

Gölu Hydrogen Technologies Inc.

carbon negative hydrogen generation from renewable ethanol

THE VISION

Enabling widespread hydrogen adoption by simultaneously solving cost, distribution, and storage problems with compact, modular self-powered hydrogen production units

gölu-H₂

The SBI Group is a proven innovative clean technology provider since 1998. SBI successfully developed and licensed their proprietary renewable diesel, SAF (Jet Fuel) technology. Gölu is a spinoff from SBI group, focused on renewable hydrogen technologies.

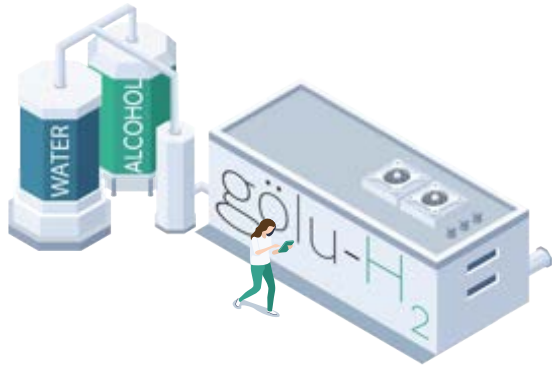
The Gölu solution uses a proven proprietary technology to generate carbon negative hydrogen from renewable inputs*. Gölu converts a mixture of ethanol / methanol and water into fuel cell grade renewable Hydrogen thermo- catalytically, without using electricity, or any external energy inputs.

Conventionally, H₂ is generated from Natural Gas, using Steam Methane Reforming (SMR) process. This is associated with high GHG emissions, comes from a non-renewable fossil resource, defeating the purpose of hydrogen as a clean fuel.

A different method, called Electrolysis, using renewable electricity to split the water molecule into hydrogen and oxygen. This process' drawbacks are low overall energy efficiency and, frequent maintenance, and high capital and operating costs.

**with selected options*

gölu-H₂



Unit Specifications*

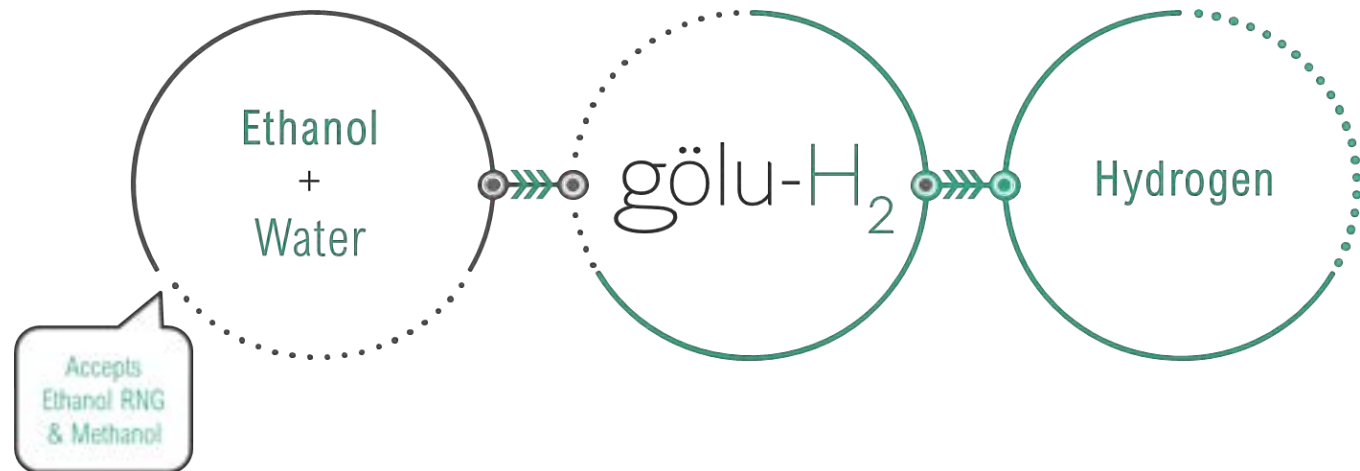
H ₂ Purity	99.999%
H ₂ Output	1,250Kg/day
Output Pressure	10 – 15 bars
Heat Output	10MW/day
Supports Fuel Cell	24MWH/day
Input - Ethanol	2,250 gallons/day
Input Water	2,083 gallons/day
Input Flexible	Ethanol/Methanol
Input Power	0.5 MWh/day
Footprint	40' x 8'

* Values may change depending on chosen configurations

Off-Grid Energy Solution

The Technology

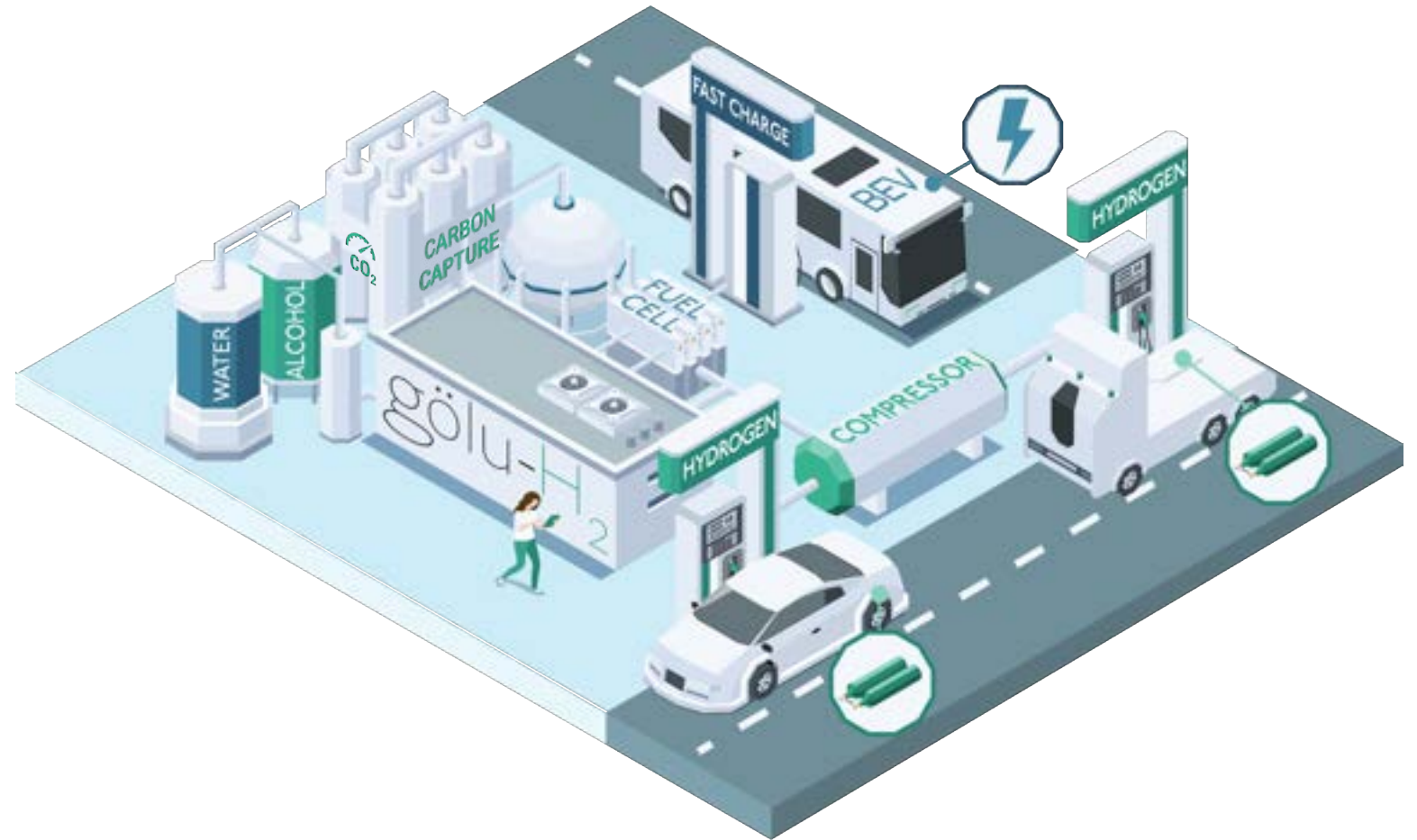
Gölu-H₂ is a unique, proprietary modular technology that converts a mixture of alcohols (ethanol/methanol) and water thermo-catalytically into clean carbon negative fuel cell grade hydrogen. Unlike an electrolyzer, hydrogen is extracted from alcohols and water equally, without using electricity.



gölu-H₂

Flex Energy Station

Off-Grid
On-Site Hydrogen
FCEV Refueling
EV Charging
Carbon Capture



gölu-H₂

Off-Grid Energy Solution

Robust system

Feedstock flexible

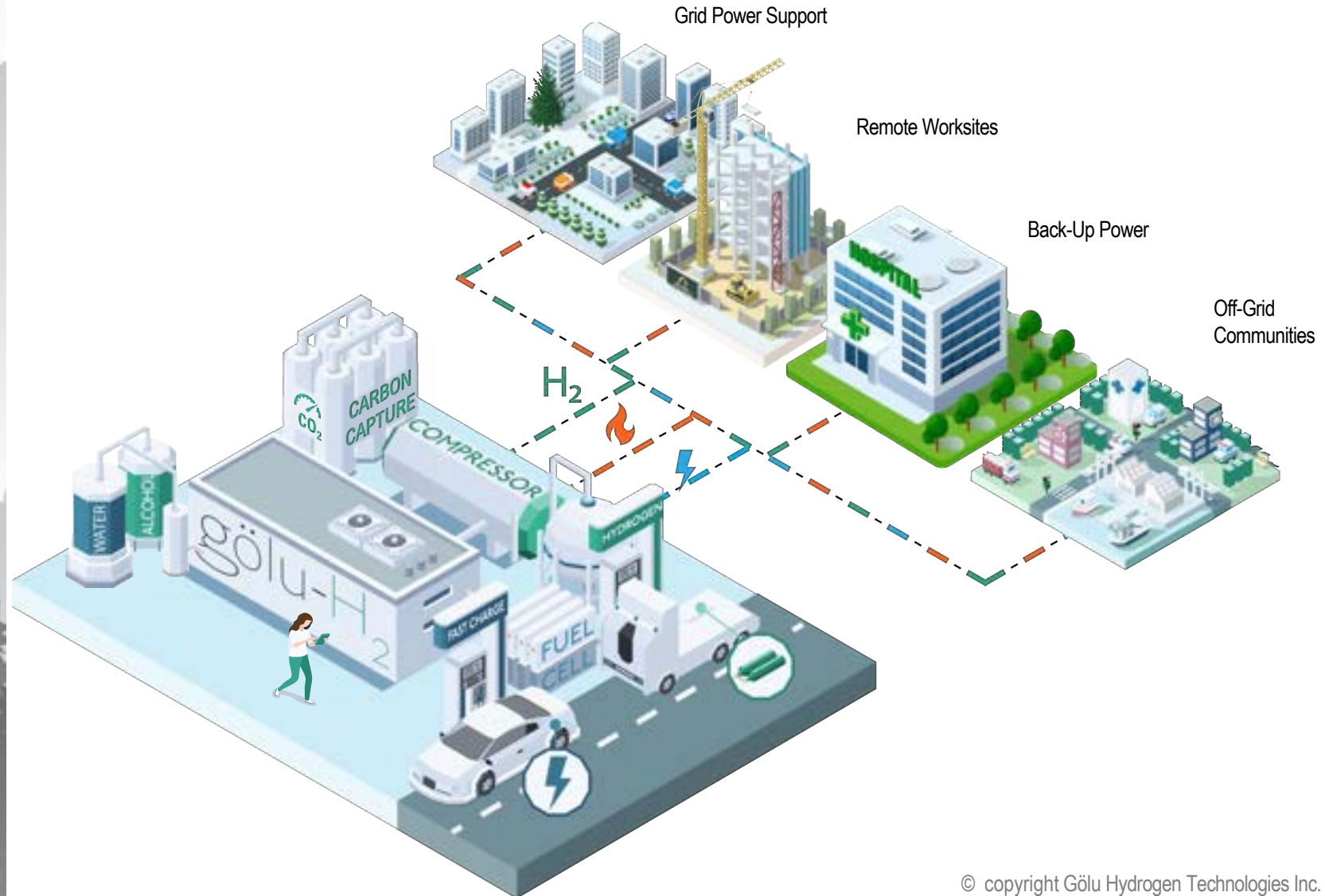
Carbon neutral or negative H₂

FCEV refueling

EV charging

Reliable clean energy

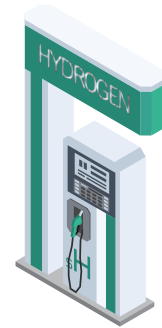
Carbon Capture



Optional Integrated Add-Ons

gölu-H₂ ADD-ONS

From industry-leading
OEMs for a variety of
applications



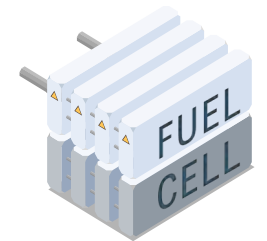
Fast H₂
Dispenser



Fast EV
Chargers



High & Low
Pressure
Compression



H₂ Fuel
Cell



Carbon Capture
Systems



CO₂ Liquification

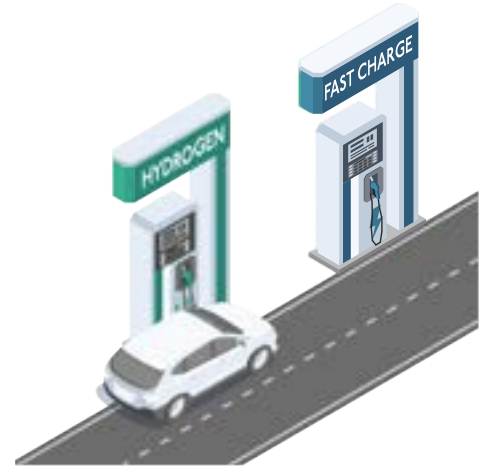


CO₂ To Dry Ice
Solidification

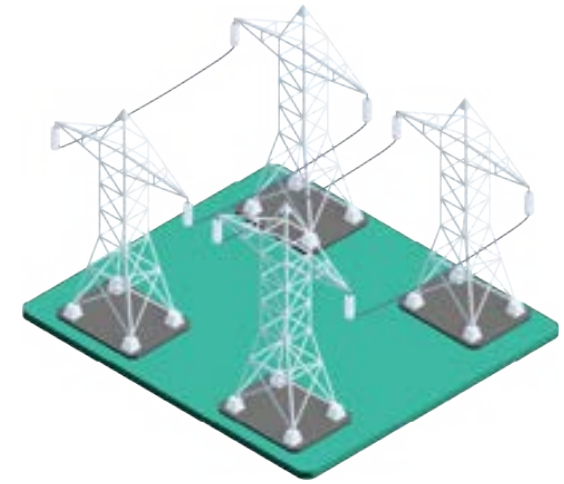
End-Use Applications

gölu-H₂
END-USE

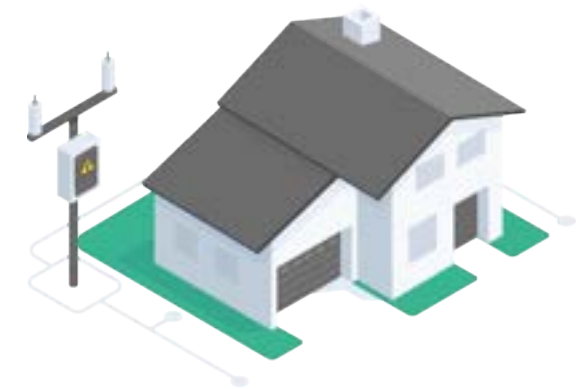
From industry-leading
OEMs for a variety of
applications



FCEV/BEV Stations



Grid/Micro-Grid Power



District Heating

gölu-H₂

GREEN H₂ AS A SERVICE



TURNKEY Solutions

Green-Hydrogen-as-a-Service projects for energy, transport, utility, and industrial clients globally, combining Gölu-H₂ Tech, Finance, and Operations in a Turn-Key Solution with zero up-front costs.*

Package 1

Gölu-H₂ Generator comes funded, maintained and insured at Zero-Cost up-front for the client**.

Client owns and operates Gölu-H₂ Generator. Client retains all H₂ revenue including credits and pays a fixed monthly Green H₂ Fuel-as-a-Service Fee for a set term, which may be recovered by a range of associated H₂ Credits, Carbon Credits, and Subsidies generated by the Project.

Package 2

Gölu-H₂ Delivers Green Hydrogen Fuel On-Site

Gölu-H₂ Generator comes Funded, Owned and Operated by Gölu's associates, delivers Green H₂ Fuel on-site to power client operations or to be sold into the market. Client pays Zero-Up Front and enters a Green H₂ Fuel Purchase Agreement.

**conditions apply*

***In collaboration with Propeller CO2, an EaaS Platform for Green Hydrogen*

© copyright Gölu Hydrogen Technologies Inc.

gölu-H₂

Bob Nutcher

CEO

925-890-2650

bob@nutcherhydrogen.com

