Please Note: This is a complete list of the questions found in this survey. Depending on how the respondent answers the subsequent questions asked will vary.

Data Tracking Form for Stand-Alone Anaerobic Digesters

Project/Facility Information

1. Please provide the following information about your Project/Facility.
   Project/Facility Name
   Street address
   City/Town
   State
   Zip code
   Phone Number

2. Please provide the following information for the contact person for facility operations
   Name
   Title
   Email Address
   Phone number

3. Please provide the contact address (if different from Facility Address)
   Street address
   City/Town
   State
   Zip code

4. If you do not wish to have your facility's general information (facility name, city, state, facility type and operational status) included in future EPA reports, please check the box below
   ☐Please do not include the information above in future publications summarizing the data collected via this survey.

Type of Stand-Alone digester

5. Which of the following choices best describes your facility?
   ☐ Multi-source Food Digester
   ☐ Industry dedicated digester
   ☐ Other

Facility operating status

6. Please identify the status of your facility
   - ☐ Planning stage/ Design stage/Permitting process
   - ☐ Under construction
   - ☐ Operational
   - ☐ Temporary shut-down
   - ☐ Ceased operation
   - ☐ Other

7. What is the targeted date for your facility to be operational?

8. What date did your facility become operational?

9. What date did your facility temporarily shut-down?

10. What is the targeted date for your facility to re-start operations?

11. What date did your facility cease operations?

12. Please state the reason your facility ceased operations.

Facility Total Capacity

13. Please provide the total capacity for accepting food-based feedstock of your facility in the units identified.

    [Type in number here] Choose an item.

14. During the year 20XX, how many months was your facility operational?

Processed Waste

15. Does your facility accept and process food-based feedstocks?
    - o Yes
    - o No

16. Please describe the total amount of food-based feedstock accepted by your facility in 20XX. Do this by typing in the amount of food waste, and selecting the units, feedstock type, and feedstock source.

    [Type in number here] Choose an item. **of**

    Choose an item. **from**

    Choose an item.

17. Does your facility accept and process non-food-based feedstocks?
    - o Yes
    - o No

18. Please describe the total amount of non-food-based feedstock accepted by your facility in 20XX. Do this by typing in the amount of non-food waste, and selecting the units, feedstock type, and feedstock source.

    [Type in number here] Choose an item. **of** Choose an item. **from**
    Choose an item.

19. Do you collect tipping fees?
    - o Yes
    - o No

20. Are you willing to share information about the tipping fees you collect?
    - o Yes
    - o No

21. How much revenue did your facility collect in tipping fees in 20XX?

22. If you would like to provide any other relevant or important information related to tipping fees, please do so below.

Pre-processing/operations

23. Are pre-processing or de-packaging activities conducted on your feedstocks before they are added to your digester?
    - o Offsite
    - o Onsite (at your facility)
    - o Both
    - o None of the above

24. Please identify the pre-packaging or de-packaging activities that are conducted at your facility. Check all that apply.
    - ☐Manual or mechanized de-packaging
    - ☐Screening for debris or sorting
    - ☐Grinding and/or maceration
    - ☐Third party processing
    - ☐Shredding
    - ☐Heating
    - ☐pH adjustment
    - ☐Centrifugal separation
    - ☐Liquid/solid separation
    - ☐Other (please specify)

25. Please identify the operating temperature range for your digester.
    - o Mesophilic

- o Thermophilic
- o Unheated/Ambient

26. Please indicate if your digester is “wet” or “dry.”
    - o Wet, low-solids system, less than 15% (by volume) solids content.
    - o Dry, high-solids system, greater than 15% (by volume) solids content.

27. Please identify the design that best fits your design type/configuration:
    - o Continuously Stirred Tank Reactor (CSTR)
    - o Plug-flow
    - o Covered Lagoon
    - o Fixed film
    - o Suspended Media
    - o Percolating Bed
    - o Upflow Anaerobic Sludge Blanket (UASB)
    - o Anaerobic Sequencing Batch Reactor (ASBR)
    - o Membrane Bioreactor (MBR)
    - o Hybrid/Multi-stage
    - o Other (please specify)

Product End-Uses

28. Please provide the average biogas production volume at your facility during calendar year 20XX in one of the units identified below.
    [Type in number here] Choose an item.

29. Is the biogas produced at this facility?
    - ☐Used onsite
    - ☐Sold
    - ☐Flared
    - ☐Other (please specify)

30. Please identify how the biogas produced at this facility is used. It could be used onsite by the facility or offsite by a purchaser. Check all that apply.
    - ☐Produce mechanical power
    - ☐Produce heat and electricity (CHP)
    - ☐Produce electricity (including net metering)
    - ☐Produce electricity (sold to grid)
    - ☐Fuel boilers and furnaces to heat digesters
    - ☐Fuel boilers and furnaces to heat other spaces
    - ☐Compressed to vehicle fuels: used for company fleet/personal vehicles
    - ☐Compressed to vehicle fuels: sold to customers
    - ☐Renewable natural gas (processed in order to inject to pipeline)

☐Other (please specify)

31. Are you able to utilize all of the biogas produced?
    - o Yes
    - o No

32. Do you flare the excess biogas?
    - o Yes
    - o No

33. Do you have a gas cleaning system?
    - o Yes
    - o No

34. What is removed by your gas purification system? Check all that apply.
    - ☐Moisture
    - ☐Sulfur
    - ☐ Siloxanes
    - ☐ Carbon Dioxide
    - ☐ Compressed Gas
    - ☐ Hydrogen sulfide
    - ☐ Particulates
    - ☐ Oxygen
    - ☐ Nitrogen
    - ☐ VOCs
    - ☐ Other (please specify)

35. Do you use the solid digestate you produce in any of the following ways? Check all that apply.
    - ☐De-watered/dried and land applied
    - ☐ Land applied as is with no dewatering or drying
    - ☐ Composted into a reusable or salable product
    - ☐ Processed into other salable products (e.g., flower pots)
    - ☐ Landfilled
    - ☐ Incinerated
    - ☐ Other (please specify)

36. If any digestate was disposed of in landfills or incinerated in 20XX, please specify the amount in tons or gallons (if known).
    [Type in number here] Choose an item.

37. Is the de-watered/dried digestate further treated prior to land application?
    - o Yes

- o No

38. How do you manage the liquid digestate you produce? Check all that apply.
    - ☐ Beneficially reused as fertilizer via land application
    - ☐ Recirculated through digester
    - ☐ Discharged to a wastewater treatment plant
    - ☐ Other (please specify)

39. Is the liquid digestate further treated prior to land application?
    - o Yes
    - o No

40. Please indicate what the further treatment is and why it is necessary.

41. Do you recover nutrients from your digestate?
    - o No
    - o Yes, phosphorous recovery by chemical precipitation (e.g., struvite)
    - o Yes, ammonia recovery
    - o Other (please specify)