# Anaerobic Digestion Fuel Measurement and Sampling Questionnaire

## Section A – Application Information

This section gathers general information regarding your generating station and the fuels and feedstock, to which these procedures relate. The answers must match those stated on your accreditation application.

1. Check the box to confirm that you have read our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire**🏱** [ ]
2. Name of generating station (as stated on the Register) **🏱**



1. Declared net capacity (DNC) of the generating station (kW) **🏱**



1. Total installed capacity (TIC) of the generating station (kW) **🏱**



1. Fuel(s) used for electricity generation e.g. biogas and Fossil Fuel **🏱**



1. List of feedstock used to produce the fuel(s) **🏱**



1. If your station has a **DNC of >50kW** and a **TIC of <1MW**, tick the box to confirm that you will keep records of the quantity of feedstock used in the digester, so you can report your annual profiling data accurately. **[ ]**

## Section B – Version History

This section should only be completed for any revisions made **after the initial approval of procedures** has been given by Ofgem.

1. Indicate the version number of these FMS procedures N.B. Rev 0 is the procedures as originally approved ***Version Number***
2. State the purpose of this latest revision and indicate the changes made (making reference to specific questions e.g. D3)



## Section C – Fuel Classification

Please refer to table 1 in our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire to see whether you need to complete this section, given your station size.

This section gathers information on whether you are applying a fuel classification with associated exemptions to your feedstock. this is to identify whether the feedstock/process is already accounted for in the [Sustainability Criteria guidance](https://www.ofgem.gov.uk/publications-and-updates/renewables-obligation-sustainability-criteria-england-wales-and-scotland). We suggest you read chapter 3 of this guidance to help you answer questions **C1** and **C2**.

1. Do you consider all feedstock stated in **A6** to be products or co-products? Choose an item

If you have answered **‘No’** to **C1**, answer **C2**.

1. Are the feedstock that you do not consider to be products or co-products, already identified in Appendix 3 of the Sustainability Reporting guidance? Choose an item

If you have answered **‘No’** to **C1** and **C2**, a member of the team will be in touch to discuss the classification.

## Section D – Consignment Assessment and Tracking Sustainability Information

For more information about this section, including whether you need to complete it given your station size, please refer to our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire.

### Consignment Assessment

Questions **D1 – D5** help determine whether the fuel(s) specified in **A6** are single or multiple consignments, derived from feedstock with different sustainability characteristics.

1. With reference to the sustainability characteristics listed in Chapter 6 of the Sustainability Reporting guidance:
	* Group the feedstock listed in **A6** into consignments,
	* Provide names for these feedstock consignments.



1. Are feedstock mixed in the supply chain/before arriving at the generating station? Choose an item
2. If you answered **‘Yes’** to **D2**, which of the feedstock, listed in **A6**, are mixed in the supply chain/before arriving at the generating station? This includes mixing with fossil fuel.



1. Are feedstock mixed at the generating station prior to anaerobic digestion? Choose an item
2. If you answered **‘Yes’** to **D4**, which of the feedstock, listed in **A6**, are mixed at the generating station? This includes mixing with fossil fuel.



If there is only one feedstock consignment used at the generating station, go to **Section G**.

If morethan one feedstock consignment is used at the generating station, and you have answered **“No”** to **D2** and **D4**, or the feedstock that are mixed are part of the same feedstock consignment, go to **section E**.

### Tracking Sustainability Information

Questions **D6** and **D7** gather information on how you will determine the quantity of each feedstock consignment used at the generating station where consignments are mixed.

1. Which type of mass balance system do you use to determine the quantity of each feedstock consignment used at the generating station? ***Choose Item***
2. Explain how you will use a mass-balance system, including:
	* where in the supply chain and/or generating station the method will be used,
	* which feedstock consignments it will apply to,
	* how you will use the system to determine the quantity of each feedstock consignment used in a month.



## Section E – Determining the Quantity of Feedstock Used

For more information about this section, including whether you need to complete it given your station size or the number of consignments you use, please refer to our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire.

1. How do you determine the quantity of each feedstock consignment fed to the digester in a month? Refer to the locations at which measurements are taken and any equipment that is used.



1. State the accuracy of any equipment used for quantity measurements – this should be expressed as a percentage of the unit of measure eg +/- 1.5%. Make reference to any steps you are taking to ensure ongoing accuracy eg calibration undertaken on a period basis with reference to a relevant technical standard if applicable.



1. If any feedstock is carried over in storage from one month to the next, how will this quantity be accounted for?



## Section F – Apportioning the biogas according to the feedstock used

For more information about this section, including whether you need to complete it given your station size or the number of consignments you use, please refer to our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire.

1. How will you apportion the biogas according to the feedstock used? Choose an item

If you have answered ‘Ofgem’s Apportioning Tool’, then answer question **F2**. If you have answered ‘Direct measurement and sampling of the feedstock’ or ‘Other’, then answer **F3.**

1. If you intend to overwrite the default data in the apportioning tool, then explain how you have derived this data and to which feedstock it applies.



1. Describe the method you use to apportion the biogas according to the feedstock used.



**Section G should only be completed if fossil fuels are being used at the generating station. If you are not using fossil fuels at your generating station, tick this box [ ]  and go to Section H. 🏱**

## Section G – Fossil Fuel Use

For more information about this section, please refer to our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire.

1. Will you be using any fossil fuel which could lead to the generation of electricity? This refers to any fossil fuel used alongside the biogas, for electricity generation. Choose an item

If you have answered **‘Yes’** to **G1**, answer **G2** and **G3**.

1. What fossil fuel is used for generating the station’s gross output?



1. Briefly indicate how you will determine the quantity and gross calorific value (GCV) of any fossil fuel used, including how you will evidence these figures to us on a monthly basis.



## Section H – Determining the GCV of the biogas

For more information about this section, please refer to our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire.

1. State which method you will be using to determine the GCV of the biogas used. **🏱** Choose an item
2. Explain why this is an appropriate method to determine the GCV of the biogas. **🏱**



## Section I – Determining the volume of biogas used

For more information about this section, please refer to our [guidance note](https://www.ofgem.gov.uk/publications-and-updates/anaerobic-digestion-ad-fuel-measurement-and-sampling-fms-questionnaire-and-guidance-note-0) on how to complete your AD FMS questionnaire.

1. State how you will measure the volume of the biogas combusted each month. You should include details of the apparatus used to take the measurement, the location of where the measurement is taken and the unit of measurement. Also give details on the accuracy of measurement. **🏱**



## Section J – Additional Information

Use this space to include any other details you feel are relevant to your application. If you are using the answer space to expand on any of the answers provided above, make clear reference to the question you are answering by including the question number at the start of your response e.g. **D3.** Additional supporting documents may be provided but should also be clearly referenced in the question you are answering.



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## Section K – Confirmation 🏱

I can confirm that all the information provided is correct, to the best of my knowledge and belief.

I am aware that I need to notify Ofgem where any of the procedures detailed in this document and/or the feedstock/fuels change.

Name and position held at generating station



Thank you for completing the AD FMS questionnaire. Please review your answers and ensure you have answered all compulsory questions (marked with **🏱** symbol) and a suitable level of detail has been provided.

A member of the Fuelling and Sustainability team will make contact with you in due course.

E-mail – FuellingandSustainability@ofgem.gov.uk / Telephone – 020 7901 7310.