



500 NM3

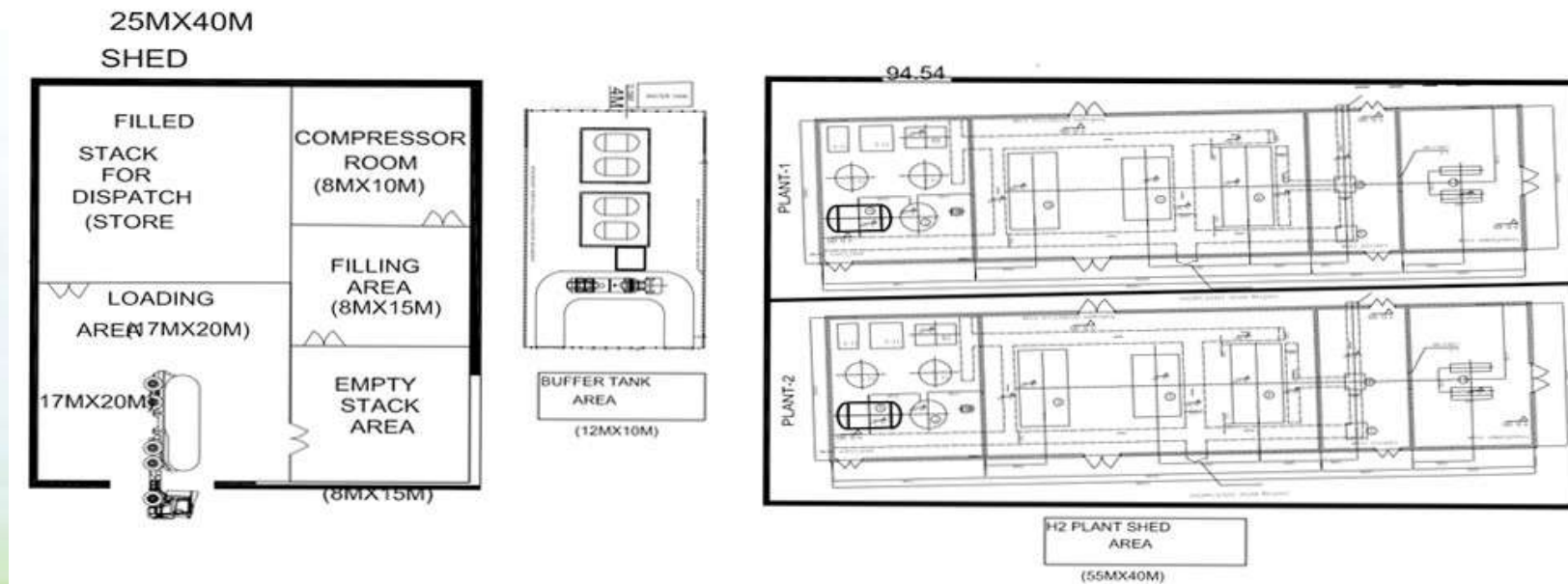
# GREEN HYDROGEN GENERATION PROJECT

GREEN HYDROGEN GENERATION PLANT BY BIO POLAR  
ELECTROLYSIS PROCESS



# LAND REQUIREMENT(30ACER)

For the Green Hydrogen Generation Project, a land requirement of 30 acres is crucial to accommodate the array of necessary equipment and facilities. This space will support the installation of electrolyzers, storage units, and energy generation systems, ensuring efficient hydrogen production. Additionally, it allows for future scalability and the integration of green energy sources, aligning with sustainability goals. The selected area will also facilitate safe operational practices and comply with environmental regulations, making it an ideal foundation for this innovative energy project.

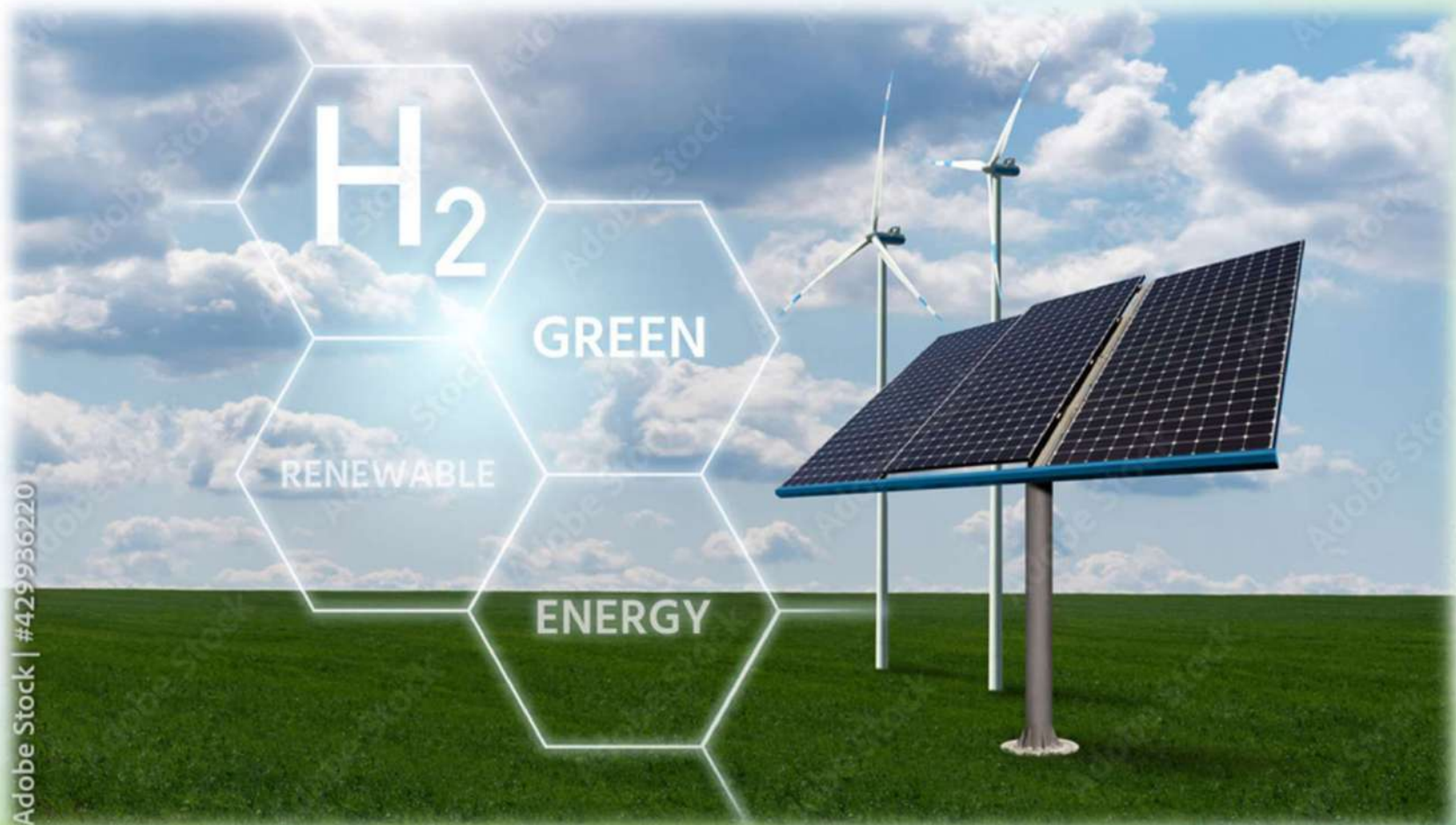




# GREEN ENERGY REQUIRED (15MW)



# HYDROGEN GENERATION SETUP



Adobe Stock | #429936220



PER NM3 – 5.6 KWH

# POWER CONSUMPTION (WIND/SOLAR)



# HYDROGEN GENERATION SETUP





# ATTRIBUTES

- Well Proven Electrolysis Technology
- Minimal space required & Negligible Maintenance
- Continuous Online Purity Check
- Low Generation Cost, Low Power Consumption.
- Once started it can be left un-attended.
- PLC Controlled & Requires No Operator's Attention
- Hydrogen Purity Up to 99.999% Achievable
- Remote monitoring and control already proven in many references.
- In case of any abnormality the Generator would trip automatically with Audio

# ATTRIBUTES

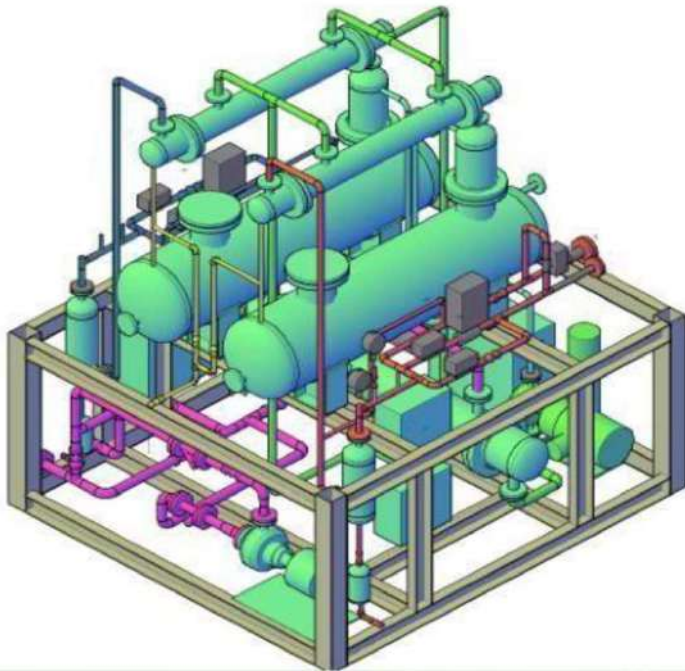
- Visual/Alarms for action.
- Skid-Mounted, Pre-commissioned at our works & almost ready to use. Plug n play in small sizes.
- Customized engineering and Ability to custom design our large Hydrogen generator plants to your specific requirements.
- Long-term commitment to R&D utilizing integrated, fully-functional pilot facility.
- When Storage Tank Get Filled the Gas Generator Goes to Sleep & restarts once the pressure in Tank reduces to set Limit.



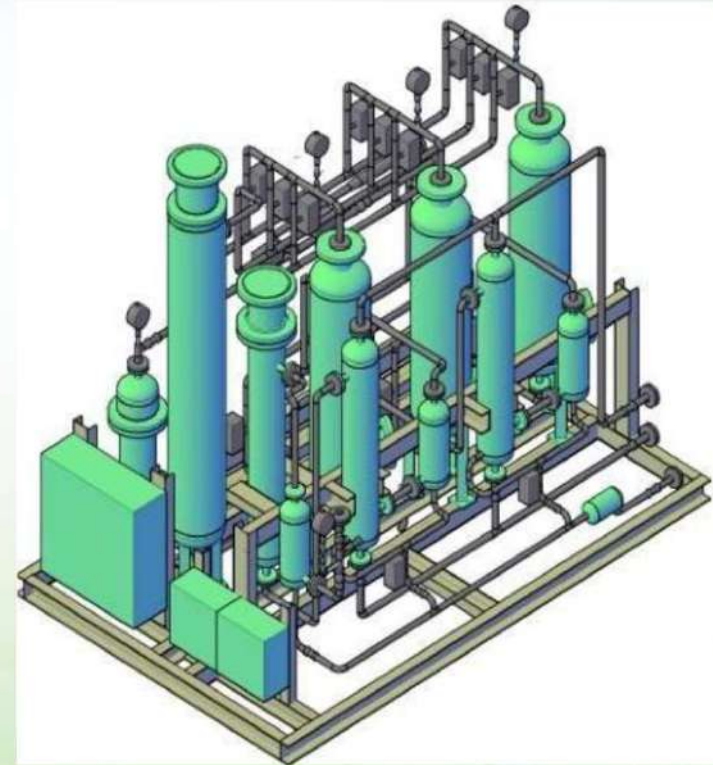
# GREEN HYDROGEN GENERATION PLANT SETUP IN BRIEF

- ✓ DM WATER TANK
- ✓ LYE TANK
- ✓ ELECTROLYZER
- ✓ H2 SEPERATOR / O2 SEPERATOR
- ✓ H2 CHILLER / O2 CHILLER
- ✓ H2 PURIFICATION PLANT / O2 PURIFICATION PLANT
- ✓ BUFFER TANK FOR H2 STORAGE
- ✓ COMPRESSOR
- ✓ SKID/ CASCADES
- ✓ PHE / COOLING TOWER

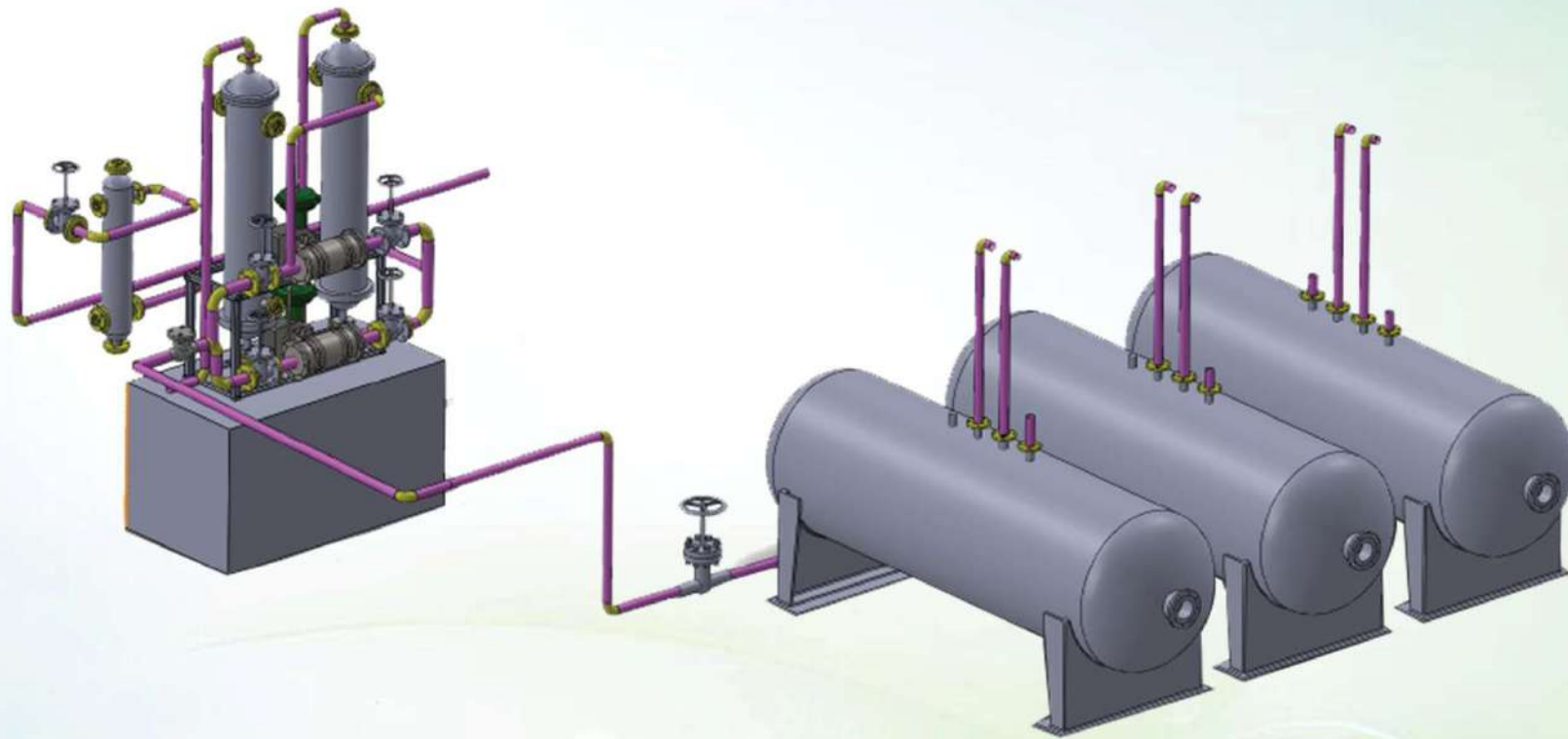
## H2 / O2 SEPARATOR



## H2 / O2 PURIFICATION PLANT







LEADER IN THE FIELD OF FABRICATION



## ADDRESS

OLGA EN FAB PRIVATE LIMITED  
Plot No. 4/1, Panchratna Industrial Estate,  
Near Rudra Estate, Opp PrimeTech Lane,  
Near Ramol Bridge, Ramol,  
Ahmedabad - 382445,  
Gujrat, INDIA.



## WEB/E-MAIL

[www.olgaenfab.com](http://www.olgaenfab.com)  
[info@olgaenfab.com](mailto:info@olgaenfab.com)



## UMESH NAIR

+91 92271 38000

## NIRAV R AMALSHEDA

+91 98250 14391







**OLGA EN FAB PVT LTD** is a government approved ,licensed by '**PESO**' ( **PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION**) for manufacturing of Pressure Vessels and Process Equipment's. From the start of our company, we have adhered to develop our own new technology, and have become leader in the field of fabrication of pressure vessels.

Our product range includes Export quality of Heat Exchangers, Receiver's, Storage tanks, Mechanical Vaporizer's, Storage Tanks and Various types of Processing Equipment's. We are one of the few companies in India to manufacture Pressure Vessels ( LPG / PROPANE TANKS ) under TUV India Agency. We are conversant with following codes – **ASME SECTION, IS – 2825, SMPV RULES 2016, API 650, TEMA.**

Our organization hold specialized in manufacturing a wide array of Propane Mounded Storage Tanks that find application in various industries.

Made with precision utilizing graded material, our array is high on durability, reliability and corrosion resistance. To attain maximum customer satisfaction, our goal is too obtainable in various specifications and at industry leading rates.

Being a Client conscious firm, we ensure that our range is rigorously tested by our quality controllers on numerous parameters before supplying it to our esteemed clients.

While taking Turkey Projects our expert team and experienced professionals puts in meticulous efforts in order to provide optimum quality products range as well as excellent customized services.

We also focus on services to our clients based on their time to requirements so they can rely on us with complete trust.

Our backend team keeps on working on with new innovation ideas and we keep updated to our existing clients on timely basis.

Our proactive approach to the technical issues enables customers to understand and implement cost-effective continuous solutions in Design Fabrication and Production Engineering. Our Engineering Team is expert in designing and manufacturing the Multi Effect Evaporator system. We keep on upgrading ourselves to ensure maximum cost-effective products so our clients should enjoy the outcome.

**FEW PRODUCTS / JOBS MANUFACTURED BY US**

