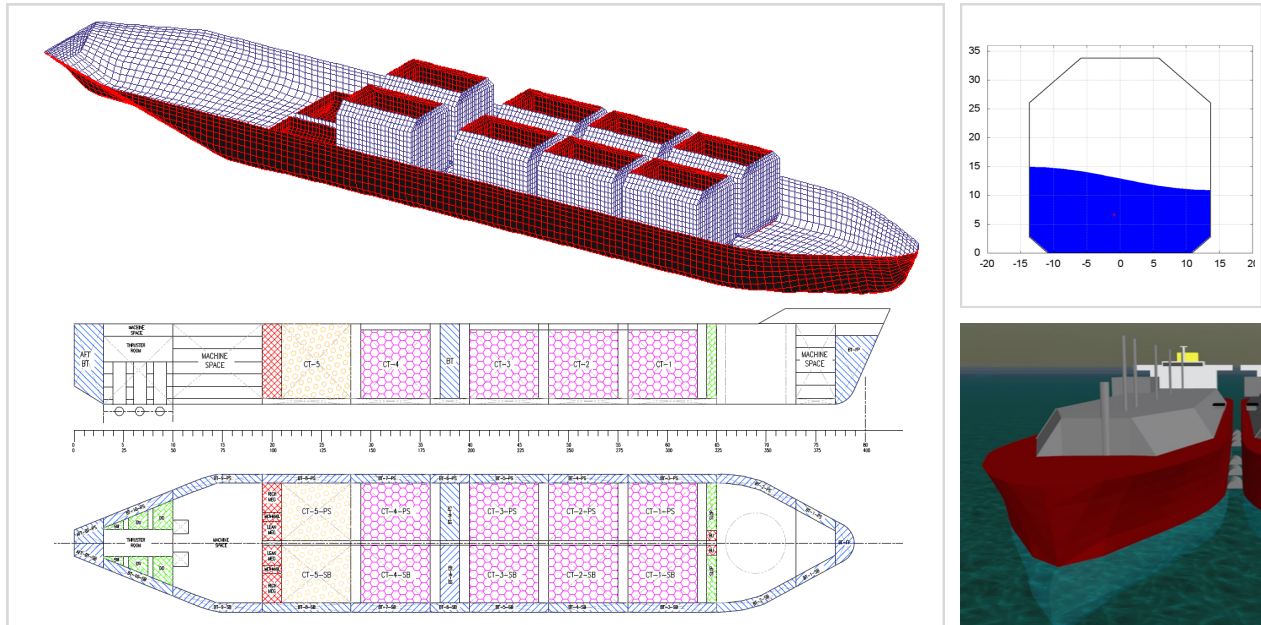


FLNG - Maximising Marine Performance

Hull, Offloading and Seawater Cooling



Increasing demand for gas worldwide means that FLNG is looked to as a means to unlock stranded gas reserves offshore. Orwell Offshore has expertise to provide clients with the information they need to make decisions on the suitability of FLNG hulls for their potential projects.

Orwell have performed a number of studies for clients on multiple aspects of FLNG vessel performance. These have ranged from the initial sizing of vessels and hullform development through to detailed assessment of their performance in operation including offloading. Orwell is able to use its extensive experience relating to floating production system performance to assess vessel

stability and motions, sloshing effects on motions, green water on deck and multi-body interactions during side-to-side offloading operations. Orwell have developed bespoke tools for the assessment of second-order roll phenomena, which can have a significant effect on the motions of FLNG vessels.

The economics of FLNG depend on high levels of operability. Orwell have helped our clients quantify operability through detailed studies examining weathervaning, the development of active heading control strategies as well as operational and equipment guidance for side-to-side and tandem offloading to LNG carriers.