

# RENEWABLE GAS INTERCONNECT FACT SHEET

Contact the Utility for additional information and submit completed forms at the following email address:

Biomethane@pge.com  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Please provide the following information regarding your potential project or expansion.**

## **SECTION 1 - PROJECT AND CONTACT INFORMATION**

COMPANY NAME: \_\_\_\_\_

COMPANY TYPE:  Corporation  Limited Liability Company  
 General Partnership  Limited Liability Partnership  
 Limited Partnership  Government Agency  
 Other \_\_\_\_\_

COMPANY MAILING ADDRESS: \_\_\_\_\_

COMPANY TELEPHONE NUMBER: \_\_\_\_\_

COMPANY EMAIL ADDRESS: \_\_\_\_\_

COMPANY WEBSITE: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

TAX ID: \_\_\_\_\_

BILLING ADDRESS: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_

CONTACT TITLE: \_\_\_\_\_

CONTACT TELEPHONE NUMBER: \_\_\_\_\_

CONTACT EMAIL ADDRESS: \_\_\_\_\_

## LOCATION OF PROJECT

Street address or intersection of cross-streets, city and county. If in undeveloped territory without streets, section range township, or GPS latitude/longitude coordinates:

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## ANTICIPATED START DATE, END DATE AND EXPECTED DURATION OF YOUR PROJECT IN YEARS

START DATE of COMMERCIAL OPERATIONS \_\_\_\_\_

END DATE of COMMERCIAL OPERATIONS: \_\_\_\_\_

EXPECTED DURATION IN YEARS: \_\_\_\_\_

## FORECASTED OPERATING PROFILE

24 hours/day, 7 days/week     8 hours/day, 5 days/week

Other, please specify your forecasted working hours and days \_\_\_\_\_

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Is there seasonal operation?     Yes     No

If yes, please explain: \_\_\_\_\_

## FORECASTED MAXIMUM FLOW

Standard cubic feet per hour compliant gas delivery (Scf/h):

## FORECASTED MINIMUM FLOW

Standard cubic feet per hour compliant gas delivery (Scf/h): \_\_\_\_\_

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## PRESSURE REQUIREMENTS OR LIMITATIONS FOR YOUR FACILITY AND/OR EQUIPMENT

Requirements or limitations in pounds-per-square-inch gauge (psig): \_\_\_\_\_

Explain the basis for the limitation: \_\_\_\_\_

None

## SOURCE OF GAS SUPPLY

Renewable Gas       Yes       No

- |                                       |   |   |
|---------------------------------------|---|---|
| <input type="checkbox"/> Dry Gas Zone | <input type="checkbox"/> Oil-associated   | <input type="checkbox"/> Liquefied Natural Gas  |
| <input type="checkbox"/> Dairies      | <input type="checkbox"/> Sewage Treatment | <input type="checkbox"/> Non-Hazardous Landfill |
| <input type="checkbox"/> Food/Green   | <input type="checkbox"/> Other            |   |

Additional Comments: \_\_\_\_\_

API Number (If Applicable): \_\_\_\_\_

**Attach Site Drawings and/or Aerial Map of Project Site**

## SECTION 2 - ANTICIPATED GAS QUALITY

Please provide the list of gas constituents and compositions of the gas prior to gas-processing (raw gas) and after gas-processing (Renewable Gas Rule 29 compliant gas), if available. Analysis should include all applicable gas quality parameters in Renewable Gas Rule 29.

Analysis Date: _____					
List of Gas Constituents					
	Gas Constituent Name	Units	Expected Composition in Raw Gas	Expected Composition in Processed Gas	Notes
1	Methane	mole %			
2	Ethane	mole %			
3	Propane	mole %			
4	i-Butane	mole %			
5	n-Butane	mole %			
6	i-Pentane	mole %			
7	n-Pentane	mole %			
8	Hexane +	mole %			
9	Carbon Dioxide	mole %			
10	Nitrogen	mole %			
11	Oxygen	mole %			
12	Hydrogen Sulfide	mg/m <sup>3</sup> , ppm <sub>v</sub>			
13	Total Inert Compounds	mole %			
14	Heating Value (Gross)	BTU/scf			
15	Wobbe Number				
16	Delivery Temperature	degrees F			
17	Hydrocarbon Dew Point	degrees F			
18	Water Content	lbs/MMscf			

19	Total Sulfur (1)	grains S/100scf (ppm <sub>v</sub> )			
20	Mercaptans (2)	ppm <sub>v</sub>			
21	Sulfides (3)	ppm <sub>v</sub>			
22	Tetrahydrothiophene	ppm <sub>v</sub>			
23	Siloxanes	mg Si/m <sup>3</sup> , ppm <sub>v</sub>			
24	Ammonia	mg/m <sup>3</sup> , ppm <sub>v</sub>			
25	Hydrogen	mole %			
26	Mercury	mg/m <sup>3</sup> , ppm <sub>v</sub>			
27	Biologicals (4)	count/scf			
28	1,4-Dichlorobenzene	mg/m <sup>3</sup> , ppm <sub>v</sub>			
29	Ethylbenzene	mg/m <sup>3</sup> , ppm <sub>v</sub>			
30	Vinyl Chloride	mg/m <sup>3</sup> , ppm <sub>v</sub>			
31	Silicon Compounds (as Si) (5)	mg/m <sup>3</sup> , ppm <sub>v</sub>			
32	Sulfur Compounds (as S) (5)	mg/m <sup>3</sup> , ppm <sub>v</sub>			
33	Chlorocarbons (as Cl) (5)	mg/m <sup>3</sup> , ppm <sub>v</sub>			

(1) This includes COS and CS<sub>2</sub>, hydrogen sulfide, mercaptans, and mono di and poly sulfides.

(2) Speciated, e.g., methyl mercaptans, ethyl mercaptans, butyl mercaptans, propyl mercaptans

(3) Speciated, carbonyl sulfide, dimethyl sulfide, dimethyl disulfide

(4) APB: Acid-producing Bacteria, SRB: Sulfate-reducing Bacteria, IOB: Iron-oxidizing Bacteria

(5) The compounds for these chemical classes per Appendix A and Section 4.4 of the 2023 CARB/OEHHA AB1900 Supplemental Report or newest published version

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Only complete those fields applicable to the source of raw product gas or feedstock gas for the project.

Analysis Date: _____					
List of Gas Constituents					
	Biogas Source	Gas Constituent Name	Units	Expected Composition in Raw Gas	Expected Composition in Processed Gas
34	Landfill, Other	Arsenic	mg/m <sup>3</sup>		
35	Dairy, Other	N-Nitroso-di-n-propylamine	mg/m <sup>3</sup> , ppm <sub>v</sub>		
36	Landfill, Other	Antimony	mg/m <sup>3</sup> , ppm <sub>v</sub>		
37	Dairy, Sewage Treatment, Other	Cadmium	mg/m <sup>3</sup> , ppm <sub>v</sub>		
38	Landfill, Sewage Treatment, Other	Lead	mg/m <sup>3</sup> , ppm <sub>v</sub>		
39	Landfill, Sewage Treatment, Other	Chromium (6)	mg/m <sup>3</sup> , ppm <sub>v</sub>		
40	Landfill, Food/Green, Other	Fluorocarbons (as F) (5)	mg/m <sup>3</sup> , ppm <sub>v</sub>		
41	Other (7)	Carbon Monoxide	mole %		

(6) Evaluate as only total chromium  
 (7) Carbon monoxide shall be tested in Bio-SNG only. Bio-SNG falls in the "Other" of the Biogas Source Category.

## SECTION 3 - RAW PRODUCT GAS OR FEEDSTOCK GAS SURVEY

What is the source of the gas? \_\_\_\_\_

What is the composition of the source (solids/liquids)? \_\_\_\_\_

For animal waste gas, what is the animal feed composition and what is applied (hoof and skin conditioning, cleaning), ingested or injected to the animal? Is it consistent or controlled?

\_\_\_\_\_  
 \_\_\_\_\_

What pesticides are used at the facility? \_\_\_\_\_

What chemicals are used or in contact from collecting, moving and processing of the waste?

\_\_\_\_\_  
 \_\_\_\_\_



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What are the min/avg/max gas production rates (pre-processed gas) (in thousand standard cubic feet per day (MScf/d))?

### PRE-PROCESSED GAS

	MScf/d Minimum	MScf/d Average	MScf/d Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

How does it vary over time? \_\_\_\_\_  
\_\_\_\_\_

What are the minimum, average and maximum gas sales rates (processed gas)?

**PROCESSED GAS**

	MScf/d Minimum	MScf/d Average	MScf/d Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

How does it vary over time on a daily or seasonal or ambient condition or other basis, hour by hour?

Is any part of the gas coming from another site?       Yes     No

If yes, please complete a Biogas Survey for each site.

If yes, list each site and the flow rates (or percentage) of the total at this meter.

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Briefly describe the digestion process or attach a copy of the process flow diagram or schematic drawing showing the flow path of the gas generating equipment with the operating conditions (pressure in psig, temperature in degrees Fahrenheit, flow rate in MScf/hour or day).

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What chemicals or treatments are added to this process? \_\_\_\_\_

What process prevents bacteria and pathogens from entering the sales gas stream?

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Briefly describe your gas treatment and gas processing or attach a copy of your process flow diagram or schematic drawing showing the flow path of the gas through processing equipment.

\_\_\_\_\_

\_\_\_\_\_

What process is used to remove CO<sub>2</sub> and/or H<sub>2</sub>S, Sulfur? \_\_\_\_\_

What process is used to reduce the water content? \_\_\_\_\_

What process is used to reduce the hydrocarbon dewpoint? \_\_\_\_\_

What other solvents, solids and processes are being used on the gas stream? \_\_\_\_\_

\_\_\_\_\_

What process is used to prevent solid/liquid carryover into the gas stream?

\_\_\_\_\_

What process is used to remove siloxanes? \_\_\_\_\_

Have there been any contaminants measured in the gas, air/emission, solid and liquid stream at the facility?

Yes  No

If yes, please list results and the test frequency.

\_\_\_\_\_

What parameters or monitoring equipment are used to control the gas quality limits?

\_\_\_\_\_

