

DECARBONIZING GLOBAL INDUSTRY & TRANSPORT

THE SOLUTION IS SGH2 ENERGY'S
CLEAN HYDROGEN

SG H2 ENERGY

FUELING A CLEAN ENERGY
FUTURE, TODAY

The global clean hydrogen demand cannot be met with electrolysis alone. Experts from public and private sectors agree that other alternatives are needed.

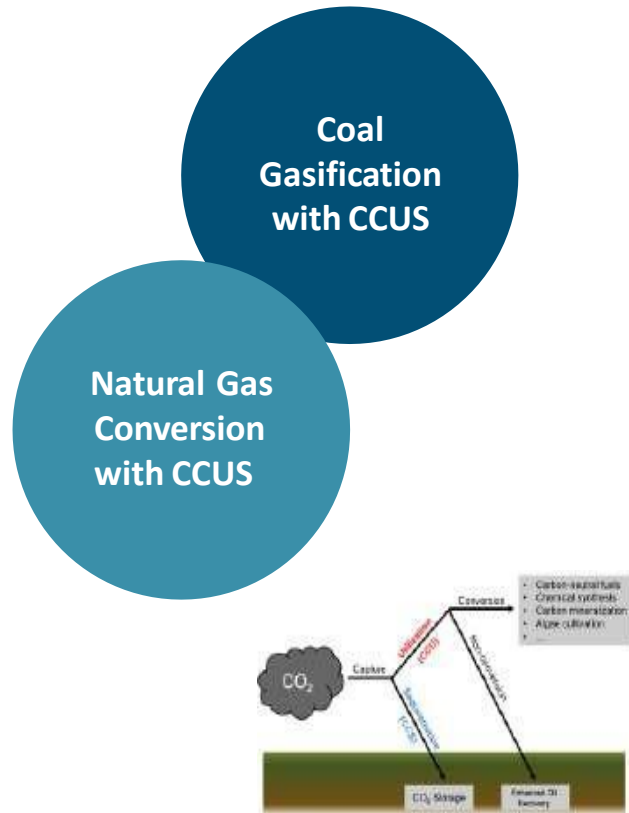
- Affordable, mass-produced, green hydrogen is the missing link needed to decarbonize the world – with the power and potential to remove or reduce carbon from hard-to-abate sectors like heavy transport, shipping, steel and cement, and reduce the use of natural gas throughout our global economy.
- Not all hydrogen is equal.
- 98% of the world's hydrogen is currently produced using coal (brown hydrogen) or natural gas (grey hydrogen)



THE CHALLENGE: SCALING CLEAN, GREEN HYDROGEN

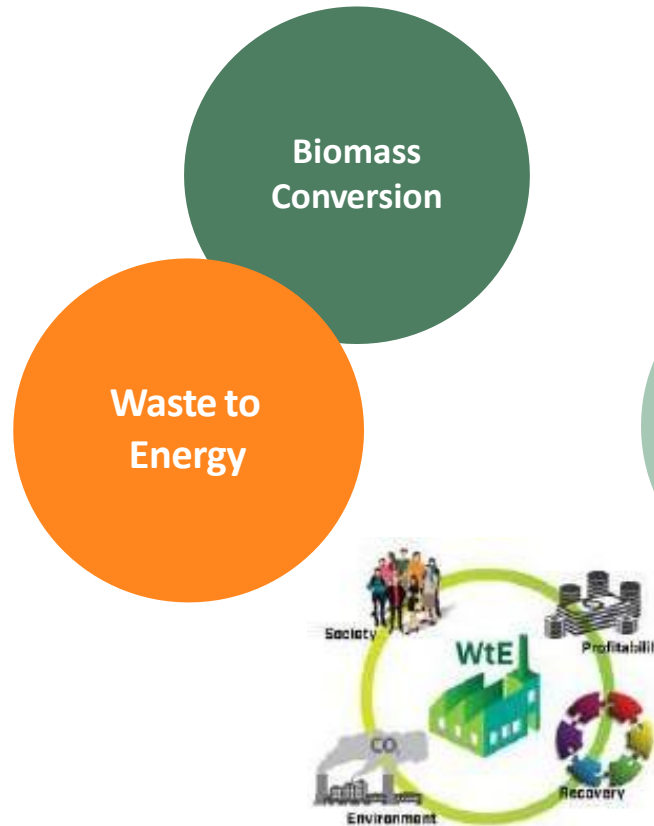
FOSSIL RESOURCES

- Low-cost large-scale hydrogen production with CCUS
- New options include byproducts production such as solid carbon
 - ❖ Expensive; Not carbon free.



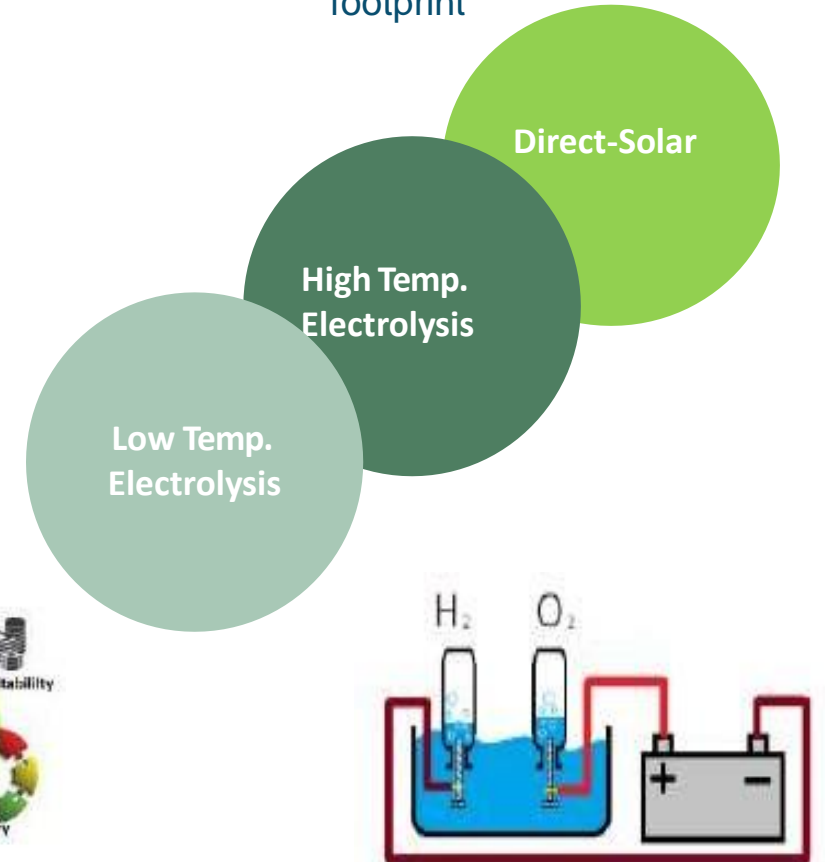
BIOMASS/WASTE

- Options includes biogas reforming & fermentation of waste streams
- By-product benefits include clean water, electricity and chemicals
 - ❖ All except SGH₂: Toxic byproducts; Not carbon free



WATER SPLITTING

- Electrolysers can be grid tied, or directly coupled with renewables
- New direct water splitting options offer long-term sustainable hydrogen
 - ❖ Expensive; Large land and water footprint



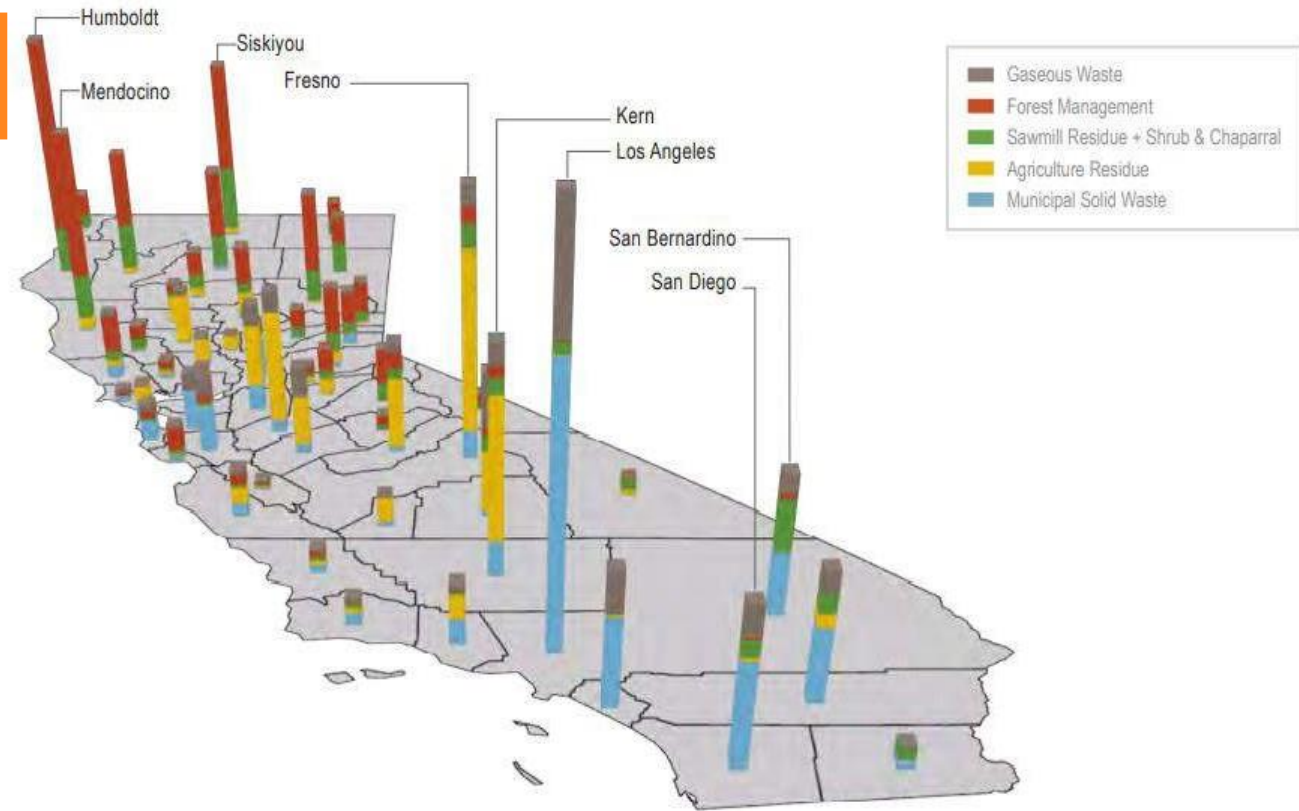
SGH2 GROWTH POTENTIAL IN THE STATE OF CALIFORNIA



56 MILLION TONS OF BIOMASS WASTE WILL BE GENERATED IN 2045

Biomass Type	2025 Amount (M BDT / yr)	2045 Amount (M BDT / yr)
Agricultural residues	10,4	12,7
Municipal Solid Waste	12,3	13
Gaseous Waste	7,1	6,1
Forest Biomass	24	24
Total	54	56

BDT = bone dry metric tons



California's extensive and varied waste biomass resources could yield approximately 100 million tons of negative emissions per year in 2045 if all the carbon converted to CO₂ is captured and stored.

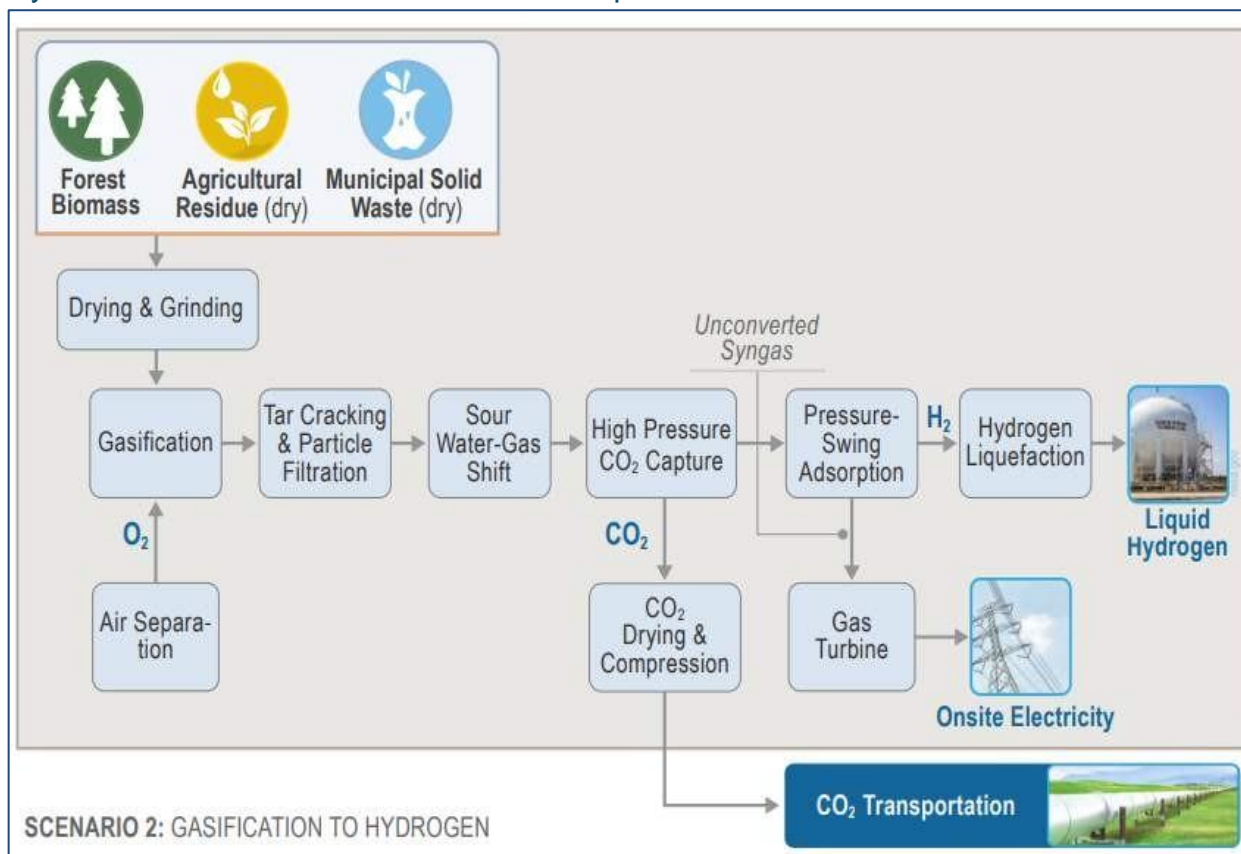
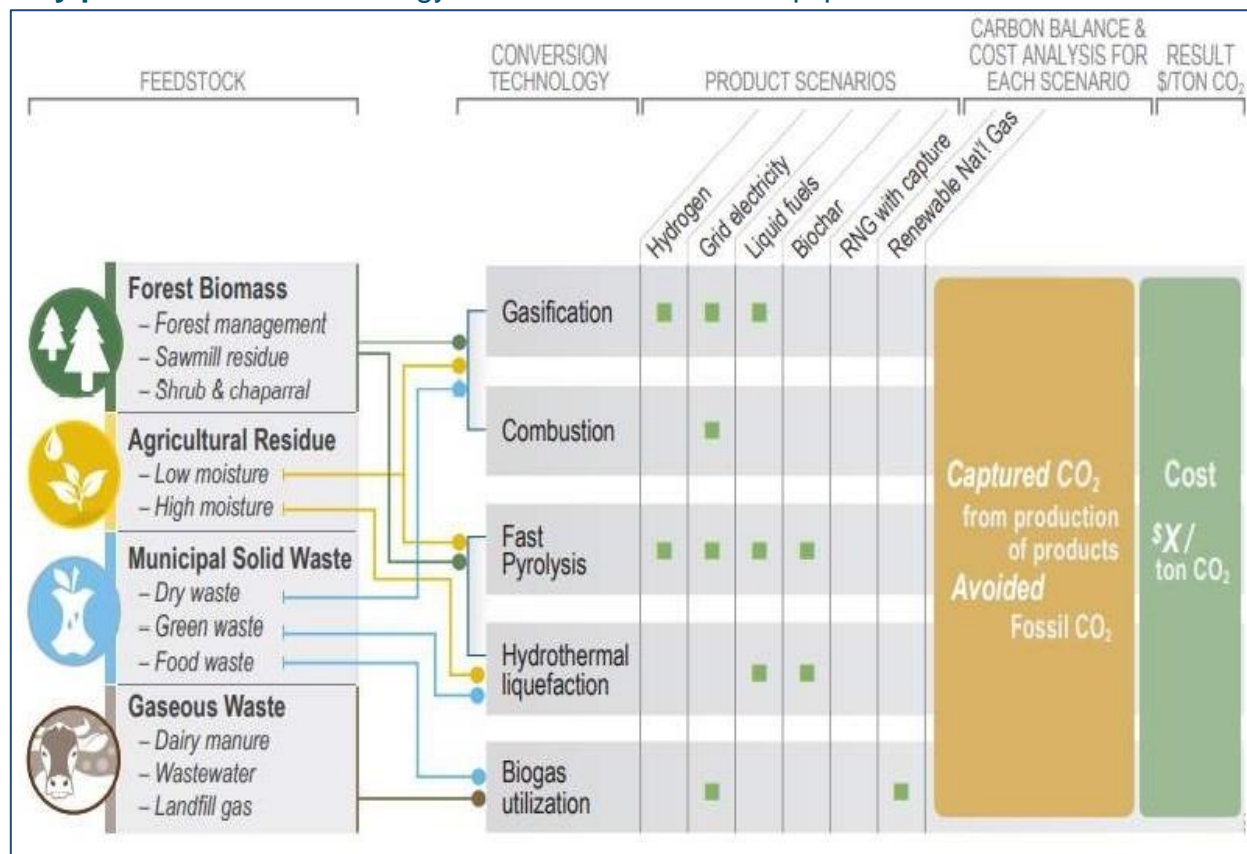
The total municipal solid waste projected to be available in the years 2025 and 2045 is 12.3 and 13 million bone dry tons per year. The majority of municipal solid waste biomass in 2045 is projected to be in Southern California (8.2 million bone dry tons per year), with 4.8 million bone dry tons per year in Northern California.

SGH2 SPEG Technology easily works with all types of feedstock

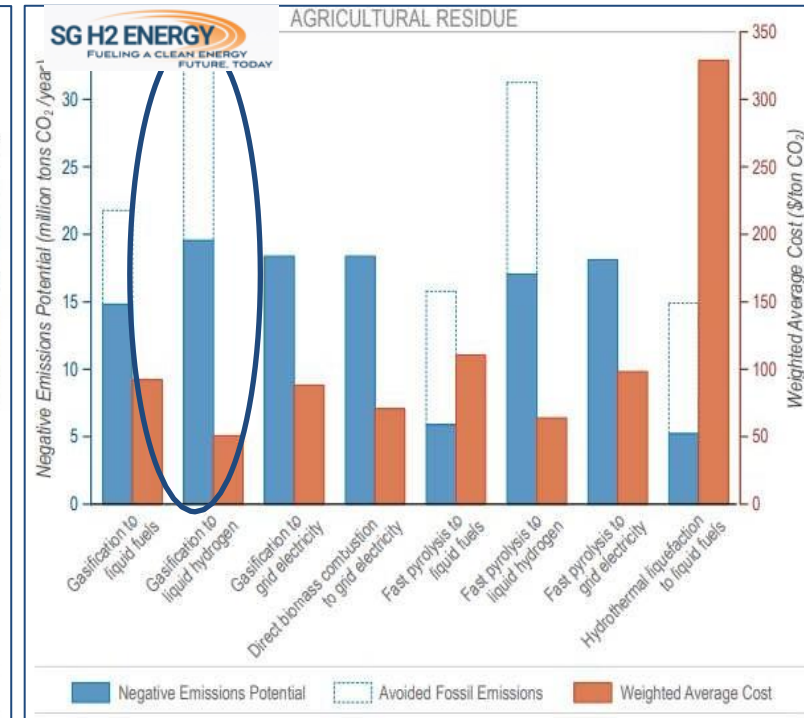
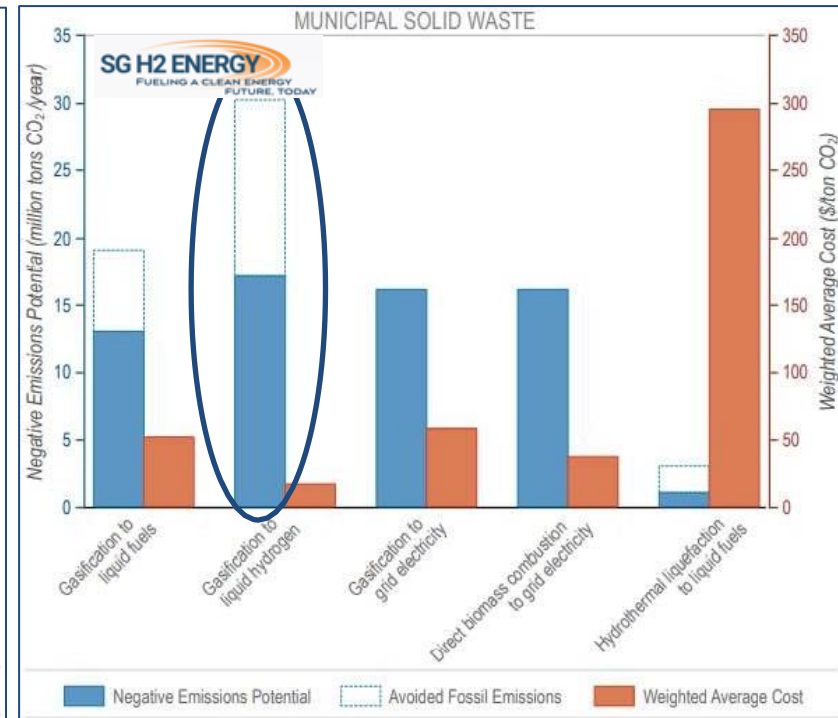
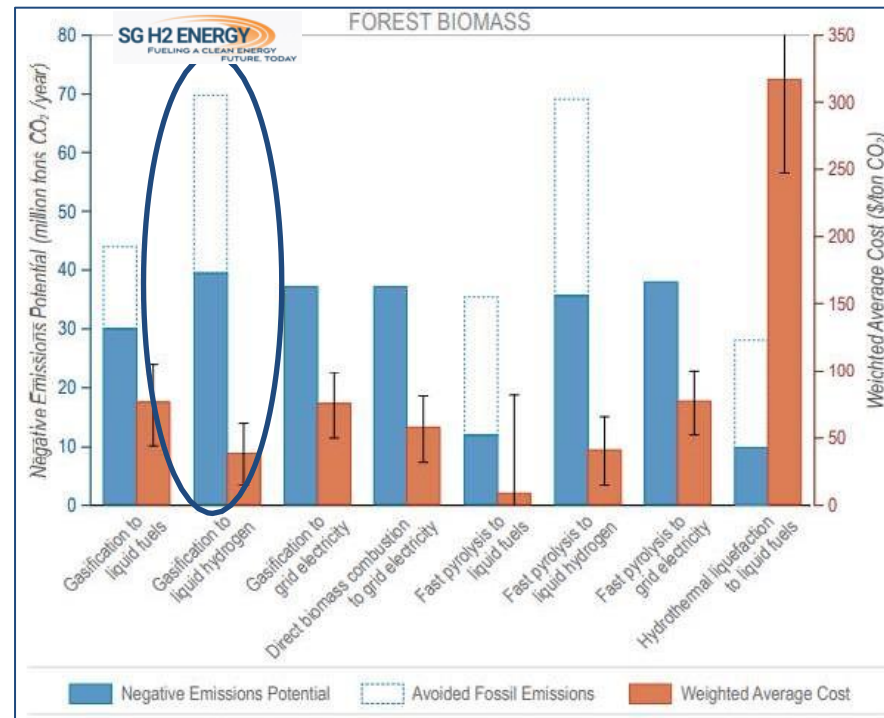
Feedstock: forest biomass, low moisture agricultural residues, dry municipal solid waste

Potential products: liquid fuels: green methanol, SAF, and green ammonia, hydrogen. Hydrogen further can be converted to Renewable Natural Gas (RNG) or use directly in stationary fuel cell power plant to produce baseload power.

Key points: SPEG technology at TRL8 and all other equipment are commercial industrial systems. Addition of CCS unit will allow capture CO2 and further



Negative emissions potential, avoided fossil emissions, and estimated cost to capture CO₂ for each type of feedstock, calculated for the year 2045



CLEAN:
CARBON
NEGATIVE
HYDROGEN

SG H2 ENERGY
FUELING A CLEAN ENERGY
FUTURE, TODAY



THIS IS ROCKET SCIENCE

www.SGH2Energy.com



SGH2 TECHNOLOGY

SGH2 Energy Global Corporation (“SGH2”)’s proprietary Solena Plasma Enhanced Gasification (SPEG) technology produces clean carbon negative hydrogen from any kind of waste – from paper to plastics, tires to textiles - with zero emissions and toxic byproducts.

SPEG is based on the Plasma Technology developed by US NASA for testing heat shield material, which protects Space Ships/Astronauts against the extreme heat of re-entry into the Earth's Atmosphere.

Our technology changes the game, and the world, solving two global crises: climate change and waste pollution.

Our clean carbon negative hydrogen is cost competitive with the cheapest, dirtiest fossil fuel derived hydrogen on the market

SGH2, headquartered in Washington DC, develops, builds, owns and operates this technology, with projects underway worldwide.



SGH2 GREENER THAN GREEN HYDROGEN

Proprietary state-of-the-art Solena Plasma Enhanced Gasifier (SPEG) technology successfully demonstrated at a full-size project in US and torch facility in Czech Republic

Avoids more carbon emissions than other hydrogen



- Lawrence Berkeley National Lab and Life Cycle Associates group have determined that our process' carbon intensity goes up to - 180 gCO₂eq/MJ of H₂, compared to 0 gCO₂eq/MJ from electrolysis hydrogen. Further, it is guaranteeing the highest amount of production tax credit per kg of hydrogen. "Section 45V of IRA".
- Our process is designed to be Zero Liquid Discharge and it does not release any toxic emissions or effluents.
- Our Levelized Cost of Hydrogen (LCOH) is determined to be US\$2 per kg of hydrogen, which is competitive with grey hydrogen produced from SMR using natural gas.

HYDROGEN: MORE CARBON REDUCTION AND LESS COST

	HYDROGEN TYPES	CARBON INTENSITY (gCO ₂ eq/MJ)	PRODUCTION \$/Kg H ₂
GREEN HYDROGEN	SGH ₂ Greener than green Hydrogen	Depending on the feedstock, it can be up to -180 gCO ₂ eq/MJ (less than 0 Kg of CO ₂ per Kg of H ₂)	\$2-\$3
	Green Hydrogen (Electrolysis)	0 gCO ₂ eq/MJ	\$6 - \$8
HYDROGEN FROM FOSSIL FUELS	Grey Hydrogen from NatGas	+12 KgCO ₂ /KgH ₂	\$2-\$6 (cost of natural gas)
	Brown Hydrogen from Gasification of Coal	+20 KgCO ₂ /KgH ₂	\$2 - \$3
BLUE HYDROGEN WITH CARBON CAPTURE & SEQUESTRATION	Grey Hydrogen	+12 KgCO ₂ / KgH ₂ with CCS	\$4 - \$8
	Brown Hydrogen	+20 KgCO ₂ /KgH ₂ with CCS	\$4 -\$5

SGH2 CLEANER & CHEAPER THAN GREEN HYDROGEN BY ELECTROLYSIS

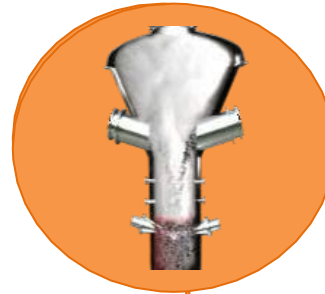
Per 4,550 tons Clean H2 Per Year

		SGH2 CLEAN HYDROGEN	ELECTROLYSIS
Water 		20,000 m ³ /year	57,000 m ³ /year
Electricity 		36,000 MWh /year	273,000 MWh /year
Cost 		\$2 - \$3 /Kg H2	\$5-\$7 /Kg H2
Waste Avoided 		- 42,000 ton /year	
Plot Space 		5 acres	300 acres / solar panels
Carbon Intensity 		Up to - 180 gCO ₂ e/ MJ	0 gCO ₂ e/ MJ

SPEG TECHNOLOGY PROCESS



The feedstock is delivered into a specialized compactor / extruder with nitrogen blanketing and fed continuously into the gasifier.



Clean Hydrogen

The syngas then goes into the water gas shift, before entering the Pressure Swing Absorber system, resulting in 99.99% pure hydrogen. Our process extracts all carbon from the waste feedstock, removes all particulates and acid gases, and produces no toxins or pollutants.



Cement



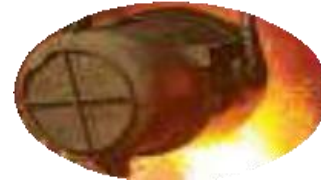
Natural Gas Distribution



Mobility



Ammonia



Iron & Steel



Oil Refinery



The feedstock is delivered to the Gasification facility by the recycling Company, the waste management company or biomass handling company already sorted, shredded and baled.

Syngas Production

Feedstock goes through a Plasma Enhanced Single Stage Gasifier that is a fixed bed counter current gasification process that utilizes plasma torch heat and oxygen enriched air as an oxidant to convert the waste materials into a hydrogen rich synthetic gas.



SPEG TECHNOLOGY

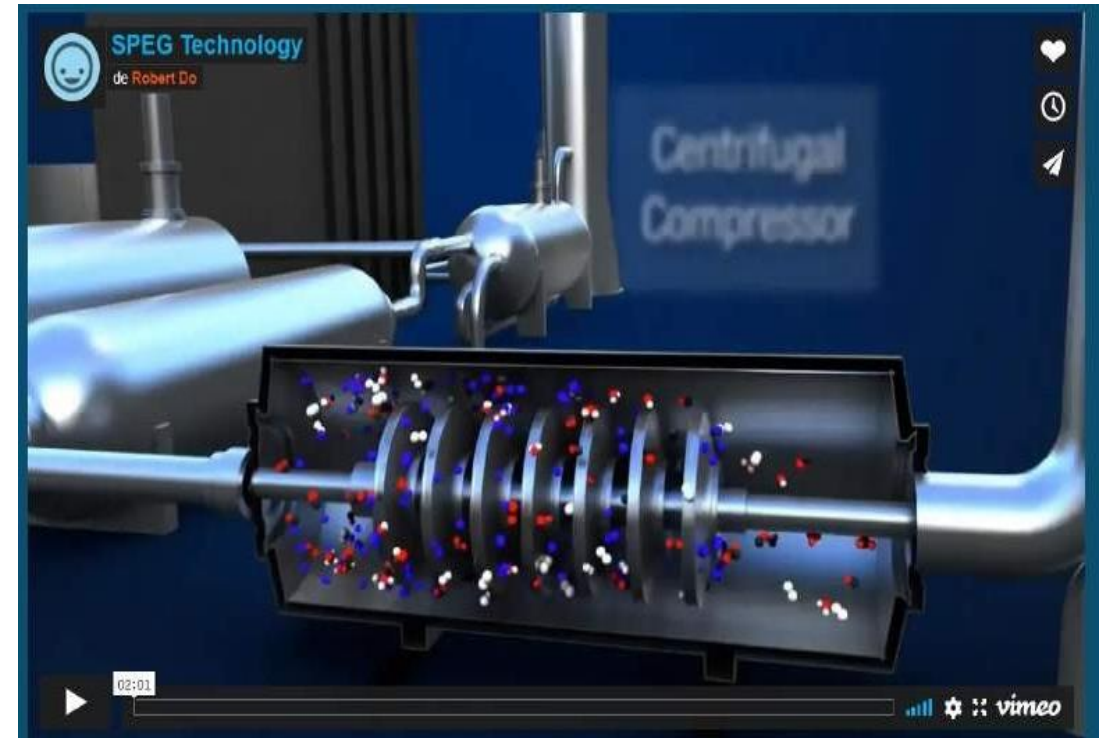
SGH2's unique gasification process uses a plasma-enhanced thermal catalytic conversion process optimized with oxygen-enriched gas. In the gasification island's catalyst-bed chamber, plasma torches generate such high temperatures (3500°-4000° C), that the waste feedstock disintegrates into its molecular compounds, without combustion ash or toxic fly ash.

As the gases exit the catalyst-bed chamber, the molecules bond into a very high-quality hydrogen-rich bio-syngas free of tar, soot and heavy metals. The syngas then goes through a water gas shift reactor before being fed into the Pressure Swing Absorber system resulting in hydrogen purity greater than 99.97% as required per the SAE-J2719 standard for use in Proton Exchange Membrane fuel cell vehicles.

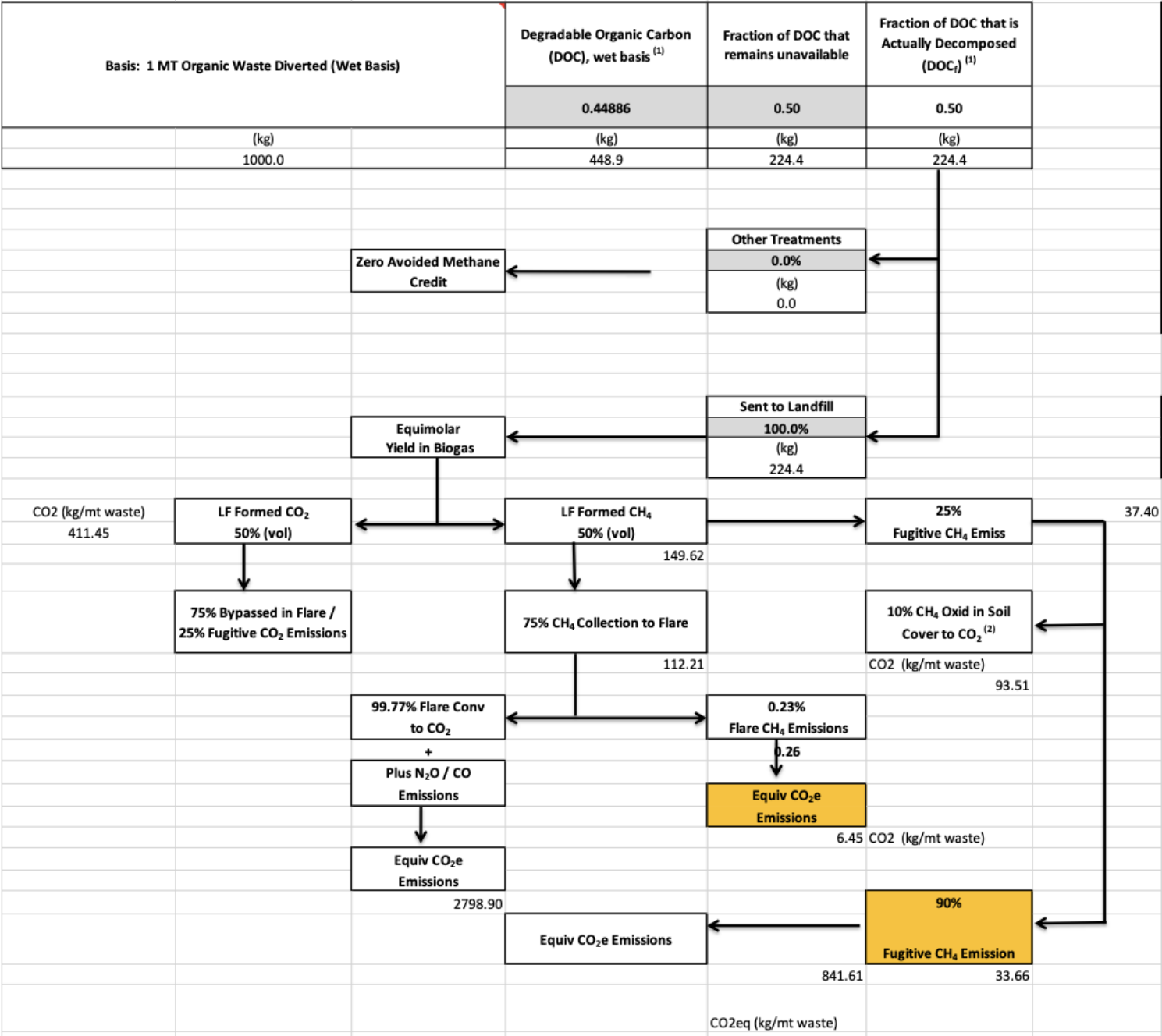
The process extracts all carbon from the waste feedstock, removes all particulates and acid gases, and produces no toxins or pollution. The end result is high purity hydrogen and a biogenic CO₂, which can be further captured with our CCS system to produce a carbon negative hydrogen.

"Gasification" is the process of "partial-oxidation" (in contrast to combustion/burning which is "complete oxidation") of the waste biomass feedstock thus eliminating the polluting emissions of incinerator flue gases such as SO_x, NO_x, PMs and Dioxins / furans.

SPEG Technology Explained



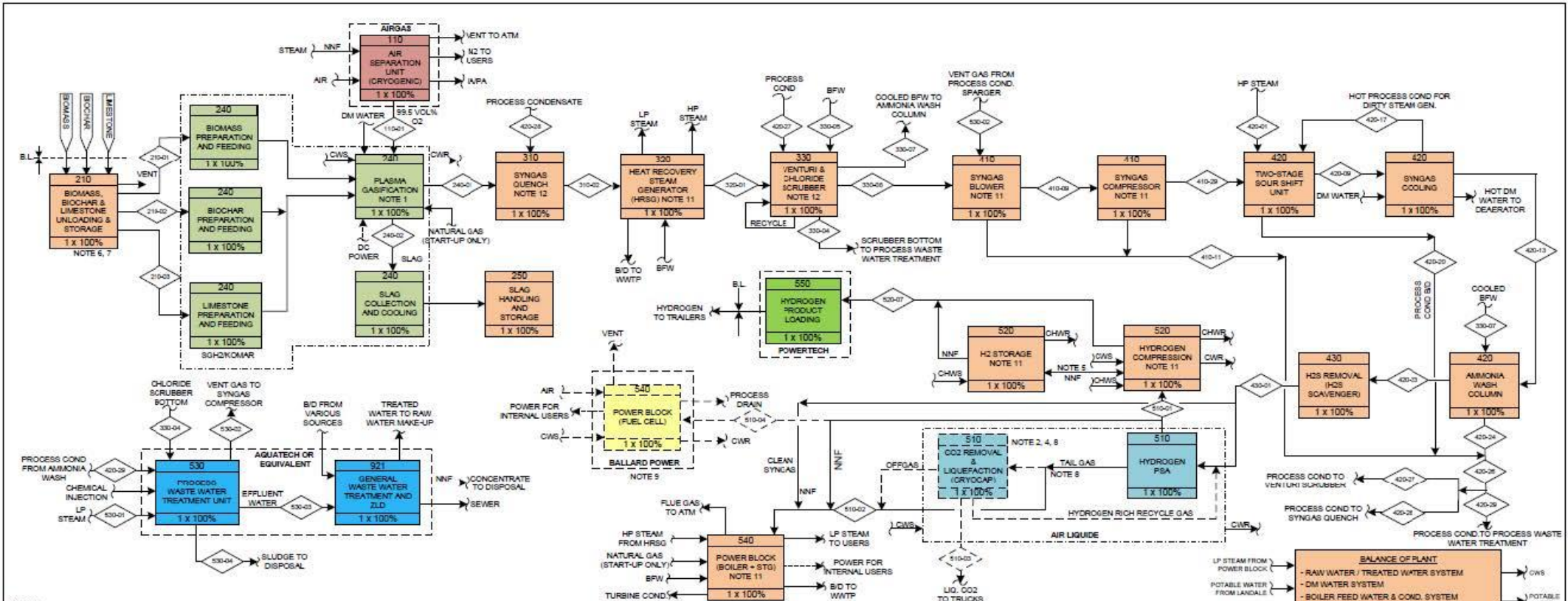
<https://vimeo.com/411145543>



13.1 tpd RH2 - Capture & Flare @75%

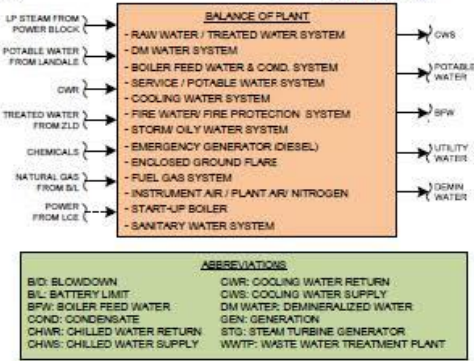
Parameter	Value	Unit
CH4 concentration in LFG (by volume)	50%	
CO2 concentration in LFG (by volume)	50%	
Methane correction factor (MCF) for managed anaerobic landfill	1.00	
landfill gas (LFG) generated	224.4	kg LFG / m.t. wet OW
CO2 generation from landfill	411.45	kgCO2 / m.t. wet OW
CH4 generation from landfill	149.62	kgCH4 / m.t. wet OW
CO2 generation from CH4 capture & flare	2892.41	kgCO2e / m.t. wet OW
Non-captured CH4 from LFG	37.40	kg CH4/m.t. wet OW
Fugitive CH4 from LFG	33.92	kg CH4/m.t. wet OW
CO2 from fugitive CH4 emissions from LFG	848.06	kg CO2e/m.t. wet OW
Credit from Avoided CH4 Emissions from Landfill	-848	kgCO2e/m.t. wet OW
Total Credit	(35,618)	tonnes CO2e
Total Credit per tonne H2	-7.77	tonnes CO2e / m.t. RH2
CI from LFG emission avoidance	-64.74	gCO2e/MJ H2

note		Characterized feedstock per	Uncharacteized feedstock per CARB			Uncharacteized feedstock per CARB & Using IPCC data	
a	Basis for DOCf	Case 1 : Paper contained in MSW	Case 2 : Mixed paper (MP)	Case 3 : MP with low CI for Power & Transport	Case 4 : IPCC GWP = 25	Case 5 : IPCC GWP = 80	
b	DOCf value	0.37	0.50	0.50	0.77	0.77	
c	GWP value	25	25	25	25	80	
TIER - 1 based Carbon Intensity							
d	Landfill Gas Avoidance	-47.91	-64.74	-64.74	-99.70	-319.03	
e	Carbon Capture & Sequestration	-127.00	-127.00	-127.00	-127.00	-127.00	
Other emissions							
f	Feedstock transport	0.49	0.49	0.00	0.49	0.49	
g	SGH2 related emissions (power)	9.94	9.94	0.00	9.94	9.94	
g	CO2 compression (power)	0.00	0.00	0.00	0.00	0.00	
h	H2 transport	7.21	7.21	0.00	7.21	7.21	
h	H2 distribution : compression & pre-cooling	11.04	11.04	11.04	11.04	11.04	
Total Project Carbon Intensity Results							
	Total Project CI (gCO2/MJ H2)	-146.23	-163.06	-180.70	-198.02	-417.35	
	Likelihood to be accepted by CARB	Unlikely	Possible	Base Case	Unlikely	Very unlikely	



NOTES:

1. RAW SYNGAS WILL BE AVAILABLE AT THE BL FROM THE SGH2 LICENSED PLASMA GASIFICATION UNIT.
2. RECOVERY OF HYDROGEN ACROSS PSA UNIT IS CONSIDERED AS 95% AND 99.97% H2 PURITY. AFTER CRYOCAP INSTALLATION DURING FUTURE OPERATION, H2 RECOVERY IS CONSIDERED AS 98%. TO BE CONFIRMED UPON RECEIPT OF AIR LIQUIDE DATA.
3. ALL COMPRESSOR INTER-COOLING IS BY AIR COOLERS.
4. UTILITY REQUIREMENTS IN CRYOCAP H2 UNIT TO BE CONFIRMED UPON RECEIPT OF AIR LIQUIDE DATA.
5. ONE CONNECTION FROM VARIOUS STAGES OF H2 COMPRESSOR TO STORAGE IS PROVIDED. SAME CONNECTION WILL ALSO BE USED FOR H2 DRAW OFF FROM STORAGE TO VARIOUS STAGES OF H2 COMPRESSOR FOR TRAILER LOADING.
6. BIOMASS WILL BE RECEIVED VIA TRUCKS AT THE UNLOADING STATION IN THE FORM OF BALES. FROM UNLOADING STATION THE BALES WILL BE TRANSPORTED TO EITHER BIOMASS STORAGE OR TO FEED PREPARATION AREA (240) VIA FRONT END LOADERS. RANDOM BIOMASS FEEDSTOCK SAMPLING WILL BE PERFORMED FOR QUALITY CONTROL PURPOSES.
7. BIOCHAR & LIMESTONE WILL BE RECEIVED IN SUPER-SACKS. UNLOADING AND STORAGE WILL BE HANDLED MANUALLY BY FORKLIFTS. SUPER-SACKS WILL BE STORED IN THE SAME BUILDING AS THE BIOMASS STORAGE. BIOCHAR AND LIMESTONE CONVEYING AND TRANSFER TO GASIFIER FEEDING AREA WILL ALSO BE HANDLED BY FORKLIFT.
8. CO2 REMOVAL & LIQUEFACTION (CRYOCAP) INSTALLATION IS DEFERRED TO NEXT PHASE PENDING CO2 FF-TAKE, HENCE PSA TAIL GAS WILL BE DIRECTLY ROUTED TO THE POWER BLOCK.
9. FUEL CELL INSTALLATION DEFERRED TO NEXT PHASE.
10. ASIDE FROM THE UNIT SCOPES DEPICTED, SUPPORT WILL BE ENGAGED WITH DUKE ENGINEERING FOR CSA SCOPE, ABB FOR OSBL E&C#1 SCOPE, AND GS ENGINEERING AND CONSTRUCTION CORP. (GS E&C) FOR POTENTIAL MODULARIZATION SCOPE.
11. PACKAGE DUTY SPECIFICATIONS/ DATASHEETS, ENGINEERING SPECIFICATIONS AND STANDARDS, REVIEW AND OVERALL OWNERSHIP BY FLUOR. DESIGN, ENGINEERING AND SUPPLY OF PACKAGE AS SKID MOUNTED/MODULAR SYSTEM BY BRADTCO.
12. DESIGN AND ENGINEERING BY FLUOR. EQUIPMENT SUPPLY BY BRADTCO.



REV	DATE	REFERENCE DWG NUMBER	BY	CHK	APPV	APPV
A	18-MAY-22	ISSUED FOR INTERNAL REVIEW	MNK	KS	RR	
0	23-MAY-22	ISSUED FOR CLIENT REVIEW	KS	MNK	RR	
1	08-JUN-22	RE-ISSUED FOR CLIENT REVIEW	KS	MNK	RR	
2	16-JUN-22	ISSUED FOR CEQA APPLICATION	KS/AH	MNK	RR	
3	30-JUN-22	ISSUED FOR FEL-2	KS/SB	MNK	RR	
4	19-JUL-22	ISSUED FOR DESIGN	KS/SB	MNK	RR	

REV	DATE	REFERENCE DWG NUMBER	BY	CHK	APPV	APPV
4A	22-JUL-22	RE-ISSUED FOR DESIGN	SJB	OS	NK	
4B	05-AUG-22	RE-ISSUED FOR DESIGN	KS	SS	NK	



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CONTRACT	DESIGNED BY	APP DATE
ABXG-000-225-BFD-001	KS	
	CHECKED BY	APP DATE
	RR	
	LEAD ENG. SPEC.	APP DATE
	FLUOR	APP DATE
	CLIENT	APP DATE

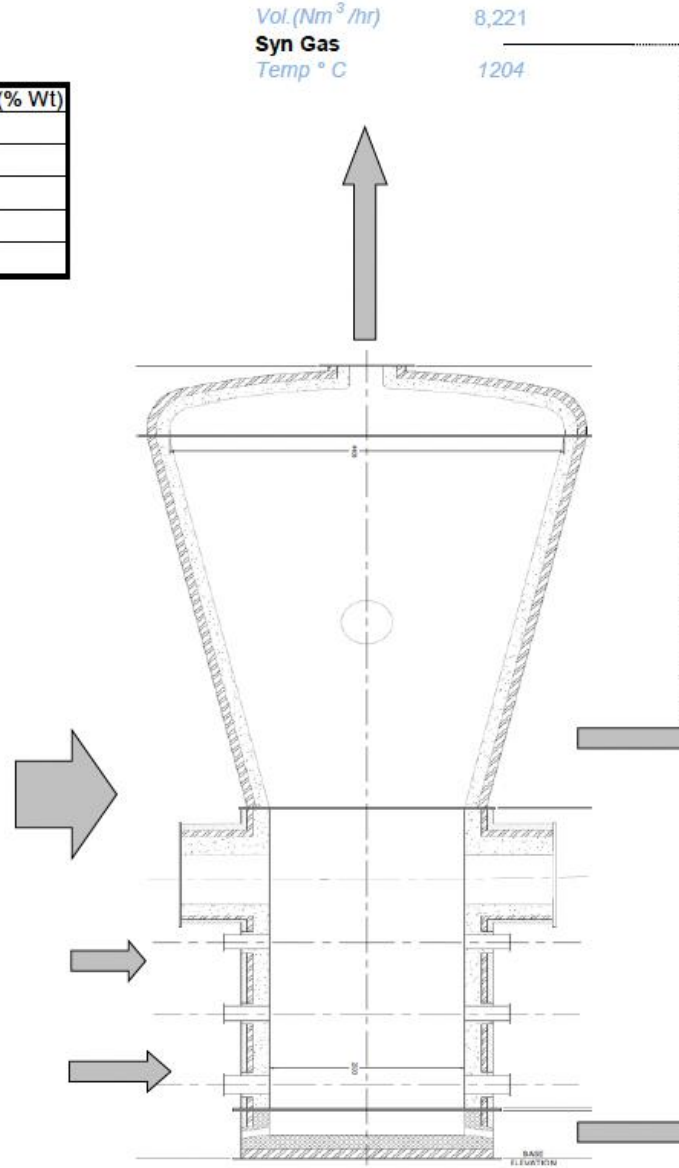
SGH2 LANCASTER BIOMASS TO RENEWABLE HYDROGEN PROJECT		REV
BLOCK FLOW DIAGRAM		4B
SCALE	DRAWING NUMBER	
NONE	ABXG-000-225-BFD-001	

Waste Paper Composition (% Wt)	
Volatile Matter	80.08
Fixed Carbon	8.53
Inert	1.54
Moisture	9.85
Tot	100.00

Vol. (Nm³ /hr) 8,221
Syn Gas
 Temp ° C 1204

Syn Gas Composition (gas only)		
Constituent	Weight %	Volume %
CO	66.70%	49.05%
CO ₂	18.26%	8.55%
H ₂	2.89%	29.49%
N ₂	2.13%	1.56%
H ₂ S	0.04%	0.02%
H ₂ O	9.83%	11.24%
Ar	0.15%	0.08%
HCN	0.00%	0.00%
COS	0.00%	0.00%
CH ₄	0.00%	0.00%
HCl	0.00%	0.00%
Total	100.00%	100.00%
	kcal/kg	MJ/kg
HHV	2647	11.08
LHV	2439	10.20

	Power Input MW (LHV)	Mass Input kg/hr
Feedstock	22.9	5000
Fluxing agent Catalyst	2.0	50 250
Enriched Air		2214
Thermal Plasma Torch Temp ° C	0.8	182
Total	25.7	7696



Mass Output kg/hr	Power Output MW (LHV)	
	4.1	SynGas Sensible
7553	21.4	SynGas Chemical Syngas
	0.7	Heat Losses incl. CW interfaces
142	0.2	Slag Slag sensible
7694	26.4	Total

STRATEGIC PARTNERS

Feedstock

Syngas



Feedstock

Gasification
island

Process Integration and
Balance of Plants

H2 Production

Hydrogen Off taker

Performance
Guarantees

The municipality and/or



ALLAN COMPANY



FLUOR



ABB



Global leaders in
O&G and industrial
gases

Munich RE 



**SGH2
LANCASTER:
BEST IN CLASS
CONSORTIUM**

Lancaster City
US Senate & Congress (CA)
SGH2 Energy
Iwatani
Fluor
Stork
ABB
Marubeni
Chart Industries
Sempna Infrastructure
Mitsubishi
Toyota North America
Sojitz

SGH2 LANCASTER



LARGEST BASELOAD
CLEAN HYDROGEN
PRODUCTION PLANT IN
U.S



GENERATING 4.5
MILLION KG OF CLEAN
HYDROGEN ANNUALLY



10 YEAR OFF-TAKE
CONTRACTS WITH
THE LEADING
HYDROGEN FUELING
STATION
OPERATORS



PUBLIC - PRIVATE
PARTNERSHIP WITH
THE CITY OF
LANCASTER USING 120
TONS/DAILY OF
UNRECYCLABLE MIXED
PAPER WASTE.



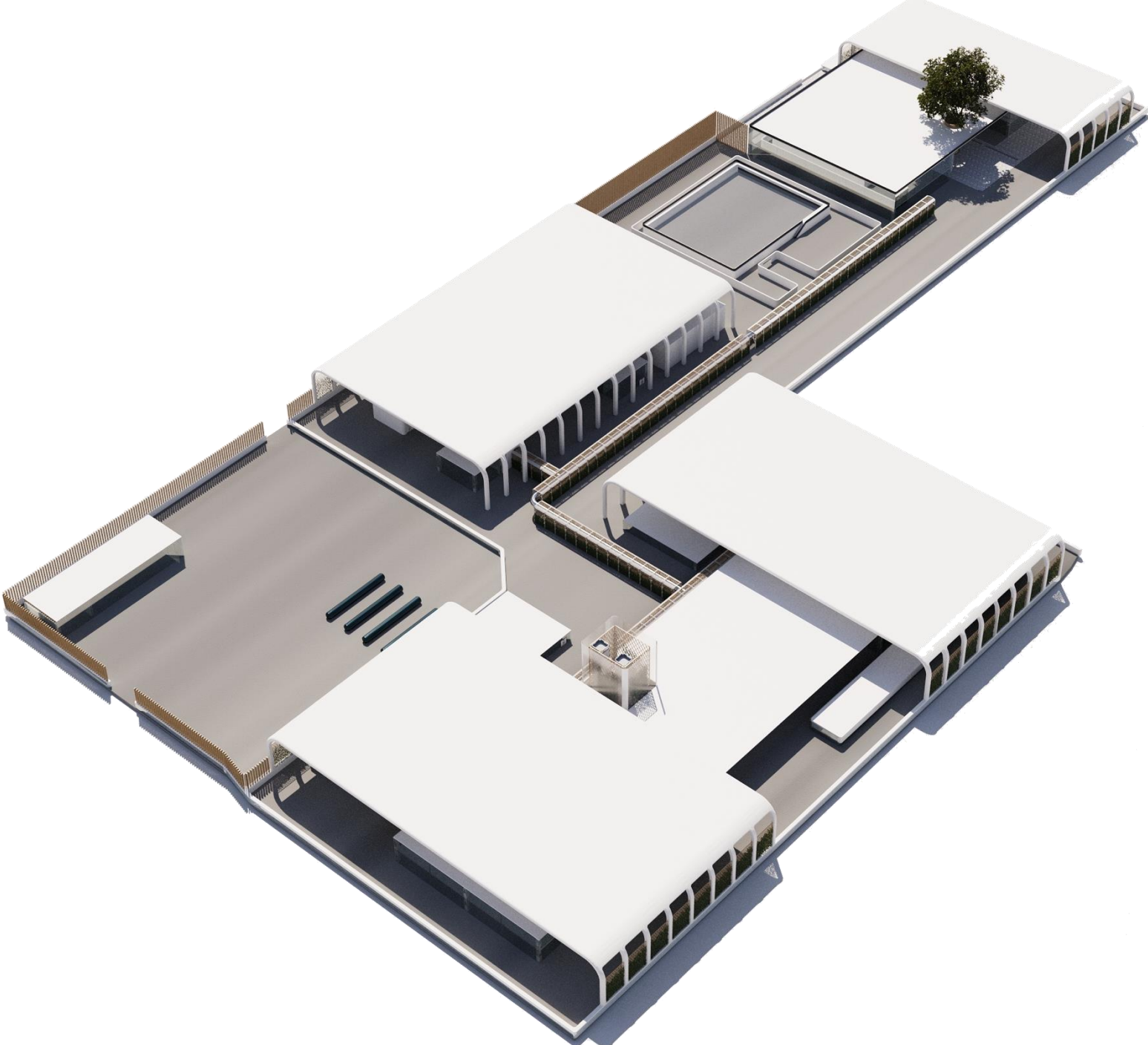
AWARDED \$3 MILLION
CEC GRANT.
CEQA/CUP APPROVED
DECEMBER 12, 2022

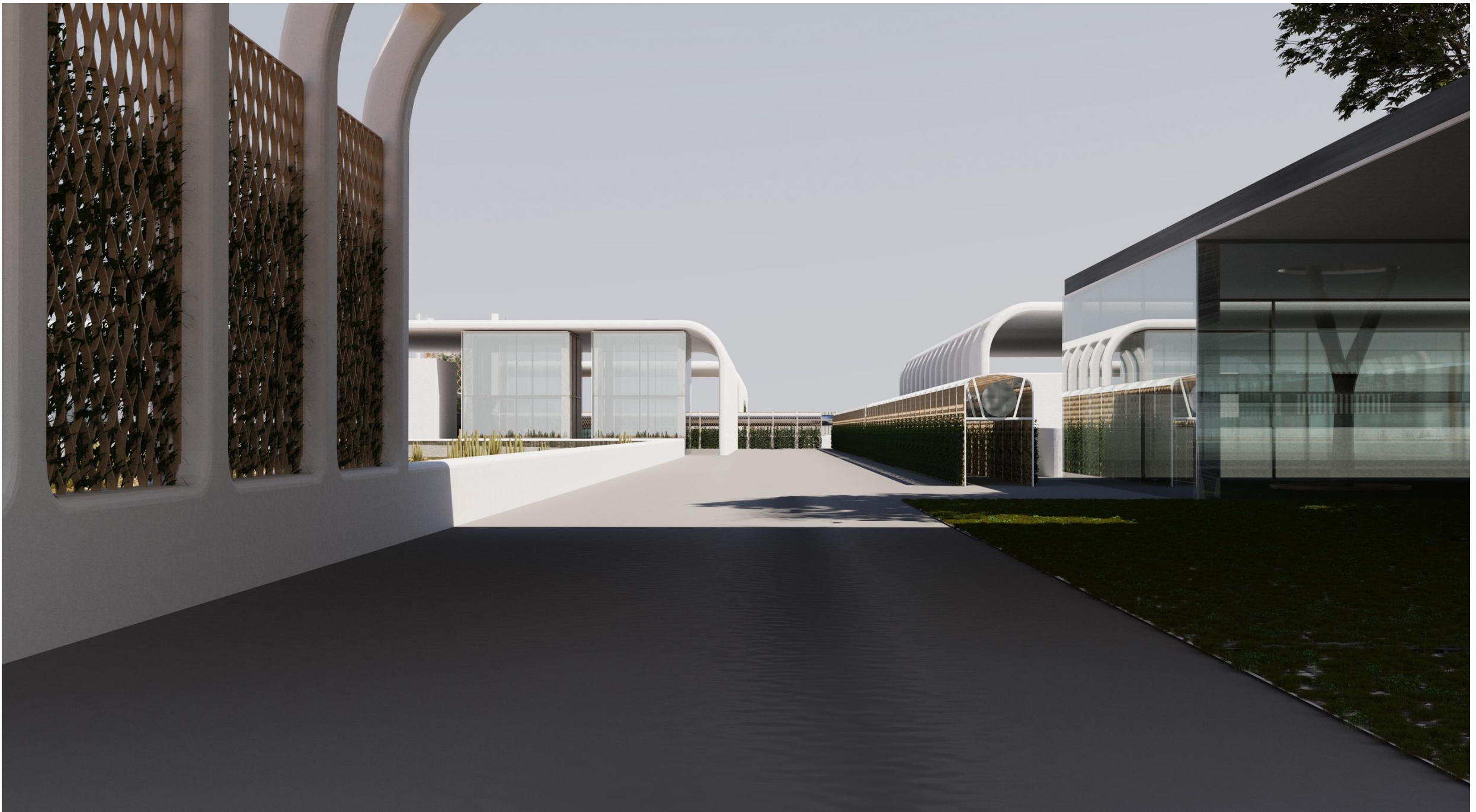


OPERATING 24/7, 350
DAYS ANNUALLY









SGH2 Sierra Project



Largest baseload clean
LIQUID hydrogen
production plant in U.S



Generating 11.5 million kg
of LIQUID HYDROGEN



Operating 24/7, 350 days
annually



Partnership with IWATANI,
off-take contract to supply
HRS.



MOU with SIERRA
INSTITUTE, 360 tons/day of
forest residues from forest
clearings, preventing
wildfires



Awarded \$500,000 DOC
Grant phase I . Eligible for
phase ii \$25 M Grant





Favorable location & permitting

Strong Economies of Scale

Outcompetes All Other Hydrogens

KEY FACTORS

California, the most advanced clean energy state in the US, has strong policies and funding for ambitious hydrogen and fuel cell technology adoption in transportation and power. The state's transportation sector is its largest source of GHG emissions, generating 37% of total emissions.

California aims to install a minimum 200 hydrogen refueling stations by 2025 and 1,000 stations by 2030 to fuel one million fuel cell vehicles.

With production cost benchmark of clean H₂ at less than US\$2.5 per kg, The Lancaster facility will be able to derive strong economies of scale for the entire clean H₂ value chain. Production facility is modular and easily scalable.

SMR (Steam Methane Reformer) of natural gas to produce grey H₂ generates carbon emissions of 12.3 kg CO₂/kg of grey H₂.

Renewable Natural Gas (RNG) as a feed for making clean H₂ can only be produced at small quantities and a high price making H₂ from RNG cost inefficient and limited in quantity, due to the scarce amount of wet fermentable waste feedstock.

Green power-to-gas or electrolytic H₂ : (i) intermittent production due to availability of renewable power; (ii) high energy load of 60 KW/h required to produce 1 kg of H₂; (iii) high costs of power; and (iv) high demand for large land and water usage resulting in currently high costs of US\$6-\$8 per kg clean H₂.



SGH2 TYPICAL MODULAR PROJECT

SMALL FOOTPRINT, BIG CAPACITY

LAND REQUIREMENT

5 acres (2 hectares) for the processing modular plant. The rest of the acreage will depend on the amount of feedstock storage required and how hydrogen is stored and transported from the site.

FEEDSTOCK REQUIREMENT

120 MT per day of biomass (equivalent to 6 trucks a day) with a minimum of 4,000 Kcal/Kg calorific content and ideally with no more than 25% moisture.

CARBON NEGATIVE CLEAN H₂ PRODUCTION

13 T of H₂ per day or 4,550 T per year.

Equivalent to 15 million Nm³ per year of natural gas.



SGH2 CORPORATION THE WORLDWIDE SOLUTION

CAN SCALE QUICKLY

Stacked modular design is built for rapid scale and linear distributed expansion, at lower capital costs, and a fraction of the land required by other green hydrogen facilities reliant on large scale solar and wind farms. All engineering and construction is standardized and quality assured, performed in collaboration with the largest engineering, procuring and construction companies in the world such as Fluor Group.

PROVIDES CLEAN HYDROGEN YEAR-ROUND, 24/7

Unlike other hydrogen production reliant on solar or wind, the SPEG process operates on a year-round base load capacity and can produce hydrogen at scale more reliably.

FUELING A CLEAN ENERGY FUTURE, TODAY

Bloomberg New Energy Finance analysis predicts dramatic greenhouse gas reductions when green hydrogen becomes cost competitive, and forecasts green hydrogen costs dropping to U.S. \$2 per kilogram by 2030 in India and Western Europe. SGH2 is producing greener than green hydrogen at that cost today.



Stockton

**Sierra
Lancaster**

Port of Rotterdam

Port of Antwerp

Frankfurt

**ACCELERATION
PHASE: 6 PROJECTS**

**Rolling Out Between
2023-2024**



GROWTH PHASE 2024-2040

SGH2 HAS CREATED WAVES OF POSITIVE NEWS FLOW

Forbes

The World's Biggest Green Hydrogen Plan is Planned for California. Its Prospects For Electric Power and Transportation?

Los Angeles Times

First of its kind hydrogen plant planned for Los Angeles County



Why green hydrogen is the renewable energy source to watch in 2021



California City approves the world's largest green hydrogen plan that turns trash into clean power

S&P Global

Platts

Zero-carbon could be cost-competitive in transport sector by 2030

RECHARGE

Green than green hydrogen to be produced at same cost as grey H2 at world's largest facility

See more at www.SGH2Energy.com

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