

This abstract will be presented during LNG2023 conference on 10-13 July in Vancouver, Canada among many other innovative projects, ideas and outlooks. LNG2023 will provide a unique platform for the global LNG industry and key stakeholders to discuss, debate, and showcase the latest industry developments and opportunities.



LEAD AUTHOR

Husnu Kusuma
Reliability Engineer, PT Donggi Senoro LNG (DSLNG)

CO-AUTHORS

Irwan Satria
Reliability Engineer PT Donggi Senoro LNG (DSLNG)

Yoichi Koizumi
Maintenance Manager PT Donggi Senoro LNG (DSLNG)

ACHIEVING WORLD CLASS RELIABILITY IN A SINGLE TRAIN LNG PLANT

Donggi-Senoro LNG (DSLNG) is a 2 MTPA single liquefaction train LNG plant in Central Sulawesi, Indonesia and started its operation in 2015. The plant has an excellent reliability performance (within 1st quartile in the industry - confirmed by a third-party benchmark). This paper will share the experience the challenges, framework, and lessons learned in managing reliability in DSLNG.

At the heart of DSLNG's reliability activities is the Reliability Management Framework, which provides perspective on how to manage the physical asset reliability within DSLNG. It comprises comprehensive and integrated elements, including risk-based maintenance, work prioritization, spare part management, switch-over strategy, condition monitoring programs, function testing, and repetitive failure management. Successful implementation of these elements is the key factor for the achievement of world class availability & reliability at low costs, while supporting maximum plant profitability and meeting environmental goals. Failure to effectively implement the Reliability Management Framework will lead to increased unplanned deferment, low operational performance and missed production deliveries. The novelty of the reliability framework in DSLNG is that it is lean and focuses on proactive elements such as avoidance of repetitive failures and strategic programs (selective upgrades, obsolescence management, and work optimization).

To view the full conference agenda, visit <https://www.lng2023.org/lng-programme-overview>