

**SOUTHERN CALIFORNIA GAS COMPANY (SOCALGAS)**  
**SIERRA CLUB-SCG-03**  
**WOODY BIOMASS PILOT PROJECT APPLICATION (A.25-10-008)**  
**DATE REQUESTED: February 18, 2026**  
**RESPONSE DUE: March 3, 2026**

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**QUESTION 3-1:**

What is the basis for the statement that the facility “will process up to 80 BDT per day of agricultural waste biomass into approximately 750 MMBtu per day of biomethane,” presented in SoCalGas’s Application at page 6? Please indicate the assumptions underlying the statement that 80BDT will be converted to 750 MMBtu.

**RESPONSE 3-1: (WBF)**

The basis for the statement is the energy balance on the facility. The facility is designed to process up to 80 bone dry tons of almond biomass (gross calorific value of approximately 1250 MMBtu) into 750 MMBtu of Bio-SNG each day. The process exhibits a thermal efficiency of approximately 60%.

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**QUESTION 3-2:**

SoCalGas's Response 4 to CalAdvocates' December 8, 2025 data request includes a "WBF Process Flow Diagram."

**QUESTION 3-2a:**

How is the "steam" depicted in the diagram generated? Please provide the specifications of the steam generation technology, including the fuel that will be used.

**RESPONSE 3-2a: (WBF)**

The steam is generated internally to the process using heat recovered from the product gas and flue gas streams using heat exchangers. Steam is generated with a heat recovery boiler that operates with heat transfer fluid in a closed loop within the system. There is no additional fuel needed to generate this steam and no additional emissions associated with this steam.

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**QUESTION 3-2b:**

What emissions, if any, are associated with the production of the steam?

**RESPONSE 3-2b (WBF)**

No additional emissions.

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**QUESTION 3-2c:**

Will the emissions of the flare be monitored? If so, please describe the monitoring technology.

**RESPONSE 3-2c: (WBF)**

The total hours of use of the flare will be monitored, and the emissions can be estimated using the emissions factors for the flare. The flare is designed as an emergency flare and is expected to operate infrequently. Its use will adhere to the requirements of the local air district.

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**QUESTION 3-2d:**

Will the emissions of the exhaust be monitored? If so, please describe the monitoring technology.

**RESPONSE 3-2d: (WBF)**

Yes. It is likely the local air district will require monitoring of the exhaust emissions. This will likely entail continuous recording of facility throughput, continuous monitoring of stack O<sub>2</sub> and NO<sub>x</sub>, and periodic third-party testing of all criteria pollutant emissions from the exhaust.

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**QUESTION 3-2e:**

What is the composition of the gas that is flared?

**RESPONSE 3-2e: (WBF)**

The estimated composition by volume of the syngas that would be flared during a methanation system shutdown is as follows:

Hydrogen	35-45%
Carbon Monoxide	22-25%
Methane	9-11%
Carbon Dioxide	20-25%
Nitrogen	1-3%
Oxygen	<0.1%
Ethylene	2-3%
Ethane	~0.5%
Propene	~0.4%
C4+	<0.1%
Sulfur	<1ppm
Dust/Particulate	<20 mg/Nm <sup>3</sup>

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**QUESTION 3-2f:**

Please indicate the path of the hydrogen, if any, in the process indicated in Lanes 2, 3, and 4.

**RESPONSE 3-2f: (WBF)**

There is no hydrogen added to this process. The syngas can be composed of up to 40% hydrogen by volume, but it is in a mixture with other gases. The syngas containing hydrogen is generated as part of the gasification process in Lane 2 and is filtered and scrubbed in Lane 3 and then the hydrogen and other gases are converted to Bio-SNG, CO<sub>2</sub> and water vapor in Lane 4.

*WBF Process Flow Diagram (Submitted for Cal Advocates DR-01 Question 4)*

