



Project/Opportunity Profile

Project Plant Name: Entity:	Kettleman Yosemite Hydrogen #1 Kettleman Bioenergy LLC (TBD)
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CONTACTS:

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LOCATION:

Kettleman City – region, CA – 2.5 miles SE of Kettleman City, California off of Utica Avenue on the SW side of Interstate 5
Approximate population in area 1,000

OPPORTUNITY SUMMARY

Yosemite Clean Energy LLC will be project developer and through our consortium, will design, build and operate a dual-bed gasification plant with technology licensed from Aichernig Engineering TU Wien Gasifier to produce an approx. 20,000 kg per day of green hydrogen. The plant will use approximately 96,000 bone dry tons of wood per year.

PROJECT SIZE / ESTIMATED VALUE

50MWt

TIMELINE / CURRENT STATUS:

FEL 1–2 by April 2020
Full FEL 3–4 detailed engineering by October 2020
Biomass supply and cost study – by August 2020
Land due diligence, LOI, CUP, CEQA – By April 2020
Central Valley Pollution Control District– CARB Approval –April 2020
Project Feasibility – By April 2020
Financing decision –July 2020
Full engineering and October 2020
Notice of decision to Construct October 2020
Ground breaking: October 2020

FEED STOCK:

- Primarily agricultural almond, tree fruit residuals to supply hydrogen production. Forest logging residuals – the mix of fuel specifications shall be of (20%) forest residuals and up to (80% agriculture)
- Feedstock primary suppliers: Local Orchard Farmers from Kings and Fresno Counties: Others include Private forest landowners, USFS, Local Wood Waste Collection, and other wood producers within 75 miles.
- Forest fuels treatments and other harvesting – USFS – via Master Stewardship Agreements
- Fire Safe – fuel treatments and biomass removal as part of community wildfire protection
- PG & E and SCE – Chipping and Grinding Operations from powerline tree removal program in region over the next 2–10 years may be a steady source of biomass

OUTPUT TYPE / OFF TAKE

Hydrogen – primary offtake with Cities and Hydrogen Truck stop
Tail gas methane from Pressure Swing Absorption system to be determined for RNG and/or electricity production on site using gas turbines
Waste heat to produce power for mitigating plant load.
Potential waste heat to provide absorption chilling for cold storage on site

PARTNERS / CUSTOMERS and RELATIONSHIP

Confidential – farm partners will own the facility via a Co-operative TBA

FUNDING SOURCES

Capital partners and project LLC or Co-op Structure to be set up in the next quarter.

FINACIAL ANALYSIS

TBA