

REQUEST FOR INFORMATION
Nitrogen Production Capacity Increase
08 January 2026, Rev. 01

INTRODUCTION. AB ORLEN Lietuva is an integrated downstream company in Lithuania with its principal asset being Crude Oil Refinery located in Juodeikiai village, Mažeikiai District Municipality, in North-West part of Lithuania. ORLEN S.A. is the single shareholder of AB ORLEN Lietuva which is the only refinery in the Baltic States.

In the Refinery, nitrogen is used for a variety of applications, including processes which require to create inert environment and purging. Currently, nitrogen production capacities are sufficient. However, ORLEN Lietuva has completed an internal analysis of process streams to investigate potential future needs which showed that nitrogen production capacities should be increased to ensure stable operation of the Refinery in the future.

To ensure sufficient availability of nitrogen for every process unit, including future new projects, new units with increased nitrogen production capacities are required.

PURPOSE. The purpose of the present RFI is to collect information from potential suppliers, i.e. to obtain non-binding technical & commercial proposals, concerning increase of nitrogen production capacities in the Refinery, which would allow AB ORLEN Lietuva to identify the potential of this project and potential suppliers would have an interest, required expertise and capacities to undertake such project. The expectation of AB ORLEN Lietuva is to obtain information which would allow to estimate what preliminary CAPEX, ISBL installations, and utilities might be required for this purpose. After evaluation of received information from economical point of view, Request for Proposal (RFP) for further development of this project is expected to follow.

OWNER'S POSITION. *The information will be provided upon signing a nondisclosure agreement. Please submit the signed Nondisclosure Agreement via the CONNECT procurement platform under the Questions/Answers section.*

AB ORLEN Lietuva invites to share as much information as possible, including the following:

- Process/technology description;
- Operating conditions;
- Key design requirements (e.g. EX, metallurgy, etc.);
- Unit throughput;
- Turndown ratio;
- Efficiency;
- Lifetime of replaceable parts;
- Safety requirements;
- Process flow diagrams (preferably PFDs);
- Product yields (recommendations of each product and by-product use);
- Preliminarily heat and material balance;
- Properties of products (purity, pressure, etc.);
- List of utilities with consumption;
- Consumption of chemicals, catalysts, absorbents, adsorbents, etc.;
- Rough pricing of chemicals, catalyst, absorbents, etc.;
- Plot area (separating main technology and supplementary facilities, if any);
- Typical Plot Plan configuration;
- Properties and quality of other process inputs, if any;
- Rough order of magnitude estimate (ROM) (accuracy class, list of excludes and includes of OPEX/CAPEX);
- Maintenance schedule (points which require most effort);

- Maintenance expenses;
- Typical number of operators needed;
- Summary of technology's advantages;
- Reference list;
- Schedule of the project (for required stages, i.e. design, manufacture, delivery, construction and other stages as required) and recommended execution formula (i.e. E, E+PC, PC or full EPC)

TARGET. To get at least two non-binding technical & commercial proposals in response to this RFI.

EXPECTATION. AB ORLEN Lietuva invites and expects potential suppliers to share as much information regarding technology, CAPEX/OPEX, etc. as possible as this information will allow AB ORLEN Lietuva to understand what technological solutions might be available and what potential indicative CAPEX/OPEX might be required for this project better. ISBL CAPEX should be based on capacity benchmarking, consistent with conceptual level studies, developed on the basis of non-confidential information or confidential information (after NDA signature) from technology provider, in-house database and/or reliable/validated public domain data using reliable proration factors (exponent). CAPEX should include FEED development as well, if needed, and description of all assumptions and indication what was included and what was excluded.

TIME/SCHEDULE. Please indicate potential time frame for full implementation of nitrogen production increase project (duration from design stage to the performance test). Please also specify what type of contract you could assume to execute (e.g., E, E+PC, PC or full EPC).

Q&A. *The information will be provided upon signing a nondisclosure agreement. Please submit the signed Nondisclosure Agreement via the CONNECT procurement platform under the Questions/Answers section.*