

THE RESEARCH

Research question:

“What is the optimal logistic infrastructure and terminal design for LNG in Indonesia?”

Royal Vopak is the world's leading independent tank storage company. Liquefied Natural Gas is one of the product stored in Vopak tanks around the world. As part of the Indonesian government's plan to increase the energy supply to its many islands, our team performed a market study and an economic analysis on the LNG demand to provide Vopak with strategic advice on how to optimise their LNG infrastructure in Indonesia.

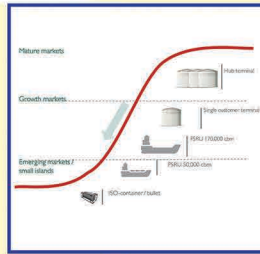


PROJECT PLANNING



RESULTS

Indonesia poses large potential for the LNG market with its incredible population growth and escalating demand for energy. Governmental plans in Indonesia on increasing electrification rate include 21 gas-fired powerplants with a total base load capacity of 1.6 GW to be constructed before 2019. Meeting this increased domestic energy demand is only possible with an efficient and effective infrastructure. Geographics in Central Indonesia dominates concept design and requires Vopak to design innovative technical and logistical structures. LNG is a viable solution, both logistically and economically.



AN IMPRESSION



TEAM MEMBERS



Maarten Vrouwenraets
Systems Engineering,
Policy Analysis and
Management



Jenneke Evers
Transport, Infrastructure
& Logistics



Roderick Bujs
Offshore Engineering



Tyrtza Hogewoning
Strategic Product
Design