



FSRU LAMPUNG : The 1st MULTI-USERS FSRU IN INDONESIA

Transforming Commercial and Operational Models for Integrated Gas Supply in Java–Sumatra







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Offshore and Onshore LNG Regasification Liquefaction

LNG Bunker



LNG Terminal

PERTAMINAGAS

Operator and Asset Manager

PT. PGN LNG Indonesia

Founded on June 26 2012, PT PGN LNG Indonesia (PGN LNG) is a subsidiary of PT Perusahaan Gas Negara Tbk (PGN), with the aim of building an LNG business consisting of LNG Liquefaction, LNG storage and delivery, and LNG regasification to support the main business PGN in transportation and distribution of gas to consumers.

Since July 2014, PGN LNG has operated a Floating Storage Regasification Unit (FSRU) located ± 21 km offshore from Labuhan Maringgai – Lampung with a capacity of 1.5 - 2 MTPA with a delivery limit of up to 240 MMSCFD. For future development, PGN LNG is committed to building and operating LNG facilities and infrastructure throughout Indonesia with the aim of supporting the government's program to reduce fuel oil consumption.







GAS BALANCE SUMATRA-JAVA





Note:

- Data 2025 sesuai rapat SKK Migas 10 Oct 2024
- 2026 onward berdasarkan kebutuhan demand sistem





LNG

it happen



2014 – 2017 :

- Gas Sales Agreement
- PGN LNG as commodity owner and infrastructure owner
- Low Utilization
- "Contractually" not integrated with the South Sumatera West Java Pipelines
- Single User

2017 – 2024 :

- Terminal Use Agreement
- PGN LNG as infrastructure owner
- Moderate Utilization
- "Contractually" Integrated with the SSWJ
- Single User
- Single Commodity Owner (Most of the time)

2024 onwards:

- Terminal Use Agreement
- PGN LNG as infrastructure owner
- Very High Utilization
- "Contractually" Integrated with the SSWJ
- Multi Users
- Multi Commodity owners



Integrated Infrastructure Subholding Gas in West Java to support the fulfillment of PGN and PLN's generating gas needs :

- Midstream transmission pipeline SSWJ
- Regasification facilities (FSRU Lampung: regas capacity 240 mmscfd, and FSRU Lampung)
- Downstream facilities at the power plant (redundant stream, optimize capacity)









Proyeksi di tahun 2025 menunjukkan bahwa potensi utilisasi dan penyaluran FSRU Lampung akan meningkat 2x lipat dibandingkan 2024









CHALLENGES & LESSON LEARNED

INFRASTRUCTURE			CHALLENGES	LESSON LEARNED
			FSRU LAMPUNG, PIPELINE & ORF Facilities are expected to perform in maximum capacity	Ensure more thorough inspection and maintenance. PLI deploy additional superintendent to monitor and control the operation of FSRU Lampung.
	DALINGS USSOCIAMO Usersente of Gustematical of capp analabity: and party proto an operation of the second operation and party proto an operation of the second operation operati		Clients expect minimum maintenance period and integrated maintenance period	Discuss maintenance period with EVERY Stakeholder. In this case not only direct clients (PGN& PLN EPI) and FSRU Owner are expected to be involved. PLN P2B, PLN IP and NP, NR, Java 1 also need to be involved to align with our maintenance period.
*Planning, Scheduling, Monitoring and Reporting Inventory	Linked familative on cargo shipment due to limked kompace papeliny awell astimuted number of IAVe separt schedule. New scheme for PON LNG and all scenes i.e. cargo spitting, linking and bornoung mechanism. Need to develop tools for multi users from scritch, Ne available tools)	Disping a mildel nomination and scheduling process that integrates each user's regis profile An Terminal Owner for a "neutral" party and develop trust emergination robust scheduling and develop trust emergination robust scheduling and develop trust emergination the scheduling of the scheduling and the scheduling scheduling and tandemerginations and tandemerginations and tandemerginations and tandemerginations and tandemerginations and tandemerginations and tandemerginations and tandemergin	Flexibility on LNG Inventory in FSRU i.e. mixing LNG in the tank	Deep dive in the procedure of mixing LNG with FSRU owners. Ensure that all flexibility are utilized within the safety limit.
	From commercial and operational point of view, LNB is less priority than conventional gas.	Updating demand forecasts frequently (each week) and reporting with unificiant accurry (spewert over- or under-ubilization.	Ensure reliability of Marine Support Infrastructure (i.e Tugboat, Marine Pilot, Crewboat) From cost optimization to to full reliability.	Additional Tugboat TCP is ongoing. Trained new pilot to ensure flawless STS operations.



INFRASTRUCTURE





PERTAMINA GAS

CHALLENGES & LESSON LEARNED

	CHALLENGES FSRU LAMPUNG, PIPELINE &	USION LEARNED Support Rest and the months and county of the support rest and the support rest	CHALLENGES	LESSON LEARNED
	ORF Facilities are expected to perform in maximum capacity Clients expect minimum maintenance period and integrated maintenance period		Uncertainty on Gas demand and cargo availability.	Updating demand forecasts frequently (each week) and reporting with sufficient accuracy to prevent over- or under-utilization.
	PSRU Le, mixing LNG in the tank		Limited flexibility on cargo shipment due to limited storage capacity as well as limited number of LNG export terminal, LNG carrier and LNG Cargo schedule	Designing a reliable nomination and scheduling process that integrates each user's regas profile
Ř			New scheme for PGN LNG and all users i.e. cargo splitting, lending and borrowing mechanism.	As Terminal Owner be a "neutral" party and develop trust among users on robust Lending and borrowing scheme.
OPERATION: *Planning, Scheduling, Mor Reporting Inventory		Monitoring and	Need to develop tools for multi users from scratch. (No available tools)	Developed dashboard and monitoring system to ensure cargo traceability and transparency through clear documentation of ownership and transfer terms.
			From commercial and operational point of view, LNG is less priority than conventional gas.	Updating demand forecasts frequently (each week) and reporting with sufficient accuracy to prevent over- or under-utilization.





KEY TAKEOUTS

- Multi-users FSRU may create additional utilization
- There are fair challenges when utilization is increased significantly over limited period of time. All parties need to work together to tackle all challenges.
- Terminal Owner shall be a neutral party in front of clients to build trustworthiness from every client.
- Develop a fair commercial scheme and robust operational procedure to ensure a win-win game for every parties
- With a good commercial scheme, a multi users FSRU may increase economical advantage for every parties

including the Terminal Owner



