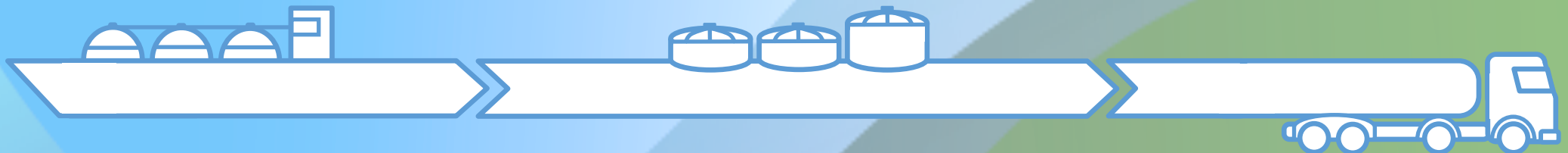


LNG TRUCK LOADING

SERVICE IN REVITHOUSSA LNG TERMINAL

LNG Truck-Loading (TL) is the process of filling specially designed trucks or trailers, in order to transport LNG. LNG trucks can carry significant amounts of energy by road, simulating a virtual pipeline, and providing high versatility in natural gas supply. LNG TL offers a versatile solution for transporting LNG quantities inland, that can serve

industrial consumers, truck to ship bunkering, truck to vehicle fueling, or supply off-the-grid areas or remote distribution points, acting as virtual pipelines. Furthermore, TL Services (TLS) can be combined with other ssLNG Services by creating a relatively flexible network of larger and smaller LNG distribution hubs.



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OPERATIONAL PROGRAMME
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ΕΣΠΑ
2014-2020
ανάπτυξη - εργασία - αλληλεγγύη
Partnership Agreement
2014 - 2020



The Truck Loading Facility of Revithoussa

Technical Description

The TL Facility will be integrated to the Revithoussa LNG terminal. LNG from the LNG storage tanks shall be supplied to the TL Facility.

2 PERAMA MEGARIDOS

3 ALMYRA JETTY

REVITHOUSSA

1 ELEFSINA PORT

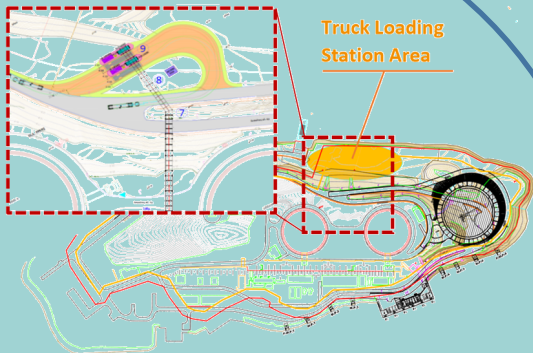
Transit Ports

The LNG trucks will be transported to Revithoussa by ferry.

Three ports will be used throughout the project lifetime, the first in Elefsina, the second in Perama Megaridos, and the third and permanent one in Almira, Megara.

The port of Elefsina will be the first operational port, which will serve as a transitional solution. Perama Megaridos port will be used as an intermediate solution, until the permanent solution, the Almira port, enters into operation.

The ferry will be able to transfer up to two LNG Trucks per trip.



The Truck Loading Service

Timeslots

The TLS is offered through Timeslots. The duration of the Timeslot shall depend on the transportation time via ferry to and from the Revithoussa island, loading time and duration of respective checks, as applicable. Specifically, during the first phase of providing the service via Elefsina port, each Timeslot will have a duration of approx. 4 hours. When other ports become operational, the duration will be decreased.

For the time being, a cooling-down service is not provisioned to be offered by DESFA. LNG Trucks must ensure, on their own responsibility, to meet the specified temperature and chemical composition margins (inert/gas atmosphere, oxygen allowances) specified by DESFA based on the LNG TL Manual in order to be allowed to be loaded with LNG.

Elements of the Service

The service comprises of the following elements:



Inspection of the necessary documents of the TLS User, the LNG Truck and its driver at the Transit Port.



Sea transportation of the LNG Truck and driver from the Transit Port to the LNG Facility.



Inspection of the LNG Truck, entrance to the TL Facility and loading of the LNG Truck.



Sea transportation of the LNG Truck from the LNG Facility back to the Transit Port.



Conducting all necessary measurements and procedures required for the effective, safe and cost efficient operation of the facility according to the regulatory framework and the technical manuals.

The Reservation Process

Timeslot Reservation

The TLS is offered on a first-come first-served basis.

Until November 20th of each year Y-1, DESFA announces the list of all available Timeslots for the following Gas Year (Y).

Any available Timeslot of Year Y can be reserved by interested TLS Users during the interval starting from November 21st of Y-1, and up to 13:00 of Day *D-1* (*D*: delivery day).

TLS Users, must submit requests for each Timeslot they wish to reserve through DESFA's EIS. Each valid request approved by DESFA for the reservation of a specific Timeslot will lead to an allocation of this Timeslot to the corresponding TLS User, and the Timeslot will be removed from the list of available Timeslots.

Reservation requests are binding for TLS Users, meaning that if their requests are accepted, they are bound with a take-or-pay obligation.



Truck Loading Nomination

TLS Users with reserved Timeslots and LNG Users supplying the LNG quantities for Timeslots of a Day *D*, must submit a Loading Nomination for each Timeslot they have reserved (TLS Users) or they are supplying (LNG Users), upon 13:00 of Day *D-1*.

DESFA checks the validity of the submitted Loading Nomination, and especially whether or not the daily LNG reserves of the LNG User who supplied the TLS User for each Timeslot are sufficient to provide the respective LNG Quantity. If all the required criteria are fulfilled (financial guarantee, validity of nominations, valid representative, etc.) DESFA confirms the Loading Nomination.

Secondary Market

Standard Timeslots reserved by a TLS User can be assigned to other TLS Users through bilateral agreements.

The TLS offered by DESFA in the TL Facility is a regulated service. The access rules for the Service are to be found in the NNGS Network Code Amendment. All natural and legal entities that are members of RAE's NNGS Registry are eligible for becoming TLS Users. Interested parties

must sign a TLS Framework Agreement with DESFA beforehand in order to be able to use the TL Facility and reserve Timeslots. The Tariff is in the form of a fixed amount per Timeslot including all elements that comprise the TLS and excluding the commodity.



Truck Loading Service Summary

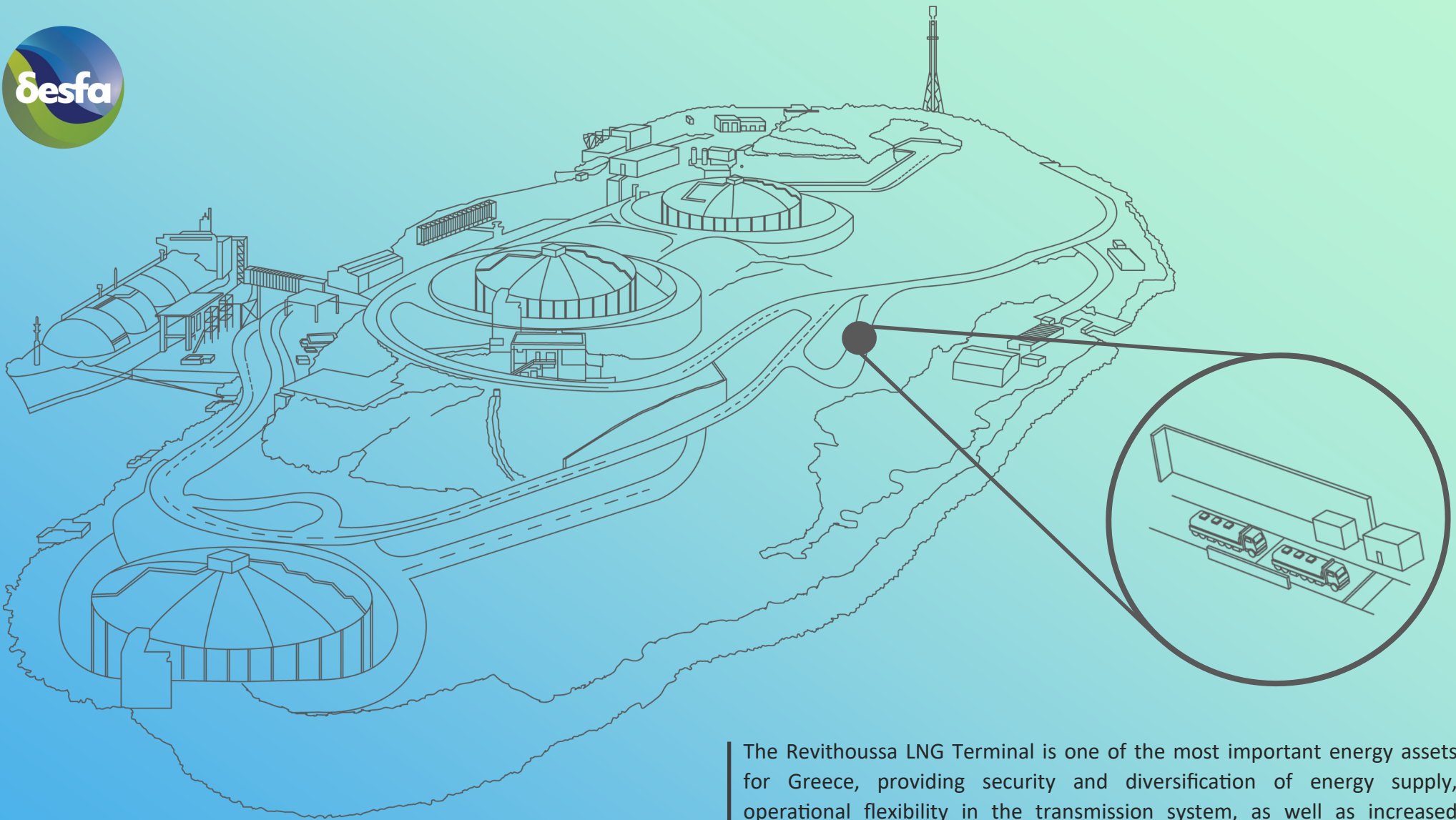
Truck Loading Facility

Operational days per week	7
Anticipated operational window	08:00 – 20:00
Peak loading capacity	100 m ³ _{LNG} /hr
Number of loading bays	1
Maximum estimated TLs annually	4,300

Operations & Logistics

Max number of trucks onboard	2
Anticipated Timeslots per day *	12
Timeslot duration (for Elefsina port) *	4 hours
One-way trip duration (Elefsina-Revithoussa)	60'
One-way trip duration (Perama Megaridos-Revithoussa)	20'
One-way trip duration (Almyra jetty-Revithoussa)	10'
TL duration (including preparatory activities)	60' per truck

* The Timeslot's duration depends on the actual Transit Port. Timeslot duration will be reduced for Perama Megaridos and Almyra ports.



The Revithoussa LNG Terminal is one of the most important energy assets for Greece, providing security and diversification of energy supply, operational flexibility in the transmission system, as well as increased capability to meet peak gas demand. Located on the islet of Revithoussa, 45 km west of Athens, the Terminal has been designed and operating in accordance with the strictest safety and environmental standards.

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