



MARKET CONSULTATION

BIOMETHANE BOOSTER PACKAGES

For the benefit of N.V Nederlandse Gasunie

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1. GENERAL INFORMATION

1.1 Introduction

This guide provides information on the market consultation for biomethane boosters for N.V. Nederlandse Gasunie (hereafter: Gasunie).

Gasunie is currently in the process of preparing a new tender for the design, production and delivery of biomethane booster packages.

As a part of this process Gasunie is conducting this market consultation to gain insight into the extent of possibilities and interest in the market, as well as to determine how a potential tender could best be structured. Your response is greatly appreciated and will serve as one of the sources of information on which the follow-up strategy will be based.

The announcement of this market consultation was sent to TenderNed / TED for publication on 17 September 2026.

Gasunie is an energy network operator. In the Netherlands and the northern part of Germany, we manage and maintain the infrastructure for large-scale transport and storage of gas. At the moment, this is mainly natural gas, but the energy transition will increasingly bring about a shift towards green gas and hydrogen. We also collaborate in the construction and management of heat and CO₂ grids. We ensure that this part of the energy supply is safe, reliable and as sustainable as possible, ensuring that everyone has access to energy, always.

More information is available at www.gasunie.nl.

1.2 About biomethane (boosters)

Biomethane is a renewable gas produced from organic residual streams such as manure, sewage sludge, agricultural residues and other biodegradable waste materials. Once upgraded, biomethane can be injected into the existing gas infrastructure and used in the same way as natural gas.

A biomethane booster is a compression station that increases the pressure of green gas, allowing surplus production to be transported to areas where demand is available. It helps maximize the use of renewable gas and prevents curtailment during periods of low local consumption.

Typical applications are:

- Regional-to-transmission grid transfer (DSO-to-TSO)

A biomethane booster compresses biomethane from a lower-pressure regional distribution network (typical 6-8 bar) and injects it into a higher-pressure regional or national transmission network (typical 40-70 bar). This enables surplus biomethane produced in local distribution areas to be transported to a much larger market area.

- Gathering pipeline systems

Multiple local biomethane production sites can be connected through a dedicated gathering pipeline (typical 5-6 bar). Boosters are used to move the gas from the gathering line and onward to the national transmission network (typical 60-70bar), creating economies of scale and avoiding local network congestion.

2. CONTENT MARKET CONSULTATION

2.1 Purpose and goal

With this market consultation Gasunie aims to obtain input from the market on several questions and refine the scope for a planned European tender for biomethane booster packages. Additionally, Gasunie wants to reach potential participants in order to interest them for the upcoming tender and provide Gasunie with valuable input. The objective of the market consultation is to test and gain insight and overview in relation to:

- the extent in which the technical requirements as provided by Gasunie are relevant, realistic and achievable;
- the solutions the market offers in relation to the questions and requirements in this market consultation;
- the make-up of the market and what distinguishes parties within this market;
- the expected trend and developments in the market of biomethane booster packages;

We encourage market parties to share their ideas and perspectives and are keen to discuss these openly to identify the most effective solutions together.

Our goal is to publish a tender to which parties can relate and in which they want to participate. In preparing this tender, Gasunie aims to find the optimum tender approach and solution concept for the anticipated future needs. This includes exploring whether the tender should focus on one preferred standardized solution or allow for multiple solution types, technologies or configurations where this would better support efficiency, reliability, flexibility and value for money.

Gasunie intends to use the insights and information obtained through this market consultation, where relevant, in preparing the European tender and the accompanying tender documents. At the same time, Gasunie reserves the right not to use these insights and information, or not to use them in full. By carefully considering the market input received, Gasunie aims to shape the tender and the related requirements in a transparent and well-informed manner.

2.2 Scope

Gasunie expects a significant increase in biomethane production in the coming years, while overall demand for natural gas is expected to gradually decline. As a result, regional and national gas networks may increasingly experience periods in which local or regional biomethane production exceeds available demand or transport capacity. Whereas current challenges are mainly related to local constraints, future developments may create larger regional and, ultimately, national transport challenges.

To maintain network accessibility and to enable the continued growth of renewable gas injection, Gasunie foresees an increasing need to actively transport biomethane from areas with a production surplus to areas with sufficient demand, storage opportunities or connections to the national transmission network. Biomethane boosters are expected to become an important future asset category to support this development.

The objective of this market consultation is to better understand available technical solutions, supplier capabilities, preferred contracting approaches and potential opportunities for standardization before launching a future European tender.

2.2.1 **Intended application of Biomethane Boosters**

The future biomethane infrastructure is not expected to rely solely on compression equipment. Instead, Gasunie anticipates a combination of:

- connection of regional gas networks;
- construction of gathering pipelines;
- compression from Local Distribution Networks (RNB 8 bar) to Regional Transport Networks (RTL 40 bar);
- compression from regional systems (RTL 40 bar) towards the High Pressure Transmission Network (HTL 70 bar).

2.2.2 **Expected market volume**

Analysis of future biomethane surpluses indicates that substantial transport needs may emerge across multiple regions. Current studies indicate an overall potential demand in the order of approximately 10 to 15 booster installations for transport towards HTL systems and approximately 5 to 25 booster installations for transport from RNB to RTL systems. This results in a total indicative potential demand of approximately 15 to 40 booster installations.

These figures are indicative and reflect different market development scenarios, including variations in biomethane production growth, future gas demand, gathering pipeline development and network configuration. Several booster projects have already been ordered or are currently under development.

2.3 **Indicative Technical Specifications**

2.3.1 **Use case 1: compression from RNB to RTL**

The primary application expected in the coming years is the transportation of surplus biomethane from Local Distribution Networks (RNB 8 bar) to Regional Transport Networks (RTL 40 bar).

This application is driven by local oversupply situations where local consumption is insufficient to absorb available production.

Expected operating characteristics include:

- high utilisation during summer periods;
- frequent operation during weekends and night-time hours;
- increased activity during spring and autumn;
- limited utilisation during winter months;
- frequent start-stop operation.

As a result, equipment suitability for cyclic operation may be as important as nominal capacity.

Indicative operating conditions are expected to be:

Parameter	Indicative condition
Suction pressure	5–8 barg
Discharge pressure	30–40 barg
Standard capacity	Approximately 4,000 Nm ³ /h

Current analyses indicate that a booster capacity of approximately 4,000 Nm³/h is likely to become the predominant standard size for this application. A capacity of 2,000 Nm³/h may remain relevant for specific applications, while multiple 4,000 Nm³/h units may be preferred over introducing many

different machine sizes as they appear suitable for most expected projects. Future requirements may also justify N+1 configurations or modular capacity expansion concepts.

2.3.2 Use case 2: gathering pipelines towards HTL

The second major application concerns transportation from gathering pipelines towards the High Pressure Transmission Network (HTL). Compared with the RNB-to-RTL application, these systems are expected to operate under more stable conditions because multiple biomethane producers may be connected to the same gathering line, larger pipeline volumes reduce fluctuations and network balancing effects smooth production variations. Some future gathering systems may operate close to baseload conditions.

Indicative operating conditions are expected to be:

Parameter	Indicative condition
Suction pressure	Approximately 5-8 barg
Discharge pressure	60–70 barg
Capacity range	4,000–8,000 Nm ³ /h and potentially larger

Because of the more stable operating profile, Gasunie is interested in understanding whether compressor technologies other than reciprocating compressors may offer advantages. Supplier feedback is specifically sought on the technical, operational and economic advantages of different compressor concepts, including centrifugal compressors for baseload operation, reciprocating compressors for peak-load and operational flexibility, and screw compressor solutions where relevant.

2.3.3 Preliminary tender scope and topics of interest

Based on current insights, Gasunie considers a tender structure consisting of two main categories: RNB-to-RTL boosters and HTL or gathering pipeline boosters.

- **Category 1 – RNB to RTL boosters:** indicative capacities of 2,000 Nm³/h and 4,000 Nm³/h, compression from 5–8 barg to 30–40 barg and design for frequent start-stop operation.
- **Category 2 – HTL / gathering pipeline boosters:** indicative capacities of 4,000 Nm³/h and 8,000 Nm³/h, compression from approximately 8 barg to 60–65 barg, suitability for continuous or near-continuous operation and high availability requirements.

2.3.4 Key question for the market

Gasunie would like to understand how equipment suppliers and integrators view the anticipated use cases, capacity ranges and operating profiles described above, and whether alternative standardization strategies, technology selections or delivery models could provide a more efficient, reliable and cost-effective solution for the anticipated future market.

Overall, current analyses suggest that the 4,000 Nm³/h booster configuration may become the dominant standard platform for future biomethane transport projects. The combination of long-term market studies and operational experience indicates a potential market volume of approximately 15 to 40 booster installations over the coming years, making standardization an important consideration for both Gasunie and the supplier market.

Gasunie is also particularly interested in understanding whether gas engine-driven compressors could provide a practical transitional solution for locations affected by grid congestion, while maintaining flexibility for future electrification.

2.3.5 Additional topics of interest

In addition to the main use cases and preliminary tender categories described above, Gasunie seeks market input on several related technical and design aspects that may influence the future standardization, configuration and delivery of biomethane booster installations.

Topics of interest include:

- capacity requirements above 8,000 Nm³/h;
- selection of compressor types, including centrifugal, reciprocating and screw compressor solutions;
- the preferred enclosure concept, such as containerized solutions, concrete buildings or alternative enclosure types;
- cooling concepts, including the type and application of air-fin coolers;
- typical and achievable noise levels;
- typical foundation layouts and other relevant design considerations;
- centrifugal compressors for baseload operation;
- reciprocating compressors for peak load and operational flexibility.

Your response to this market consultation can be given using Annex A. More information about submitting your response can be found in paragraph 3.1.1.

3. PROCEDURE, PLANNING & CONDITIONS

3.1 Structure & format

This market consultation has been published on TenderNed and TED. The market consultation document is digitally available at www.tenderned.nl. Based on this document, market parties can gain an understanding of the potential scope of the European tender. To gain insight into the market, Gasunie has formulated a number of questions, which are included in Annex A. This annex serves as the response form for market parties to answer the questions.

3.1.1 *Submitting responses to the market consultation*

To respond to the market consultation, please use the response form provided in Annex A. We kindly ask you to provide well-reasoned and clear explanations with your answers. Once completed, the document can be sent via email to the contact person listed below. We kindly request that your responses be submitted no later than the date and time specified in paragraph 3.2. In addition to submitting your response through Annex A we encourage you to submit additional information, drawings and photographs.

3.1.2 *Clarification*

If desired, Gasunie has the option to initiate a dialogue with one or more participants based on the submitted information. If Gasunie wishes to use this option, you will be contacted to schedule a meeting within the timeframe as listed in paragraph 3.2.

Gasunie may choose to make use of this option but is not obligated to do so.

3.1.3 *Contact*

The contact person for this market consultation is Ida Consenheim, Senior Buyer European Tenders. She can be reached at i.f.consenheim@gasunie.nl.

It is not permitted to contact any person other than the person mentioned above in connection with this market consultation.

3.1.4 *Conclusion of the market consultation*

Gasunie will carefully consider the responses received, where relevant, in preparing the European tender. Gasunie may include a summary of the market consultation as an annex to the European tender. If such a summary is included, it will provide an aggregated overview of the insights and information obtained. Sensitive or confidential business information will not be published. By participating in the market consultation, parties agree that the information and/or data they provide may be used for this purpose, in accordance with the confidentiality provisions set out in paragraph 3.3. The summary, if prepared, will be published in its final form and will not be shared in draft with the participating parties beforehand.

3.2 **Planning**

Activity	Date / Period
Publication market consultation	Thursday 17 September 2026
Deadline for submitting responses (Annex A)	Friday 16 October 2026
Clarification meetings (optional)	3, 4 or 11 November 2026

3.3 **General conditions**

By participating in this market consultation, market parties are deemed to agree to the following conditions:

- communication may take place in either English or Dutch;
- all communication regarding this market consultation should take place exclusively through the contact person mentioned in paragraph 3.1;
- responses will be treated confidentially and will only be shared within Gasunie where relevant for the purposes of this market consultation;
- the information provided will be used solely for further research, analysis and preparation in relation to the European tender;
- the scope and requirements of the future tender may be adjusted on the basis of the information received;
- Gasunie is not bound by the results or outcomes of this market consultation;
- participants cannot derive any rights from this market consultation or from their participation in it;
- if necessary or useful, Gasunie may contact market parties to request additional information or clarification;
- Gasunie reserves the right to amend the planning if needed.

3.4 **Nature of market consultation and reimbursement of costs**

Gasunie stresses that the market consultation is of a non-binding nature for both Gasunie and participants. This market consultation does not create any obligation for Gasunie to procure or purchase any services or products. Participants cannot derive any right from this market consultation.

Participation in this market consultation by participants does not lead to any advantage or disadvantage in any (future) acquisition path or tender procedure to be started by Gasunie.

The costs of participating in this market consultation shall be borne entirely by the participant. Gasunie reserves the right to suspend and/or terminate all or part of the market consultation. Participant(s) shall not be entitled to any form of compensation in such a situation.

3.5 **Intellectual property**

All intellectual property rights, including copyright, which are based on documents and information provided by Gasunie in the context of this market consultation, including in any case the market consultation document (this document) and explanations provided, both oral and written, are vested in Gasunie.

Except as provided for by the Copyright Act ('Wet Auteursrecht'), no reproduction of the documents and their attachments may be made by printing, photocopying, scanning, microfilm or otherwise

without the written consent of Gasunie, except if and to the extent reasonably necessary for the correct and complete answer to the questions.

3.6 Terms of agreement

Dutch law applies to this market consultation.

By accepting this request or submitting your reply, you indicate your unconditional agreement to the terms and conditions contained in this market consultation document.

3.7 Errors and contradictions

All documents, including any accompanying annexes following the present market consultation, have been compiled and prepared by Gasunie with the utmost care. In the event that a participating party finds errors, irregularities, inconsistencies or ambiguities, we kindly but urgently ask you to inform Gasunie.