



## Project/Opportunity Profile

Project:	Auberry, California - Fischer-Tropsch Plant
Plant Name:	Yosemite FT #1
Entity:	Auberry Bioenergy LLC

### CONTACTS:

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### LOCATION:

Auberry, CA - approximately 30 miles NE of Fresno, California in the Sierra Foothills at approximately 2,500 feet elevation. Approximate population in area 3,000
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### OPPORTUNITY SUMMARY

Yosemite Clean Energy LLC will be project developer and through our consortium, will design, build and operate a dual-bed gasification technology using the Aichernig Engineering TU Wien Gasifier and a Fischer-Tropsch Reactor that will be designed and engineered by Korea Institute of Energy Research to produce an approximate 1.6 million diesel gallon equivalent (DGE) of Fischer-Tropsch Liquids and co-product of TBD tons of green hydrogen per day with a plant biomass input of 52,000 BDT/yr. co-product of Green Hydrogen that will be an approximate 52,000 bone dry tons per year
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### PROJECT SIZE / ESTIMATED VALUE

25MWt
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### TIME LINE / CURRENT STATUS:

FEED study Pre-engineering by August, 2020  
FEL 2 - by Oct. 2020,  
Biomass supply and cost study - by August, 2020  
Land due diligence, LOI, CUP, CEQA - By May, 2020  
Central Valley Pollution Control District- CARB Submission - May, 2020  
Project Feasibility - By October, 2020  
Financing decision -December, 2020  
Full engineering and Feb. 2021  
Notice of decision to March., 2021  
Ground breaking: September , 2021

### **FEED STOCK:**

- Forest logging residuals - the mix of fuel specifications shall be of (80%) forest residuals and up to (20%) agricultural almond, tree fruit residuals to supply hydrogen production.
- Feedstock primary suppliers: Southern CA Edison, USFS, Local Wood Waste Collection, and Agricultural producers within 50 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**

Fischer-Tropsch - primary offtake  
Tail gas methane from FT reactor to be determined for RNG or Green Hydrogen  
Waste heat to produce power for mitigating plant load.  
the industrial-commercial land parcels, including an old sawmill site is adjacent to the proposed plant and may have a need for waste heat to kiln dry or heat treat lumber

### **PARTNERS / CUSTOMERS and RELATIONSHIP**

Sierra Resource Conservation District - Memorandum of Understanding - Signed  
USFS - Feed stock - letter of support  
Southern California Edison (owns 20,000 acres timberlands in area and have letter of support.)  
Local Firesafe program is promoting a Wood disposal program that could be collected at the site.

### **FUNDING SOURCES**

\$75,000 Sierra Nevada Conservancy funding has been received and has been used to contract Provost & Pritchard Group (Civil Engineering) for submission of a Fresno

County Conditional Use Permit and CA Environmental Quality Act (CEQA) requirements.

An additional \$350,000 proposal for joint funding a biomass study on the Sierra National Forest has been drafted and discussions are underway with the US Forest, Regional Resource Conservation Districts to support the biomass study.

## **FINACIAL ANALYSIS**

TBA