

# PROJECT DATA SHEET



**Client:** VTT Vasiliko Ltd (VTTV)

**Project Title:** Preliminary Study of Proposed Double-Banking of LNG Vessels at Berth 1

**Completion:** August 2020

**Location:** Mari, Cyprus

**Services:** Mooring Analysis and Structural Assessment

VTTV plans continuous mooring of Höegh Gallant Floating Storage Regasification Unit (FSRU) at Berth 1 of its terminal in Mari, Cyprus. Visiting LNG carriers (Arctic Princess, Arctic Lady, Höegh Galleon and Höegh Giant) will be moored in a double-banked (side-by-side) configuration with the FSRU for transfer of cargo via a ship-to-ship (STS) operation.

To investigate the feasibility of this plan, VTTV engaged Paaras Marine Solutions to perform the following tasks:

- Review available metocean data to identify the governing metocean conditions for preliminary static mooring analysis.
- Perform preliminary static mooring analysis, based on:
  - Existing berth layout;
  - Existing berthing and mooring equipment;
  - Reference vessels listed above; and
  - Governing metocean conditions.
- Review results of the preliminary static mooring analysis, including:
  - Peak mooring line loads;
  - Fender reactions; and
  - Vessel motions.
- Assess the structural adequacy of existing breasting and mooring dolphins to withstand anticipated fender reactions and mooring line loads.
- Identify the scope of any upgrading work required to Berth 1 and prepare a material take-off list.

