



Regulations

– in the Construction Sector

Introduction

This PDF provides an overview of the rules and mechanisms that shape the use of biogas in the construction industry. The document explains how the system works, why the regulations are relevant to you as a manufacturer, developer, or consultant, and how the process of biogas certification and Environmental Product Declaration (EPD) updating works in practice.

You will gain an understanding of:

1. The BR25 climate requirements and how biogas can be used to reduce CO₂ emissions in the A1–A3 material stages.
2. Who is covered and which actors in the value chain benefit most from biogas certification.
3. The practical workflow from baseline EPD to verified documentation.
4. Mass balance principles and how Guarantees of Origin (GOs) ensure traceability.
5. Flexible allocation models, allowing manufacturers to choose 100%, partial, or product-specific certification.

This section gives you a comprehensive and operational insight into how biogas can be used strategically to comply with BR25, strengthen product market positioning, and reduce the overall climate footprint of construction.



How the system works

The system is built on a core principle: building material manufacturers can reduce the climate footprint of their products by using certified biogas in production. This enables the construction sector to comply with BR25's climate requirements, including the limit of 6.7 kg CO₂e/m².year for single-family houses. When biogas replaces fossil natural gas in energy-intensive processes, the CO₂ footprint is primarily reduced in the A3 stage of the A1–A3 modules (raw material extraction, transport, and production), which represent the majority of total material emissions.

Several material categories have significant reduction potential due to very high-temperature production processes, such as bricks, insulation and glass.

This creates value on three levels:

- **Manufacturers:**
Updated EPDs with lower CO₂ values and access to green market segments
- **Developers:**
Low-carbon materials create room for larger projects within BR25 limits
- **Society:**
Reduction of embodied carbon - which accounts for 50–70% of the total climate footprint of low-energy buildings in countries such as Denmark

Documentation is based on the mass balance principle - ensuring full traceability. This includes:

- Physical delivery of biogas to the production facility
- Purchase and cancellation of matching Guarantees of Origin (GOs)

In this way, the system ensures that biogas is only counted once and that CO₂ reduction can be transparently documented in the product EPDs.

Why are the regulations relevant to you?

BR25 changes the framework conditions for the entire construction sector. The climate requirement of 6.7 kg CO₂e/m².year means that the carbon footprint of materials now directly influences which products and solutions can be used in future buildings. This makes biogas certification relevant for you on several levels:

For building material manufacturers

Biogas allows you to significantly reduce CO₂ emissions in the A3 modules, thereby improving your EPDs. Materials such as bricks, insulation, concrete and glass can reduce emissions substantially, making the products competitive in a market with increasing documentation and environmental requirements. Lower EPD values open the door to new green segments and public projects.

In short: BR25 makes the climate footprint of materials a competitive parameter. Biogas certification offers a practical, verifiable and market-oriented solution that strengthens product positioning, increases project flexibility and helps all parties deliver buildings that meet future requirements.

How it works in practice

In practice, the process is straightforward and built around documentation, traceability and updated EPDs. The process begins with a review of your existing EPDs, mapping the CO₂ footprint in the A1–A3 modules and the current gas consumption. Next, it is assessed how biogas can replace fossil natural gas in your energy use – either 100%, partially, or for selected product lines.

Once consumption is known, the corresponding number of Guarantees of Origin (GOs) is purchased. The GOs are cancelled at the time of purchase, ensuring that the biogas is only counted once, and all transactions are recorded in an EU database. This mass balance approach enables documentation that the energy used originates from biogas.

Based on the new energy mix, a certified LCA consultant prepares an updated EPD, where the CO₂ reduction is incorporated into the A1–A3 module. The EPD is verified by an independent third party and then becomes valid for five years.

Finally, the new EPD can be used in marketing, tenders, customer dialogues and BR25 projects. For developers and consultants, this means the material can be used directly in LCA calculations and help keep the project within climate limits, often resulting in greater design and volume flexibility.

Allocation and flexibility

Biogas certification is a flexible instrument that can be adapted to both production and market needs. Unlike quota systems, the scheme is fully voluntary and based on commercial agreements between manufacturer and supplier. This means you decide how much of your gas consumption should be certified. Some choose 100% for maximum CO₂ reduction and the strongest EPD, while others use partial certification or certify only their premium product lines.

Price and market

The market for certified biogas is characterised by high demand and limited supply, as energy-intensive industries across sectors compete for available volumes. This results in a premium over fossil gas.

For manufacturers, updated EPDs provide access to new projects and customer segments with strict climate requirements. For developers, low-carbon materials can be decisive for project approval within BR25 limits.

With increasing regulation and demand for low-emission materials, early access to biogas and GOs provides a strategic advantage, where documented CO₂ reduction becomes a central competitive parameter in tenders and certification.

In short

- BR25 tightens requirements for building climate footprints and material CO₂ levels now determine whether projects can proceed.
- Biogas certification allows building material manufacturers to reduce emissions—especially in A3 by 70–95%—and significantly improve their EPDs.
- Developers gain greater design and volume flexibility when choosing materials with low CO₂ values.
- Consultants benefit from easier, more stable LCA calculations based on verified and traceable data.
- The system is flexible: manufacturers can choose 100%, partial, or product-specific certification via mass balance.
- The market is moving rapidly toward low-emission materials – early access to biogas and GOs provides a clear competitive advantage.



Want us to help you move forward?

Would you like to know more about how biogas certificates can help you meet your reduction obligations?

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A strategic partner in non-fossil energy and CO₂ reduction since 1980.
Read more at: www.bigadan.com

Nye regler og udvikling

Danmark implementerer i øjeblikket RED III-direktivet, som stiller skærpede krav til bæredygtighed og sporbarhed:

- Krav om 70–80 % GHG-reduktion afhængigt af anlæggets alder
- Begrænsning på energiafgrøder (maks. 4 % – majs forbudt fra 2025)
- Strengere krav til dokumentation og “chain of custody”-systemer

Fra 2026 forventes desuden CO₂-afgiftsrefusion for grøn biogas i transport, hvilket vil styrke biogas som et konkurrencedygtigt alternativ til diesel.

Vær opmærksom på de fremtidige krav i 2030 i “Bekendtgørelse om reduktion af drivhusgasser fra transportsektoren m.v. og bæredygtighed”, hvor biogas kan få en større rolle.

Kort sagt

Iblandingskravet er både et lovkrav og en markedsmulighed. Med certificeret biogas og oprindelsesgarantier kan I:

- Dokumentere jeres reduktionsopfyldelse
- Skabe værdi og fleksibilitet i jeres grønne portefølje
- Styrke jeres profil som ansvarlig aktør i et marked med stigende klimakrav



Skal vi hjælpe jer videre?

Vil I vide mere om, hvordan biogascertifikater kan hjælpe jer med at opfylde jeres reduktionspligt?

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