Annex B – Factsheet on FueLNG

Designed and built by Keppel O&M, the FueLNG Bellina is the world's first LNG bunkering vessel with Smart Notation for its suite of digital services. FueLNG's structured LNG bunkering process along with the FueLNG Bellina's unique features like high maneuverability, customised bunker boom connection, high parallel body and efficient pumping system, enables the LBV to supply LNG to the receiving vessel expediently and seamlessly in a safe and efficient manner.

Features of the FueLNG Bellina

- First smart LNG bunkering vessel equipped with digital tools, enabling remote monitoring and real-time support of vessel operations. The entire bunkering process is also monitored and executed on a digital platform
- Designed by Keppel O&M's technology arm, Keppel Marine and Deepwater Technology (KMDTech) to its the proprietary MTD 7500U LNG design, the LBV has a barge-like extended flat surface to provide bunker to a wide range of vessels
- Highly maneuverable – two stern azimuth thrusters and one bow thruster enable a high degree of manoeuvrability. This includes even a crabbing manoeuvre during bunkering operations, minimising tug utilisation and in turn reduces fuel consumption and emissions
- Filling rate range of 100-1000m^3 of LNG per hour and is able to supply LNG to various types of vessels at heights ranging from 3m to 23m above water level
- More efficient than conventional bunker vessels – harnesses boil-off gas as fuel for power generation and propulsion, thus reducing CO_2, particulate matter and NO_x emissions