fueled / High Compression H2 Fueled I.C. Engines with advanced thermal efficiency **win outright over MW Class Fuel Cells and Gas Turbines 500 Kw to 2.5 MW Prime Power Category.** Boasting a **10-25 Year life span at Full Load / 24 hr operation and a much lower maintenance cost when run at full load or partial load over Fuel Cell or Gas Turbines running on pure Hydrogen (with Zero Carbon Emissions).** Fuel Cell's do perform well under a full Load or Non-Stop continuous operations as a prime power source. (**Fuel Cell warranties will not cover full load duty cycles...**)

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**Gas Turbine and Fuel Cells are extremely costly to buy in MW class and have HUGE maintenance cost and short product lives, if run as prime power (over 6 hrs).**

Our MW Class H2 fueled I.C. Engines are far superior in this class of application and can be “daisy chained” or “Gang configured” (for scalable power expansion as configured within an SSUSA “Energy Hub” configuration). The Energy Hub operates either on Hydrogen Gas Grids or operated from delivered high pressure 99.9999% Fuel Cell grade high purity / **GREEN H2 Gas** as provided from our Pod delivery “SSUSA Virtual Pipeline” service.

This option is available under GPA (Gas Purchase Agreement) offered exclusively from Secure Supply USA.

**No limit to capacity, Zero Carbon emissions, 47% efficiency configurations, to power efficiency low maintenance costs. Life Span 25+ Years / Warranty 2 to 5 Years.**

## Fueling Guide

	Capacity per hr	8 hr	Power Used	Storage Match	Engine Match	Hours run		
<b>S1</b>				<b>S2</b>	<b>S3</b>	1.2 MW (option 1Mw or 1.7 MW)		
<b>Number</b>				<b>10 Foot Storage</b>				
1 Machine	200nm <sup>3</sup> /hr	19 kg/hr	152kg	1102 kw	1.2MW	1x 10 foot	1 MW	12 hrs
2 Machine	400nm <sup>3</sup> /hr	38 kg/hr	304kg	2204 kw	2.3MW	2x 10 foot	2 x1 MW	12 hrs 3
	Machine 600nm <sup>3</sup> /hr	57 kg/hr	456kg	3306 kw	3.4 MW	3 x10 foot	3x 1 MW	12 hrs
<b>Number</b>				<b>20 Foot Storage</b>				
4 Machine	800nm <sup>3</sup> /hr	76 kg/hr	608kg	4408 kw	4.5 MW	2x 20 foot	4x 1.2 MW= 4.8MW	19 hrs
5 Machine	1000nm <sup>3</sup> /hr	95 kg/hr	760kg	5510 kw	5.6 MW	3x 20 foot	5x 1.2 MW = 6MW	23 hrs
6 Machine	1200nm <sup>3</sup> /hr	114 kg/hr	912kg	6612 kw	6.7 MW	4x 20 foot	6x 1.2 MW =7.2MW	26 hrs
<b>Number</b>				<b>40 Foot Storage</b>				
7 Machine	1400nm <sup>3</sup> /hr	133 kg/hr	1064kg	7714 kw	7.8 MW	2x 40 foot	7x 1.2 MW= 8.4MW	12 hrs
8 Machine	1600nm <sup>3</sup> /hr	152 kg/hr	1216kg	8816 kw	9.9 MW	2x 40 foot	8x 1.2 MW=9.6MW	10 hrs
9 Machine	1800nm <sup>3</sup> /hr	171 kg/hr	1368kg	9918 kw	10 MW	2x 40 foot	1x10ft 9x 1.2 MW=11.52MW	10 hrs 10
	Machine 2000nm <sup>3</sup> /hr	190 kg/hr	1520kg	11020 kw	11MW	3x 40 foot	10x 1.2 MW=12MW	24 hrs

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***We Suggest 1MW Renewable Energy to 1MW H2 Production for your first site..***

- ***We can offer 1-400 MW Capacity Renewable Energy / Hydrogen production for fully scalable project expansion's.***

***Secure Supply USA offer's EPC / Turn-Key Solar Installation's as well...***

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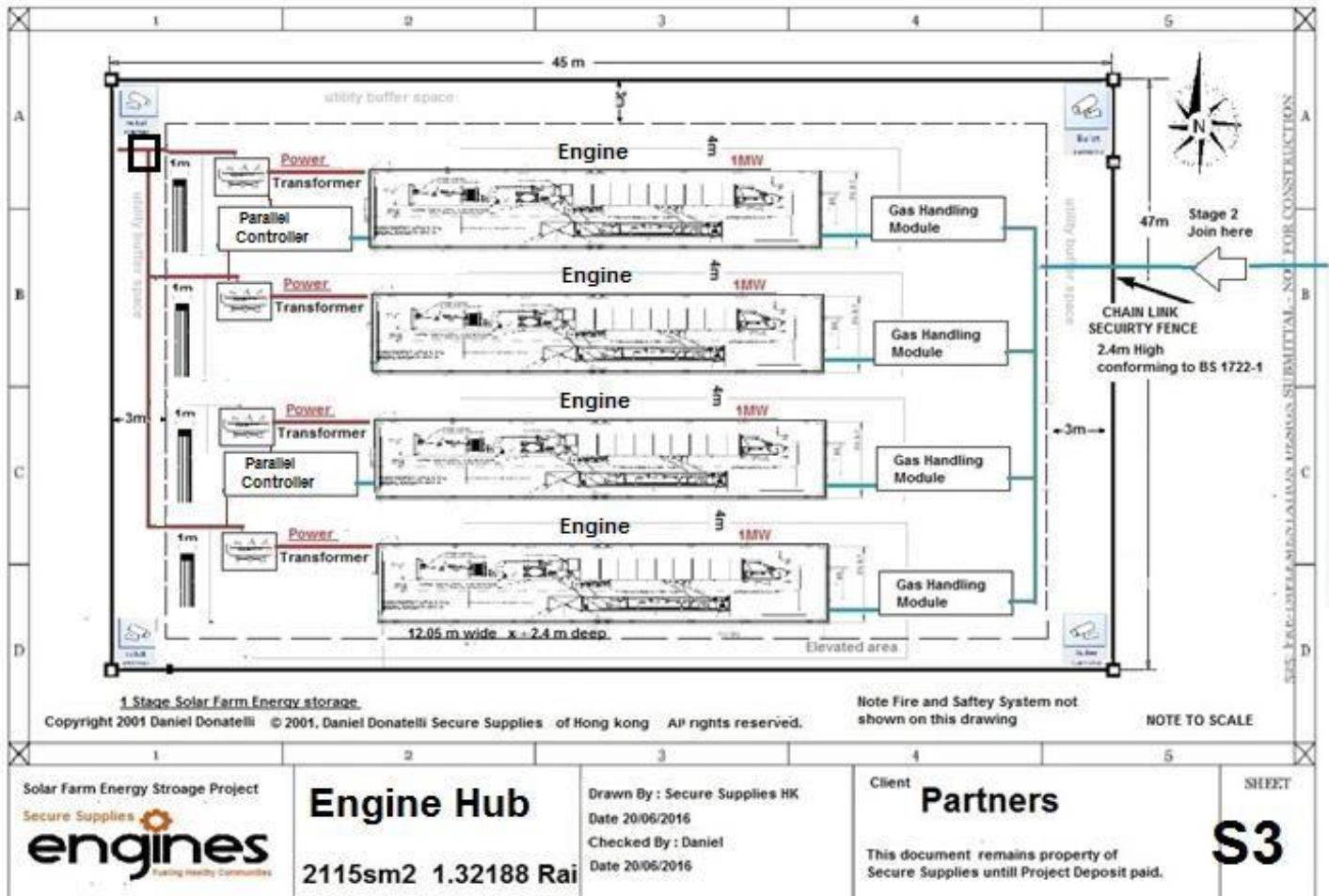
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# Ex: SSUSA H2 Fueled I.C. Engine Hub Layout



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## ROI Calculations

ROI	Key Base Line			
	Per Hr	Per Day	Per Week	Per Month
<b>Solar</b>				
Total Solar Value rrp \$0.13	\$260.00	\$2,080.00	\$14,560.00	\$63,266.67
Total solar Cost Wholsale \$0.1	\$200.00	\$1,600.00	\$11,200.00	\$48,666.67
<b>Margin</b>	<b>\$60.00</b>	<b>\$480.00</b>	<b>\$3,360.00</b>	<b>\$14,600.00</b>
ROI Power Product	30.00%	30.00%	30.00%	30.00%
<b>Secure Supplies Value ADD \$1 ONLY</b>				
<b>Hydrogen</b>				
Total Value Hydrogen rrp \$	\$190.00	\$1,520.00	\$10,640.00	\$46,233.33
Total H2 Cost Wholesale \$ cost for 9 KG/hr	\$5.02	\$40.16	\$281.12	\$1,221.53
<b>Margin</b>	<b>\$184.98</b>	<b>\$1,479.84</b>	<b>\$10,358.88</b>	<b>\$45,011.80</b>
Roi Gas Product	3684.86%	3684.86%	3684.86%	3684.86%
<b>Change in Margin Performance</b>	<b>67.56%</b>	<b>67.56%</b>	<b>67.56%</b>	<b>67.56%</b>

Simple ROI	Base Line		After Costs Yearly	After Costs Yearly	
Solar Farm Roi	Base Line	After Year 1	After Year 10	After Year 11	Solar
Financial Gain / Year	\$175,200.00	\$175,200.00	\$175,200.00	\$175,200.00	
Less Farm Cost	\$1,200,000.00	\$1,024,800.00	Profit	Profit	
ROI %	-584.93%		\$552,000.00	\$175,200.00	
Choice 1	Base Line		After Costs Yearly	After Costs Yearly	
Solar Hydrogen Value Add \$1	Base Line	After Year 1	After Year 10	After Year 11	
Financial Gain / Year	\$540,141.60	\$540,141.60	\$540,141.60	\$540,141.60	
Less Farm Cost	\$4,050,000.00	\$3,509,858.40	Profit	Profit	
ROI %	-86.66%	-84.61%	\$1,351,416.00	\$540,141.60	
			250.20%	3684.86%	Margin %

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# Secure Supplies USA Leasing Options

## Benefits of Leasing Business Equipment

- **Leasing can save you the time** and hassle involved in finding someone who will extend you credit for purchasing equipment.
  - **You can keep pace with emerging technology** by rolling equipment over every 5-10 Years.
  - Short-term leases give you the opportunity to evaluate whether the equipment fits your needs and allow scale up. Helps you stay on top of the latest advances in equipment and technology. Being able to make upgrades to newer equipment when your short-term lease is up can give your company a competitive edge.
  - **Maintenance** may be included in the lease, saving (client) additional cost is a major point, as we offer extended warranty and maintenance to match the lease terms request by lease company.
- **Save Cash** Saving cash is what business owners and CFOs appreciate most. Equipment financing saves your working capital that would otherwise be used if you were to pay cash for your equipment.
  - **Section 179 Tax Benefits** Equipment lease financing presents your business with some fantastic tax benefits. The IRS allows for lease payments to be fully deductible if your business uses the leased equipment.
  - **Preserve Business Credit** You are well aware of how important it is to keep your business credit line healthy... and open. Getting funding for business expansion, staffing and other operational expenses requires solid credit, and having an open credit line allows you to respond immediately in a time of need. Equipment leasing lets you keep your business credit line open and strengthen the cash flow of your business.

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- **Better Balance Sheets** A more attractive balance sheet can be yours thanks to equipment leasing. That's because your monthly lease payment is viewed as a business expense instead of a liability or long-term debt. Having little or no debt on your company's financial statements is a huge benefit when it comes time to secure business funding.

**Secure Supplies USA** can offer leasing structure's after the first deployment and business is done which demonstrates good faith and current or existing trade between our companies. We will make application to buy back all serial number items on your site and move them to a commercial lease.

With SSUSA Leasing, we'll pay you the cash to be used as a deposit for your next scale up for lease and project development (panels, invertors transformer engines tanks compressors and power to gas units).



**Compressor Hubs and On Truck Compressors are options From Secure Supplies**

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## Installation and Commissioning

Careful management of installation and commissioning activities in close partnership with all contract and vendors will assist to ensure that the project is completed safely, on time, to an acceptable standard of quality and within the required budget.

Projects of this Nature are the Pride of all concerned...

There are many individual components that make up a system development as outlined above, and managing the procurement, delivery and installation of each requires planning and control to ensure each piece is produced and prepared on time and delivered and installed to the site in high quality order.

Power to gas compressors, engines & transformers may have long lead times, and equipment being sourced may be subject to tax duties, or require adequate time for import inspection, processing and handover at present no extra expected.

The manufacturers have requirements as to how the equipment is handled, transported and stored, and operated. We provide adequate training for staff who will operate the site and have ongoing co operations. These should be complied with to avoid negating any warranties. This will also help to avoid damage or miss use of yield in equipment. system is designed for specific operation loads and pressures, with automatic controls and remote web based monitoring and alarm systems.

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## Health & Safety

Considerations for safety should be the first priority during installation.



It is important that installers take care not to exceed the building's maximum loading limits at any point during installation. Equipment lay down areas on

rooftops should be considered in the installation method statements, particularly where concrete ballasts are used. PV modules are live from the moment they are exposed to sunlight. The method of connecting and disconnecting cables and gas should be carefully managed. Arcing can occur when cables are disconnected under load, and all connected electrical equipment should be considered to be live, and treated with due care, by adequately trained installers.

## Quality control

The inspection of the installation is very important in preventing risks associated with poor installation quality.

All installers maintain records of inspections, and the installation of the system as a whole will be certified by a suitably competent professional. Installation method statements are prepared before any work commences and the installer is to ensure that all activities are done in accordance with these.

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## Commissioning and Testing

The system is carried out to demonstrate mechanical completion and to test the installation's performance.

Typical tests include:

- mechanical completion tests;
- grid connection tests (if applicable);
- gas equipment functionality tests; and
- Power Production Test and vibration and noise tests
- overall system performance tests (including performance ratio calculation)



## Operations and Maintenance

System components warranties typically require that the equipment is operated and maintained under specified conditions.

Should these conditions not be fulfilled, warranties may be void. We will Provide Training and Support on such.

It is important to understand the equipment manufacturer's operational requirements. These may relate to the housing of the equipment, the minimum and maximum ambient temperature, the humidity or level of dust, or the type and frequency of maintenance activities.

Inverter components, or the entire inverter, require replacement during the operational life of the plant. They can be a material component of the upfront capital costs, and this should be considered in the estimation of operational expenditure.

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## System's Performance

is most commonly monitored by tracking its Performance Ratio.

This is the ratio between the actual energy generated by the system as a whole, compared to the theoretical maximum energy that could have been generated, for a defined period of time. Ineffective maintenance leads to increased losses, resulting in lower system performance or safety hazards.

## Secure Supply USA – O&M Contracts

All design, procurement, construction and commissioning work is carried out by Secure Supplies USA for Engineering Procurement. Secure Supplies will assign construction contractor (USA) Team Vendors. For Solar, Hydrogen Energy Storage, power production and site QC, O&M is carried out by the O&M Contractor.

Facility performance obligations should be in place, and penalties should be payable if the system underperforms. Minimum owner involvement required



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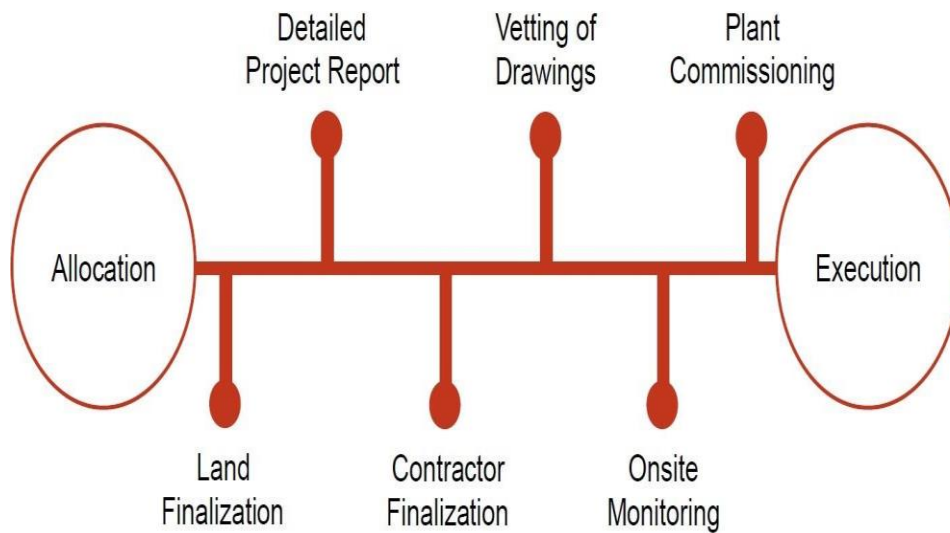


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The Secure Supplies USA team takes on design, cost, schedule and performance risk. Structural and electrical risk resides with Secure Supplies USA. The overall project cost is therefore increased. Possible interface risks between Secure Supplies USA and O&M Vendors during defect liability period.

## The Process Flow



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## Land Finalization

	Parameter	Purpose
IMPORTANT	Metrological Resource Assessment	Energy Generation
	Nearest Substation	Capacity of substation Availability of feeder Transmission Losses
	Accessibility to site	Ease of Delivery of materials
	Water Availability	Water requirement during construction
	Nearby Terrain	Shadow Effects
	Site Topography	To analyze the water blockage problems and placement of mounting structures
	Availability of Manpower	For Construction and subsequent O&M
	GPS Survey	Site Layout
	Storm History	Dust Losses Mounting Structure Strength
	Type of Soil	To analyze the resistivity and load bearing capacity of soil
	Construction power availability	Power Requirement during construction

### Civil Works

Land Survey Land Prep Excluded from Quote. Suitable Specified Gridded Mesh for a grounded concrete foundation site pad ½ to 1 acre well drained is to be prepare to a Civil design with access road and buffer area.

Permitting, Fencing, Lighting and Security Cameras and utility connections such as water and power single line diagram are not included in these costs, as they may vary from local municipality.

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## Detailed Project Report

### Contents

- Site Analysis and Solar radiation resource assessment
- Technology Selection : Solar PV modules and BoS
- Plant and Machinery (Solar PV array and Electrical System)
- Civil and Architectural requirement for the project
- Annual energy generation from power plant
- System Schematics
- Power plant operation and maintenance
- Project implementation and schedule
- Project Financials
- Risk Analysis

## Secure Supplies Contractor Finalization

Release  
of RfP

Shortlisting &  
Finalization

Contract  
Design

- Defining Exhaustive Scope of Work with well defined Quality Criteria
  - **Designing** – Engineering Calculations, Site Layout and System Sizing
  - **Civil** – Leveling, Foundations, Mounting Structures, Control Room etc.
  - **Electrical** – Solar Panels, Inverters, Switchyard, Monitoring etc.
  - **Testing** – Performance Acceptance/Guarantee Test
  - **Operation & Maintenance** – Comprehensive Maintenance & Guarantees
- Arranging and coordinating pre/post bid meetings for clarification to the queries of bidders.

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## Contractor Finalization



## Contractor Finalization







## Contractor Finalization

Release of RfP

Shortlisting & Finalization

Contract Design

**Format**

3 separate contracts are typically drawn to reduce tax burden:

1. Supplies Contract
2. Services Contract
3. Operation & Maintenance Contract

Further, Supplies Contract can be broken down into Import Supplies for Inverters and modules and Domestic Supplies for the rest of the BoS.

## Contractor Finalization

Release of RfP

Shortlisting & Finalization

Contract Design

**Contents Snapshot**

- General Terms of Agreement
- Special Terms of Agreement
- Payment Milestones
- Liquidated Damages
- Insurance
- Defects Liability
- Variations & Adjustments
- Termination
- Warranties
- Force Majeure



97.35199 Nm3/hr

107.70096 Nm3/hr

130.272 Nm3/hr

fueling

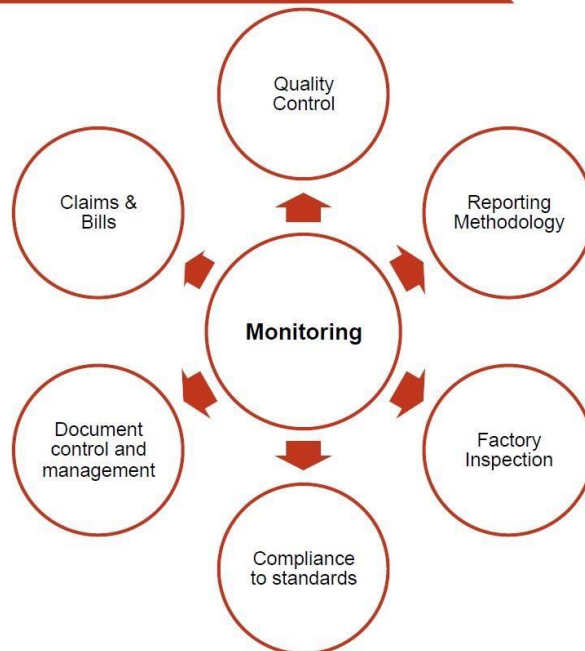
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## Vetting of Drawings & Design

	Drawing	Purpose
CIVIL	Site Layout	Avoid Shading Losses
	Module Mounting Structure	Strength to withstand mechanical and wind loads Zinc Coating for 25 year corrosion free life
	Main Control Room Building	Control Panel, Living Accommodation, Pantry, Bathrooms etc.
	Switchyard	To ensure proper strength of foundations for transformers and other equipment
	Water Pipes & Drainage Layout	To avoid water logging
	Approach Roads & Pathways	To ensure proper access to all parts of the plant
ELECTRICAL	Equipment Layout	To minimize system losses
	System Sizing (Cables, Inverters, Switchyard)	For efficient working while ensuring redundancy
	Earthing	To ensure safety of man and equipment
	Single Line Diagram	To comprehend the fundamental structure of the plant

## Onsite Monitoring



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## Commissioning of Plant

### Commissioning

### Evacuation

- Validating actual generation against guaranteed generation
- Validating the technical parameters of equipment
- Preparation of final acceptance tests
- Conducting performance tests after successful commissioning
- Schedule for periodic checks
- Preparation of annual maintenance contract along with final list of spares and tools

## Commissioning of Plant

### Commissioning

### Evacuation

- Liasoning and approvals from authorized government bodies
- The following need to be communicated and finalized with the state utilities:
  - Laying of transmission lines
  - ABT meters
  - Evacuation infrastructure
  - Grid availability
  - Dedicated feeder
  - Evacuation point





## Ideal Timeline

Project Activities	1	2	3	4	5	6	7	8
Completion of site visit and due diligence								
Bid Management								
EPC contractor finalization								
Vettings of designs and drawings								
Contract drafting								
Commissioning of 25% of Project								
Commissioning of 50% of Project								
Commissioning of 75% of Project								
Commissioning of 100% of Project								
Testing and Handing Over								
Evacuation arrangement								

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**We look forward to working with you in commencing with our project timeline for achieving 2017 / 2018 calendar year & rapid deployment project schedules.**

**Our team can book build-out time line with factories and secure build-out dates with confirmed equipment delivery as well as coordinate O&M vendor teams accordingly.**

**We will be happy to prepare engineered drawing's and enact civil site work / activities as well as file for all construction permits, after we discuss your full proposal and execute our contract with a deposit in order for us to help you to move forward with selecting MW Class GREEN Hydrogen as a Secure Energy Supply and a Carbon-Free Energy Storage solution for you.**

***Thank you for your consideration!***

- Mr. Daniel Donatelli, Sr. Director of Secure Supplies, Ltd. International
- Mr. Jack Mosel, Director / Partner - Secure Supply USA
- Rodger Moore, LEED Engineer, Director / Partner Secure Supply USA

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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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Hydrogen production storage **Phase 2**

**Secure Supplies**

**Time Line 2018- 2025 Phase 2**

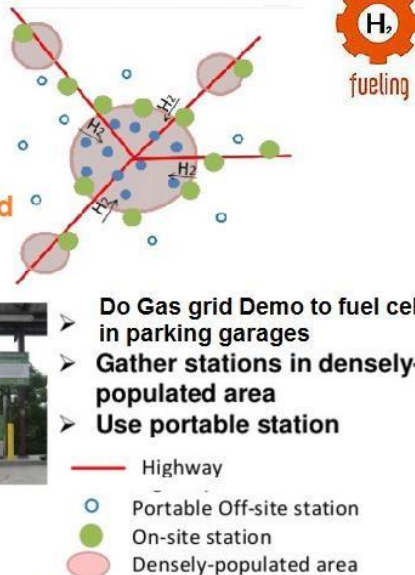
**More urban people in densely-populated area**

**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

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Hydrogen production storage **Phase 3**

**Secure Supplies**

**Time Line 2020- 2025 Phase 3**

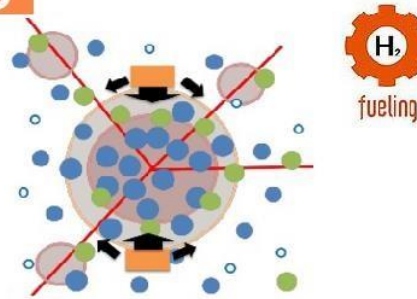
Various people

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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**Example of Deployment Phase Planning**

**Phases of Implementation**

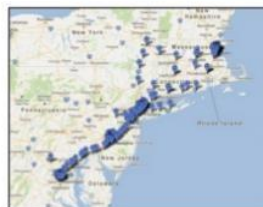
**Phase I**

- Power to gas Sites Built
- Portable Refuelling Stations
- 18 Stations Cumulatively Installed



**Phase II & III**

- Clean Gas Grids Expanded
- Permanent Refuelling Stations
- 156 Stations Cumulatively Installed



**Example of Phase Planning.**

**1st is Solar to Gas Sites**

**2nd is Mobile Distributions.**

**3rd is More Fixed and Fast Fill stations.**

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### Hydrogen production storage

#### Hydrogen Metering:

Dispensing equipment

that has not previously been evaluated for accuracy requires a full evaluation under the Type Evaluation Program. Once dispensing equipment is type certified, identical equipment can be deployed at new locations, and a less extensive evaluation is performed to allow the unit sale of hydrogen.

This confirmation testing of type certified equipment can be performed by a Registered Service Agent (RSA). Two dispenser equipment providers now have type certified hydrogen dispensing equipment and, one entity has applied to be an RSA. The RSA will be able to certify a type certified station, allowing limited DMS staff to focus on type certification and HyStEP implementation.

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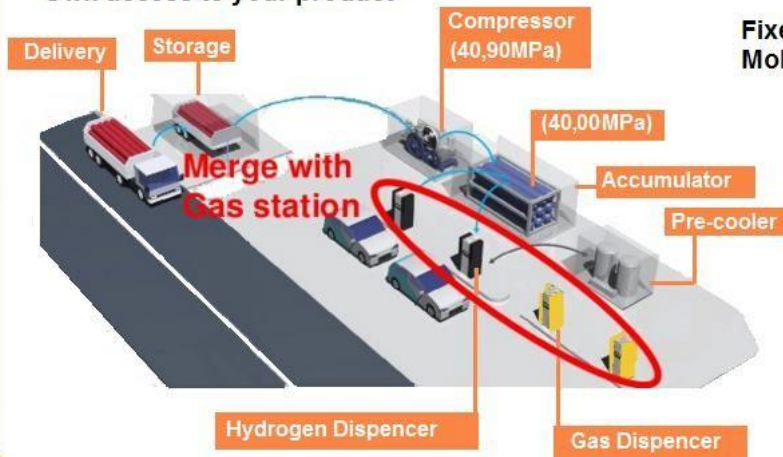
### Off -site station (400 kg/h2 per day)

#### Secure Supplies Merge with Gas Stations

- Convenient for drivers
- Rapid Deployment
- Fast Fills
- Lower invest ment 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**



New place

Portable station  
(40kgH<sub>2</sub>/day)

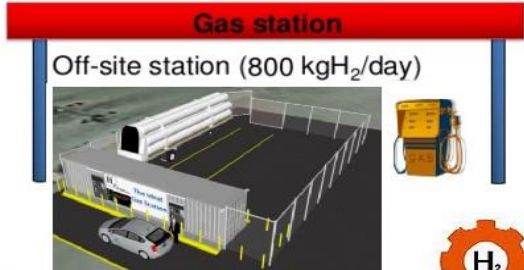
**Very low initial cost**

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 kgH<sub>2</sub>/day)



Moving to fixed  
 Rapid Faster fills  
 Coolers  
 Compressor  
 Storage  
 Bowser

Price Aprox \$700,000

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**Hydrogen production storage**

**Hydrogen Station Commissioning:**

Once the local customer has confirmed a station has been constructed in accordance with the design plan and permit conditions, the commissioning process fully engages. Commissioning includes certifying the dispenser for retail sale, confirming that the dispensed hydrogen fuel meets the SAE J 2719 quality standards, confirming that the station dispenses according to the SAE J 2601 fueling protocol, and confirming that the retail point of sale terminal is functional.

Stations being deployed feature familiar appearing dispensers, accept credit card payment, and dispense certified and metered hydrogen charged by the kilogram - the international unit for hydrogen sales.

**Station Fueling Protocol:** Before a station is approved for customer use, each automaker currently performs a series of fueling validation tests using its own test vehicles and engineers, with the station builder providing technical support personnel. The process requires multiple tests and has taken up to six months or more to complete for some stations.

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### Training Audiences who benefit from First Install sites

- ❖ 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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