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BSI Standards Publication

Biogas — Biogas production, conditioning, upgrading and utilization — Terms, definitions and classification scheme

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National foreword

This British Standard is the UK implementation of EN ISO 20675:2021. It is identical to ISO 20675:2018. It supersedes BS ISO 20675:2018, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/15, Natural Gas and Gas Analysis.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2022

ISBN 978 0 539 18079 4

ICS 27.190; 75.020

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2018.

Amendments/corrigenda issued since publication

Date	Text affected
31 January 2022	This corrigendum renumbers BS ISO 20675:2018 as BS EN ISO 20675:2021

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EUROPEAN STANDARD EN ISO 20675

NORME EUROPÉENNE

EUROPÄISCHE NORM December 2021

ICS 27.190; 75.020

English Version

Biogas - Biogas production, conditioning, upgrading and utilization - Terms, definitions and classification scheme (ISO 20675:2018)

Biogaz - Production, traitement, épuration et utilisation du biogaz - Termes, définitions et classification(ISO 20675:2018)

This European Standard was approved by CEN on 29 November 2021.

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Ref. No. EN ISO 20675:2021: E

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European foreword

The text of ISO 20675:2018 has been prepared by Technical Committee ISO/TC 255 "Biogas" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20675:2021 by Technical Committee CEN/TC 408 "Natural gas and biomethane for use in transport and biomethane for injection in the natural gas grid" the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2022, and conflicting national standards shall be withdrawn at the latest by June 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 20675:2018 has been approved by CEN as EN ISO 20675:2021 without any modification.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 255, *Biogas*.

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Introduction

The technical committee on biogas (ISO/TC 255) was established in 2011 in order to

— provide liberalization and facilitation for international trade of biogas installations,

— contribute to international cooperation on technical regulations, standards and assessment procedures,

— curb discriminatory technical requirements as the main form of trade protectionism, and

— reduce and eliminate the technical barriers for international trade of biogas installations.

This document about terms, definitions and classifications is applicable for biogas production by anaerobic digestion, gasification from biomass and power to gas from biomass sources, biogas conditioning, biogas upgrading and biogas utilization.

The availability of a set of agreed terms and definitions for biogas installations, as well as a classification scheme for the whole biogas chain, is necessary in order to

— moderate the communication between the different biogas parties through meaningful discussions,

— facilitate development of regional and national regulations and incentive programs to promote biogas production and application,

— contribute to the reinforcement of biogas installations' safety and business competitiveness with recognized terms and definitions that clarify the actors' expectations related to procurement, contracts and services as well as reporting on biogas related action plans and road maps, and

— contribute to the use of standards by facilitating their development and furthering the users' understanding and application of standards.

ISO/TC 255 intends to promote international technology exchange and to accelerate international application of biogas (products) and equipment by developing and maintaining globally harmonized standards.

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INTERNATIONAL STANDARD ISO 20675:2018

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Biogas — Biogas production, conditioning, upgrading and utilization — Terms, definitions and classification scheme

1 Scope

This document defines terms and describes classifications related to biogas production by anaerobic digestion, gasification from biomass and power to gas from biomass sources, biogas conditioning, biogas upgrading and biogas utilization from a safety, environmental, performance and functionality perspective, during the design, manufacturing, installation, construction, testing, commissioning, acceptance, operation, regular inspection and maintenance phases.

Biogas installations are, among others, applied at industrial plants like food and beverage industries, waste water treatment plants, waste plants, landfill sites, small scale plants next to agricultural companies and small scale household installations.

The following topics are excluded from this document:

— boilers, burners, furnaces and lightening, in case these are not specifically applied for locally produced biogas;

— gas-fuelled engines for vehicles and ships;

— the public gas grid;

— specifications to determine biomethane quality;

— transportation of compressed or liquefied biogas;

— transportation of biomass or digestate;

— assessment and determination whether biomass is sourced sustainably or not.

This document describes the following for information purposes as well:

— the parameters to determine the size (e.g. small, medium-sized, or large scale);

— the parameters to determine the type of installation (e.g. domestic, industrial);

— the parameters to describe the type of technique;

— terms and processes in order to develop health, safety and environmental protection guidelines for biogas installations.

NOTE For an explanation of the Scope, see Annex A.

2 Normative references

There are no normative references in this document.

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