

**Construction, Operation and Maintenance for
“Puerto Rosales LNG Terminal” Project
Invitation for Expression of Interest (EOI)**



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1. PROPOSAL OVERVIEW

This Expression of Interest (“EOI”) is for Energía Argentina S.A. (“ENARSA”) to receive information and interest confirmation from potential suppliers in connection to the Construction, Operation and Maintenance (“COM”) of a new LNG Terminal in Argentina.

The Company

ENARSA is a company that was created in 2004 to make strategic actions with regards to Argentina’s natural resources, which constitute a key and essential factor for the sustainable economic growth of the country. To accomplish this, we have been making progress and developing a wide range of activities that are essential for the growth of the country’s energy matrix and economy. Examples of this are the construction of new power plants, recycling plants, wind farms, gas pipelines and exploration and production of oil and gas.

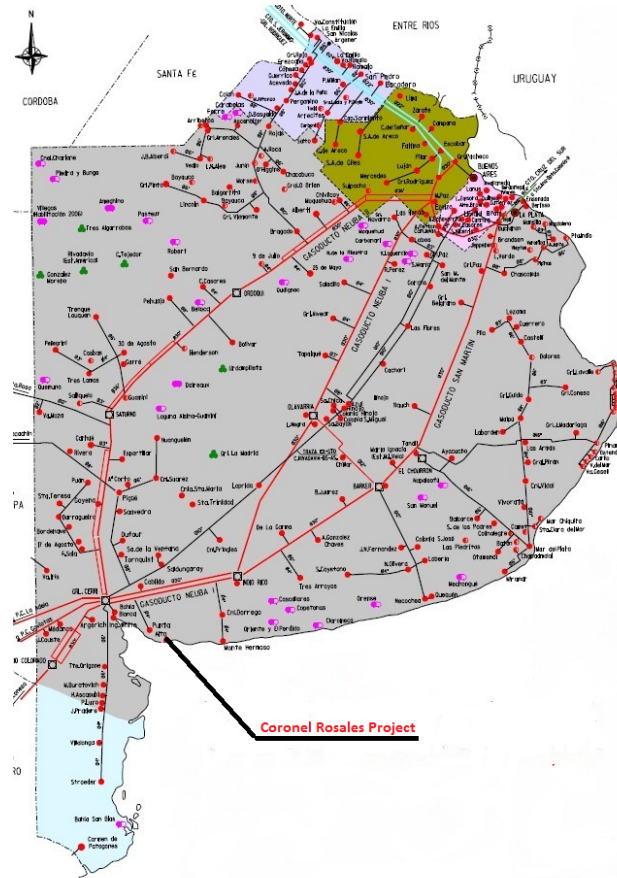
The main purpose of our company is to efficiently develop and supply energy to Argentinian citizens in all its forms, in compliance with the public policies established by the National Government within a framework of respect for society and the environment, thus contributing to the sustainable growth and the quality of life of all citizens and encouraging the development of local technologies.

The Project

“Puerto Rosales” Project is planned to be an offshore regasification terminal, with a FSRU moored at the port.

- **Location:**
 - Puerto Rosales, Punta Alta, Buenos Aires Province, Argentina
 - Seawater temperature: between 9 C° and 15 C°

Expression of Interest ENARSA LNG Terminal Requirement



- **Scope of the Project:** Construction of a 40kms aprox natural gas pipeline, a berth for the LNG terminal and complimentary installations, according with the Project Description (FSRU is out of scope), plus Operation & Maintenance of the Terminal during contract duration.

Note: In case your company is also interested to participate in the tender process to supply a FSRU, which would operate with the new Terminal, this must be indicated in the Proposal.

- **Contract duration:** Ten (10) years from beginning of commercial operation of the terminal.
- **Project financing:** by Contractor
- **Repayment Period:** 10 years from commercial operation

2. PROJECT DESCRIPTION

Puerto Rosales Project consists of an offshore LNG Terminal, with a FSRU moored at it, and a 40 km (aprox.) natural gas pipeline connecting LNG Terminal to Argentina’s natural gas system pipeline, located at Punta Alta, Buenos Aires Province, Argentina.

On a second stage, Terminal will permit the mooring of a Natural gas Liquefaction, storage and LNG discharging facility (potentially a barge specifically designed for this proposal)

LNG Terminal: port facilities have to be designed in order to berth a Q-max FSRU vessel size maximum (Base case) It also must be designed to berth FSRU's of lesser capacities.

Regasified natural gas will be sent from FSRU to the connecting pipeline by a regasification arm (High Pressure Arm) installed on the LNG Terminal, to be provided by the Contractor.

Regas arm (HP arm) and Connecting Pipeline: must both have the capacity to receive up to 30 MMCBMD (thirty million cubic meters per day) of regasified natural gas (FSRU's Peak capacity). Guaranteed send out capacity requested to FSRU will be not less than 17 MMCBMD (seventeen million cubic meters per day) of regasified natural gas.

- Enarsa will provide the preliminary studies listed below at a further stage (RFP):
 - a) Previous feasibility studies
 - b) Environmental impact study
 - c) Bathymetry study (considering Q-max vessel and also standard vessel dimensions)
 - d) Vessels (FSRU and LNGC) mooring and unmooring operation (considering above vessel measures).
 - e) Vessel traffic simulation.
 - f) Wave scale, and wind, speed and direction, studies.
 - g) Tide analysis.
 - h) Any auxiliary port facilities (oil pollution, fire installations, etc.)
 - i) Port services (electricity, fresh water, etc.)
 - j) Pipeline connection (lay out, from terminal to natural gas system).
 - k) Risk analysis (HAZID-HAZOP studies)

3. THE PROPOSAL

The Proposal must include:

- Company's experience and background information regarding construction, operation and maintenance of oil & gas facilities.
- Project's preliminary engineering, detailing technical information regarding construction of LNG Terminal and port facilities, connecting pipeline and auxiliary installations (both off shore and on shore)
- Preliminary Project Financing structure Proposal
- Estimated Schedule of the Project

4. TIMELINE SCHEDULE

The envisaged timeline schedule is as follows:

Date	Action
Dec. 2016	Potential COM Suppliers submit non-binding expressions of interest
Dec 2016	ENARSA will answer Questions and Clarifications
Jan 2017	Selection of RFP Participants
Feb 2017	Launch of RFP
March 2017	The Preferred Supplier is selected. ENARSA and the Preferred Supplier sign respective agreements
May 2017	Execution of COM Definitive Agreements.
3Q2018	Terminal Start up. First Gas.

5. CONFIDENTIALITY

ENARSA and bidders agree to maintain strict confidentiality over the confidential information disclosed, and shall not trade, publish or otherwise disclose to anyone in any manner whatsoever, without prior consent of the disclosing party, except in connection with the performance of activities conducted for the purposes of the Project.

6. DEADLINE/CONTACT

Submission for this EOI is due by 5:00 PM Buenos Aires (GMT-3) on December 28th 2016, and should be addressed to:

Candela Lavie
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Candela Lavie will be the point of contact for any questions/clarifications by participants.