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Strengthening Marginal and Mature Field Ecosystems: Technology, Innovation, and Collaboration

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Strengthening Marginal and Mature Field Ecosystems: Technology, Innovation, and Collaboration



Reactivation of Idle Oil and Gas Field through Partnership and Company-Operated Work Programs: A Strategic Initiative by Pertamina Hulu Energi

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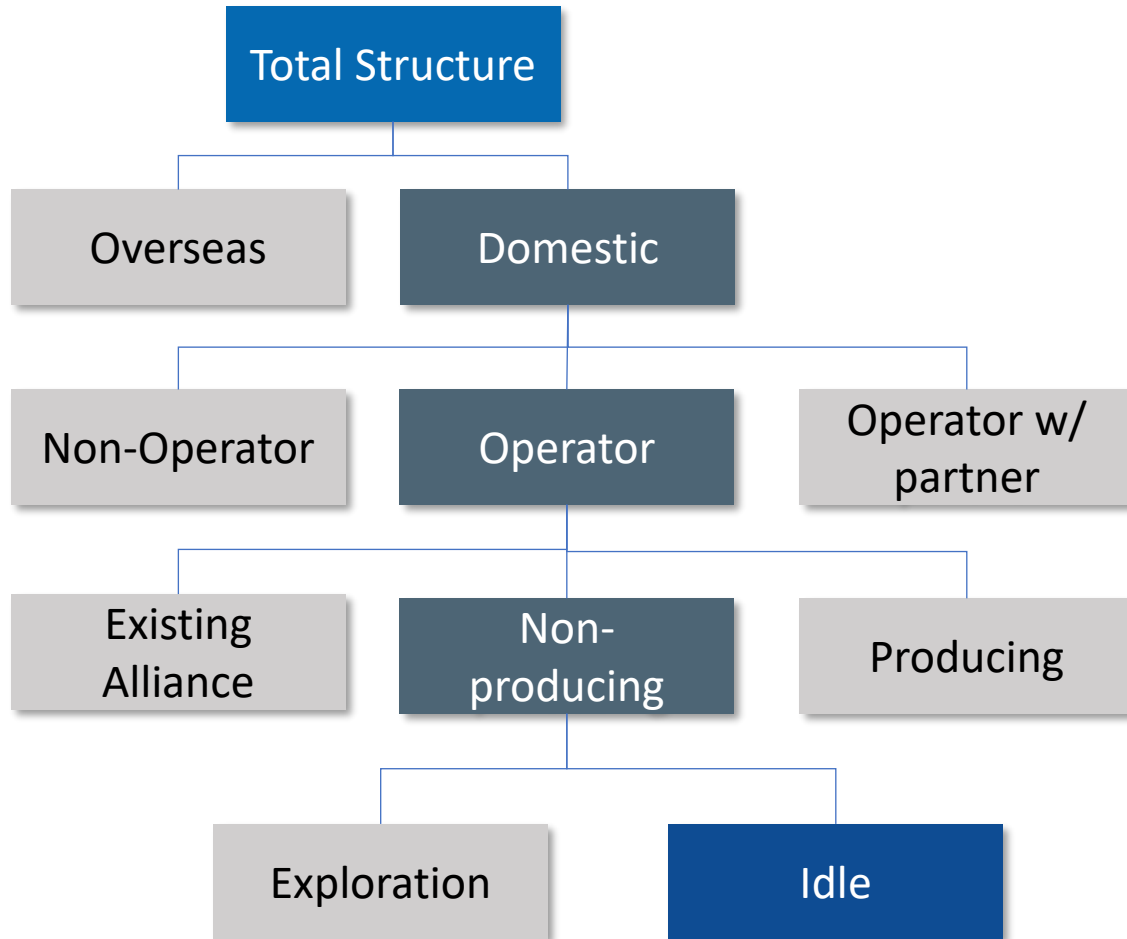


Background

- ✓ Reserves report, project box, and portfolio analysis
- ✓ Several structures were idle for several years
- ✓ Urgency in increasing production thru company operated program and strategic partnership
- ✓ Ministry of energy regulation launched in 2025 to increase oil and gas production thru partnership
- ✓ No more idle structures aspirations



What is idle structure?

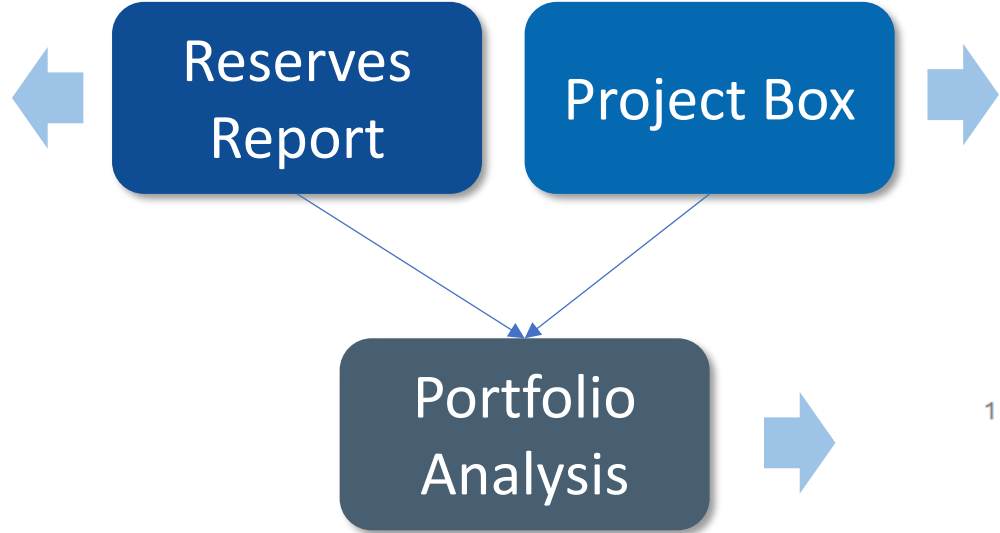


- ✓ Total structures in Pertamina: ~900
- ✓ Focus on idle structures: **Domestic, operator-held, non-producing assets**
- ✓ Definition of idle structure: **No production** for two years and **no planned work program** for the subsequent two years
- ✓ Government alignment: Reactivation of idle assets through **strategic alliances** in accordance with Ministry of Energy Regulation (Permen ESDM No. 14/2025)
- ✓ Another reactivation approach: Company-operated work programs



How to manage the structures?

Reserves, contingent resources, cumulative production, recovery factor etc



Project line, schedule, scope of works, constraint, production profile etc

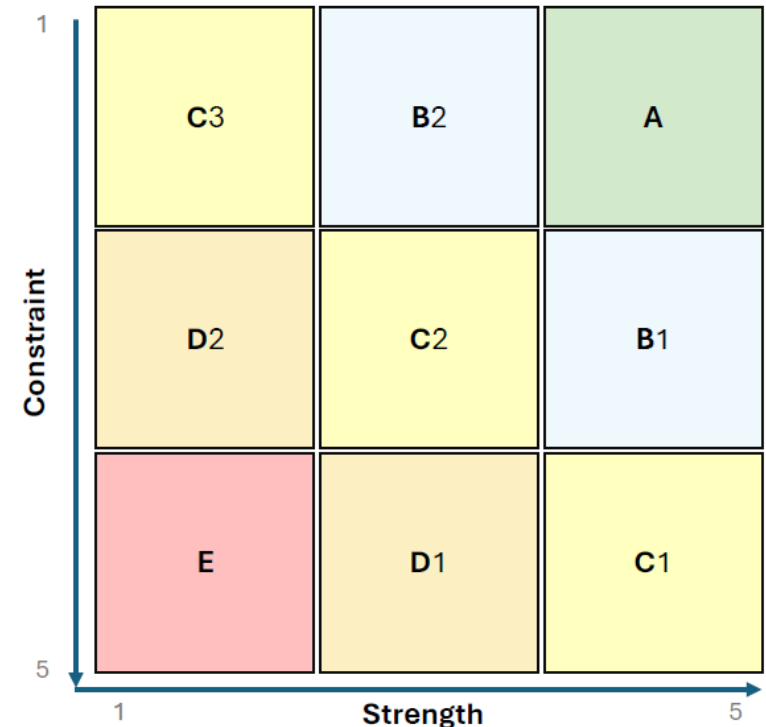
X- Axis (Strength)

- ✓ NPV (USD)
- ✓ Volume 2P+2C (mboe)
- ✓ Average Production rate (boepd)

Y- Axis (Constraint)

- ✓ Withdrawal rate (%)
- ✓ Operating cost/unit (USD/boe)
- ✓ Uneconomic ratio (%)
- ✓ Surface facilities
- ✓ Secondary recovery
- ✓ Market Availability

3x3 Matrix





How to reactivate?



First Screening

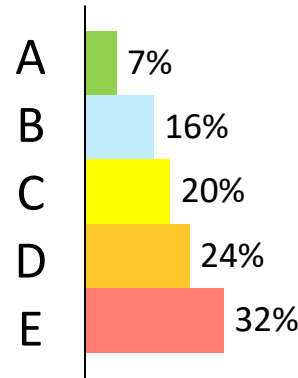
Clusterization

Identification

Way forward

Reactivation Program

Non- producing
Structures



✓ Structure with work program

✓ Own operated program

✓ Drilling, Workover, GGR Study

➤ Structure without work program

➤ Strategic Alliance

➤ Bidding Process for Partnership

Main constraints/issues:



Technical

- Subsurface
- Well & Surface Facilities
- Data insufficient
- No work program



Non-Technical

- Marginal / Uneconomic
- Socio resistance
- Legal Issues
- Access and Land



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How to collaborate?



Infrastructures



Ministry Regulation

Permen ESDM no.14 2025



Government Supervision

PTK SKK Migas



Company Guideline*

Pedoman kerjasama struktur

Workforce



Join workforce

Government and Company

Satgas Lifting Migas



Company Task force

Pokja Idle Field



Performance Evaluation

Bi Weekly Monitoring

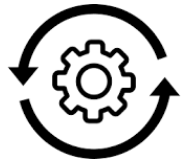
*Document is being drafted. Current process is under regulatory Memorandum issued by the President Director (Surat Dinas Mengatur).



The result in 2025



Company operated work program



- ✓ 9 Works have been executed by Drilling and WO.
- ✗ 6 works Carryover due to some reasons*



- ✓ 2 GGR study completed
- ✗ 2 GGR study still in progress



- ✓ 5 wells produced oil 10-300 bopd and gas ~2 MMSCFD
- ✗ 4 wells were underperformed**

Partnership work program



4 structures reactivated & 16 structures launched for bidding process



Batch 2025 - ~50 Companies interested in 7 different Area



Total reserves unlocked ~30 MMBO and ~40 BCF

*Surface facilities, access location, and natural disaster

**low influx, high water cut, and operation problem



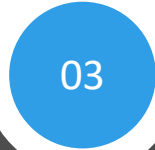
Way forwards



Awarding Batch-1 2025
16 Structure

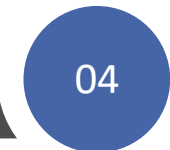


Strengthening Organization
in Subholding upstream
and Regional



Continue Reactivation
Program in 2026

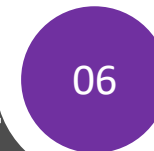
- ✓ Drilling –Workover
- ✓ Study GGR
- ✓ Seismic Acquisition



Company Guideline
Finalization



Launching Bidding
Batch-2 2026



Performance
Evaluation and
monitoring



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Summary and conclusion

- ✓ Idle field reactivation have been performed both thru company-operated work program and strategic partnership
- ✓ Those reactivation program aligned with government vision to increase production of oil and gas in Indonesia
- ✓ Strong regulatory infrastructure and organization is essential to achieve good result
- ✓ Consistent performance evaluation across the entity is very important



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THANK YOU

