Revithoussa LNG Terminal
Annual Scheduling of Unloadings

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National Natural Gas Transmission System

- 512 km main high-pressure (70 bar) pipeline
- 952 km high pressure (70 bar) branches
- 6 Operation & Maintenance (O&M) Centers
- 47 Metering/Metering & Regulating (M/R) Stations
- 3 IP Metering Stations (Kipi, Sidirokastro, Nea Mesimvria) & 1 Metering Station at Ag. Triada opposite to the LNG
- 1 Compressor Station at Nea Messimvria
- 120+ Line Valves & Scraper Stations
- 2 Dispatching Centers (Main and Back up)
- Remote Control & Communications
Revithoussa LNG terminal

Unloading Rate: 7.250 m³ LNG / hour

Storage Capacity: 2 tanks of 65,000 m³ each and one tank of 100,000 m³ available storage space: 205,000 m³

Send Out Capacity: 1,400 m³ LNG/hour (Sustained Maximum Send out Rate)

Approach and berth of LNG carriers: from 25,000 m³ up to Qmax(*)

(*) Subject to compatibility study

High Efficiency CHP unit for the power and thermal needs of the Terminal
Annual scheduling of Unloadings

... from a loose scheme to auctions
LNG Unloadings (June 2010-Dec 2020)

- **Users Nominations**
- **Scheduled**
- **Unloadings**
Annual scheduling through auctions

The auctions are conducted in two phases

1\textsuperscript{st} Phase

- Stage A: Allocation of Strips of Standard Unloading Slots
- Stage B: Allocation of individual Standard Unloading Slots

2\textsuperscript{nd} Phase

- Allocation of Complementary Re-gasification and Entry Transmission Capacity (Bundled LNG Capacity)
Phase 1
Standard Slot / Block definition

- **Standard Slot:**
  - Standard cargoes of 1 TWh and 0.5 TWh are foreseen
  - Pre-defined Temporary Storage Period and Temporary Storage Space
  - Pre-defined Unloading Time
  - Pre-defined minimum regasification and entry transmission capacity
  - Pre-defined unloading days

- **Strips of Standard Slots**
  - Each Strip contains a number of Standard Unloading Slots equally placed along the Year
  - Three Strips of five Standard Unloading Slots of 1 TWh and one Strip of eight Standard Unloading Slots of 0.5 TWh were made available in the auctions of 2021

- **Block concept:**
  - The full Calendar Year is divided into a certain number of time blocks
  - Start and end dates of a Block do not necessarily coincide with start and end dates of calendar months
  - The duration of each Block is not necessarily the same to the previous and next Block
  - Each Block contains a number of Standard Slots
  - The number of slots in each Block shall not be necessarily the same
  - Blocks are defined based on the approximately equal “value” of Slots in the Block
Example of blocks in a year

- Average national demand for the last 3 indicate approximately 5 distinct periods of demand
- Each of these demand periods was used to define a Block

Blocks for Year 2021 according to last 3 years Average Consumption
Phase 1 – Allocation of Standard LNG Slots
Phase 2 – Allocation of Complementary capacity

- Users are able to book capacity on an annual basis (continuous capacity) by merging the capacity allocated to them through the slot allocation procedure (Phase 1) with the complementary capacity which is allocated to them during the Phase 2 of the auction.

- All available LNG Capacity (after the allocation of unloading slots) is offered as Complementary Capacity.

- The Complementary Capacity on offer is calculated as follows:

  \[
  \text{Complementary Capacity} = \text{Technical} - \text{Booked (through slots)} - T \\
  \text{where } T: \text{ any capacity reserved by DESFA for operational reasons}
  \]

- The complementary capacity is offered through auctions:
  - Only Users who were allocated at least 1 unloading slot during the Phase 1 are able to participate in Phase 2.
  - Auction mechanism: Ascending clock.
  - Users specify the level of continuous capacity they wish to book during a year.
Phase 2 – Allocation of Complementary capacity

User 2 - booked LNG capacity (Phase 1)
Phase 2 – Allocation of Complementary capacity

User 2 - complementary LNG capacity (Phase 2)
Booked LNG capacity

User 2 - booked LNG capacity

KWh/Day

LNG Auction Results for Year 2021

- 35 out of 46 unloadings (29.5 TWh out of 38.5 TWh) were allocated to seven Users.
  - 35 cargoes were scheduled for arrival
  - LNG capacity equal to 78.4 GWh/Day was allocated to five Users on an annual basis (continuous capacity)

<table>
<thead>
<tr>
<th>LNG Auction Results for Years 2021</th>
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<tbody>
<tr>
<td><strong>No of LNG Unloadings</strong></td>
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<td>35</td>
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![Graph showing LNG Auction Results for Years 2021]
LNG Auction Results for Years 2022, 2023, 2024

**LNG Auction Results – Year 2022**

34 out of 46 unloadings (27 TWh out of 38 TWh) were allocated to five Users. LNG capacity equal to 72.4 GWh/Day was allocated to five Users on an annual basis (continuous capacity)

**LNG Auction Results – Year 2023**

17 out of 45 unloadings (17 TWh out of 37.5 TWh) were allocated to three Users. LNG capacity equal to 63 GWh/Day was allocated to three Users on an annual basis (continuous capacity)

**LNG Auction Results – Year 2024**

15 out of 45 unloadings (15 TWh out of 37.5 TWh) were allocated to two Users. LNG capacity equal to 51 GWh/Day was allocated to one User on an annual basis (continuous capacity)
Thank you for your attention