



Program of requirements
Technical services management and maintenance
WS
N.V. Nederlandse Gasunie

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1 Introduction

1.1 N.V. Nederlandse Gasunie

Gasunie is an energy infrastructure company that manages the infrastructure for large-scale transport, storage, and conversion of gas in the Netherlands and northern Germany. Currently, this primarily involves natural gas, but with the energy transition, the focus is shifting toward green gas and hydrogen. Additionally, Gasunie is involved in the construction and management of networks for heat and CO₂. For more information about Gasunie, you can visit our website at www.gasunie.nl.

1.2 Context

The gas transport system of Gasunie includes not only over 12,000 kilometers of pipelines but also thousands of (gas) installations. Gasunie performs various maintenance and projects to optimize this gas transport system in terms of lifespan, safety, efficiency, etc. Support is needed in the form of (lab) research, measurement and test setups, pressure tests, analysis of oil samples, performance tests on valves, regulators, etc. These involve issues that arise during the maintenance process and need further investigation. The service can be provided ad-hoc (for example, during emergencies) or planned for process optimization or maintenance improvements.

This tender and the resulting agreement pertain to technical services for management and maintenance unrelated to gas quality.

Gasunie is evolving over the coming years into a broader network company that plays a key role in the energy transition. In this context, other networks are also being developed, such as:

- Heat networks (WarmteLinQ)
- CO₂ storage and transport (Porthos)
- Hydrogen network

Gasunie thus has a central role in the energy supply of the Netherlands. Geopolitical developments can also influence Gasunie's activities, as recently demonstrated by the rapid development of an LNG terminal in Eemshaven (EemsEnergy Terminal). Service providers are expected to adapt to the various networks, transported mediums, and activities that Gasunie undertakes and to provide support in all these areas.

Objective

Gasunie aims to receive this support in a structured manner and seeks to be relieved of these tasks by the supplier. As a gas transporter, we need knowledge and expertise to maintain and optimize our processes. The scope of work is very broad and requires a flexible approach. The services focus on:

- (Process) equipment of gas installations
- Cryogenic installations
- Nitrogen installations
- HVAC systems
- Low and high voltage installations
- Other industrial installations common in the oil and gas industry and petrochemical industry

- Hydrogen installations
- LNG installations
- CO2 installations
- Heat networks

Description of Services

Analysis, testing, and consulting in various areas not directly related to (natural) gas and gas quality and not part of a larger project.

1.3 Scope

#	Service	Example
1	Measurements on (process) installations, such as flow, pressure, temperature, voltage, sound, emissions, etc.:	• Emission measurements on a gland packing; • LEL (Lower Explosive Limit) measurements in an oil skid; • Infrared measurements of harmonic filters; • Flow measurements in cooler banks; • Temperature measurements in cooling water systems;
2	Calculations and investigations related to strength, flow, heat, lifespan, etc.:	• Determination of bag filter lifespan; • Compressor efficiency calculations; • Strength-related aspects in pressure reduction;
3	Analyses of compositions of solids, liquids, fats, and gases:	• Determination of glycol ratios in samples; • Analysis of liquid samples; • Oil sample analysis; • Analysis of solid materials; • Determination of sample acidity; • Investigation of gas pipeline interior contamination; • Examination of samples from a membrane unit;
4	Performance testing and application of equipment:	• Shut-off valve tests; • Spectrometer testing;

		• Leak detection equipment testing; • Investigation of breakthrough times for respiratory protective equipment; • Stability determination of odorant cylinders;
5	Material investigations	• Examination of material blistering;
6	Fault analysis (mechanical, instrumentation, electrical):	• Investigation into the origin of measurement discrepancies; • Study of compressor faults and failures;
7	Advisory services for maintenance optimization and asset utilization:	• Impact assessment of changes in return temperature for boilers; • Investigation of the impact of pressure increase in compressor manifolds; • Support for noise emission reduction; • Assistance with firmware upgrades for sulfur analyzers;
8	Evaluation of alternative equipment options:	• Support for specific equipment procurements, such as gas chromatographs;
9	Other matters:	• Assessment of blowdown contours; • Research into regulations related to mobile recompression; • Jury work/reviews; • Uncertainty modeling;

The scope of this agreement pertains solely to standalone tasks and does not include tasks that fall within the scope of a project. If the tasks are part of a project, they are covered under the scope and the agreement established for that specific project. This applies

regardless of whether the tasks have substantive overlaps or similarities with the tasks covered under the scope of this agreement. Whether tasks are part of a project is to be determined at the sole discretion of Gasunie.

1.4 Out of scope

- The scope of this agreement pertains solely to standalone requests and does not include requests that fall within the scope of a project. If the tasks are part of a project, they are covered under the scope and the agreement established for that specific project. This applies regardless of whether the tasks have substantive overlaps or similarities with the tasks covered under the scope of this agreement.
- Measurements of (natural) gases to determine the physical-chemical properties or composition and the examination, advising, and calibration of measuring instruments for this purpose, for the sake of accountable traffic.

Given the broad nature of the requested services, it may occur that tasks are requested which you cannot perform or cannot perform according to market standards. In such cases, Gasunie reserves the right to source the service elsewhere. However, Gasunie expects the contractor to make every effort to perform these tasks. Gasunie expects that the inability to perform tasks should only apply in exceptional cases.

1.5 Interfaces with other agreements

Additionally, due to the broad scope, there may be some overlap with existing contracts for specific services. For example, there are contracts with parties for:

- Noise measurements and noise modeling (in the context of permitting)
- Measurements on rotating equipment (vibration measurements on compressors)
- Calibration of gas analysis equipment
- Investigations into pipeline integrity
- Engineering for projects and new construction
- Etc.

Therefore, tasks may be performed by third parties that have interfaces with this scope.

1.6 Request and Pricing

The analyses will be requested in three categories:

1. Analysis of a liquid
2. Analysis of oils and greases
3. Analysis of a solid

You are asked to create a unit price per category, balancing differences in processing time/treatment/required materials, etc. This way, Gasunie aims to maintain an overview and significantly reduce the administrative burden/control of the assignments.

The analysis rate includes all costs: reporting, research, hours, use of GC, electron microscope, or other analysis equipment, etc. The goal is for Gasunie to have one fixed location from the service provider where the samples can be sent and processed. If further (internal) distribution is necessary, this will be organized by the service provider, and any costs are already included in the rate. This may be the case if a specific analysis needs to be performed at another location or by a third party.

Additionally, an hourly rate per type of service is requested with the following classification:

1. Research
 - Research- and preparational work that requires limited experience of 0 to 3 years. Work executed under supervision and assistance with field work.
2. Examination
 - Examination, measuring and analysis. Reasonable experience required. Indication 3 - 10 years. Able to provide consultancy independently with specialist knowledge.
3. Supervision
 - Final responsibility, reviews and checks reports. Adds highly specialist knowledge and expertise. Highly experienced (> 10 years)

These hourly rates are linked to the specific level of the task to be performed within the scope of an assignment and not directly to a person. It is possible for one person to perform an assignment at different rates. For example, hours for preparation work and document research would fall under the Research rate, while drafting the final report with conclusions and advice based on the correct expertise and data would fall under the Supervision rate.

In addition to the standard rates, costs may arise from renting equipment, purchasing materials, acquiring certain raw materials, etc. These costs may be passed on to Gasunie on a one-to-one basis. It is not intended for a profit margin to be added on top of these costs.

For each assignment, Gasunie will provide the contractor with a description that allows for a substantive quote for that assignment. There must always be explicit approval of the quote before starting the assignment. A quote can consist of the following components:

1. The number of required hours per level; and/or
2. The number of analyses; and/or
3. Any additional costs for rental or purchase of specific equipment needed for execution of studies or investigations, etc.

If only an analysis is requested, the quote will consist solely of the rate for these analyses.

1.7 Requirements

Minimum requirements
General Requirements
1. The supplier must be able to handle the pressures common at Gasunie, up to 80 bar, occasionally up to 250 bar. Therefore, equipment may be required to be tested at these pressures.
2. Gasunie has its own procedures and standards for work and quality. Where applicable to a specific assignment, Gasunie will make these available, and you are required to follow them.
3. For standard analyses, the contractor must coordinate the methodology with Gasunie once per analysis, after which it can be carried out routinely in the same manner.
4. There is a maximum of one intermediary in the chain to the person performing the work. The supplier can and may, under its responsibility, have the assignment or parts of the assignment carried out by a subcontractor, whereby the conditions and requirements that Gasunie sets for the supplier must be translated one-to-one to the subcontractor. This applies to the entire service.

5. Where applicable, you must test according to generally accepted standards. Where this is not the case, you must coordinate a test plan with Gasunie.
6. For each assignment, you must coordinate a plan of approach with Gasunie and deliver a final report that includes at least these points from the plan of approach.
7. You can handle and work with hazardous substances.
8. You must be familiar with working according to (international) standards, manuals, and protocols.
9. You are active in all parts of the requested service.
10. You meet the other minimum requirements as stated in the Tender Guide , including Gasunie's code of conduct.
11. If requested, you must report in English at no additional cost.
12. The service must be performed in accordance with all applicable standards; the supplier is expected to know these and keep track of changes/developments and inform Gasunie accordingly.
13. The supplier has sufficient knowledge and experience to perform the requested service at the required level.
14. The supplier must have the necessary measuring and analysis equipment.
15. The on-site employees of the service provider must have a valid VCA safety certificate.
16. You must perform the work in accordance with safety standards and procedures common in the oil and gas industry (VCA and ATEX).
17. The service provider follows all mandatory courses by Gasunie to have access and be allowed to work on locations. This includes, for example, following the Gasunie Gate Instruction: Gasunie Poortinstructie.
18. All data provided by the contractor is filled in truthfully and can be upheld by the contractor. Gasunie reserves the right to claim damages in case of incorrect and/or incomplete information and/or the inability to comply with what has been offered by a contractor.
19. There are no costs for Gasunie associated with the registration. In the pre-contractual phase, the contractor bears its own costs. As long as no full agreement has been reached and a written agreement signed by both parties has been established, there is no binding obligation for Gasunie. In that case, there is also no obligation to compensate any damage or costs.
20. As indicated in the code of conduct, the contractor fully adheres to the '10 Golden Rules of Safety', the details of which can be found at: 10 Golden Rules of Safety.
21. The contractor commits to a performance obligation to allocate at least 5% of the contract sum, excluding VAT, for Social Return.
22. The contractor must periodically report on the implementation of social return based on Gasunie's Social Return principles as stated in Annex 9
Legal Requirements
23. The supplier understands and accepts that Gasunie becomes the owner of the Intellectual Property of the reports, files, and information provided by you in the context of these assignments/the contract to be concluded.
Commercial Requirements
24. The rates/prices to be included in the registration are in Euros, excluding VAT. Price indications and calculations of assigned figures will be given up to a maximum of two decimal places.
25. The Price Model Form includes an instruction with specific requirements regarding the pricing sheet. The contractor agrees with the content of the instruction.

26. All prices communicated by the contractor include all possible costs, taxes, and levies (including travel costs, labor costs, material costs, handling costs, execution, aftercare, overhead, travel, and other costs). During the entire contract period, the contractor will not charge any additional costs.
27. The invoicing of agreed-upon defined projects will take place after their completion. For hourly-based work, invoicing will take place: 1. Once a month or every 4 weeks based on actual progress or, if agreed upon. 2. Based on a fixed agreed number of hours: after the completion of the project or at milestones in that project
Requirements for Communication and Management Information
28. The service provider appoints a fixed national contact person/account manager. This person is reachable during office hours, is competent, authorized to make decisions, flexible, and can act adequately.
29. For on-site assignments bidder ensures that there is at least one employee present capable of communicating in business Dutch.
30. During the first year of the contract, quarterly meetings will take place between the service provider's account manager and Gasunie's contract manager. After the first year, annual meetings will be held between the service provider's account manager and Gasunie's contract manager and purchaser. The service provider is responsible for initiating and documenting these meetings.
31. The service provider is expected to inform, advise, and support Gasunie in monitoring trends and developments in the requested services.
32. Management information must be provided digitally to Gasunie's contract manager and purchaser. Upon Gasunie's request, coordination regarding the management information may take place within ten days after delivery.
33. The service provider must deliver the management information to Gasunie twice a year (within four weeks after the end of the half-year).
34. Gasunie reserves the right to modify or supplement the requirements regarding the management information. The service provider is expected to cooperate in this regard, and no additional costs may be charged for this.
Personnel Requirements
35. The bidder must inform the personnel to be deployed about the obligation to maintain the confidentiality of Gasunie's confidential information that may come to their knowledge, and the personnel must comply with Gasunie's house rules, see Appendix 1: Gasunie Code of Conduct.
36. The bidder ensures that the assigned tasks proceed without interruption and are carried out properly and completely. The bidder ensures at all times that this progress is not interrupted by illness, vacation, or other forms of absence of all personnel assigned tot the task. In such cases, the bidder will immediately take measures to make the required arrangements or deploy replacement personnel. Replacement personnel must be trained, competent and equivalent to the regular staff.

37. A value of two (2) percent of the annual financial scope of the agreement must be used by the client to create social value in accordance with Appendix 9: Social Return Gasunie. After awarding the contract, the supplier and Gasunie will consult on how this can be implemented.