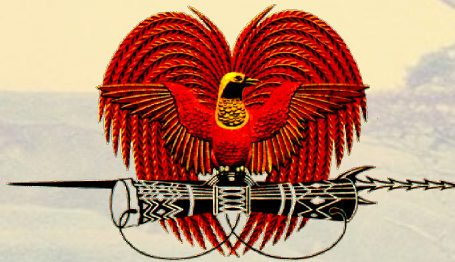




**2024 Papua New Guinea
Investment Week – Creating Opportunities &
Reinvesting Equity
6-11 December | ICC Sydney, Australia**

**HYDROCARBON DEVELOPMENT
– READY FOR INVESTMENT**



DEPARTMENT OF PETROLEUM AND ENERGY, PAPUA NEW GUINEA



OUTLINE

- **Overview – Creating Opportunity for Investment in PNG**
- **Ongoing Hydrocarbon Developments & Opportunities**
- **Current Hydrocarbon Investments**
- **Summary/Conclusion**

1. Overview

North New Guinea

1. Frontier
2. Massive sedimentary basin
3. Prospective resource High
4. Limited wells and geophysics requires more exploration.
5. High potential for investment.
6. Sufficient dataset

New Ireland Basin

1. Frontier
2. Massive sedimentary basin
3. Prospective resource High
4. Adequate geophysics but not enough
5. No wells but potential future wells
6. Sufficient dataset
7. High potential for investment

Bougainville Basin

1. Frontier
2. Established sedimentary basin
3. Prospective resource High
4. Limited wells and geophysics
5. Limited dataset
6. Requires more exploration
7. High potential for investment

Greater Papua Basin

1. Highly prospective
2. Established petroleum systems.
3. Foldbelt semi to high constrained by wells and GG
4. Foreland high prospective potential
5. Offshore Gulf and Coral Sea highly prospective.

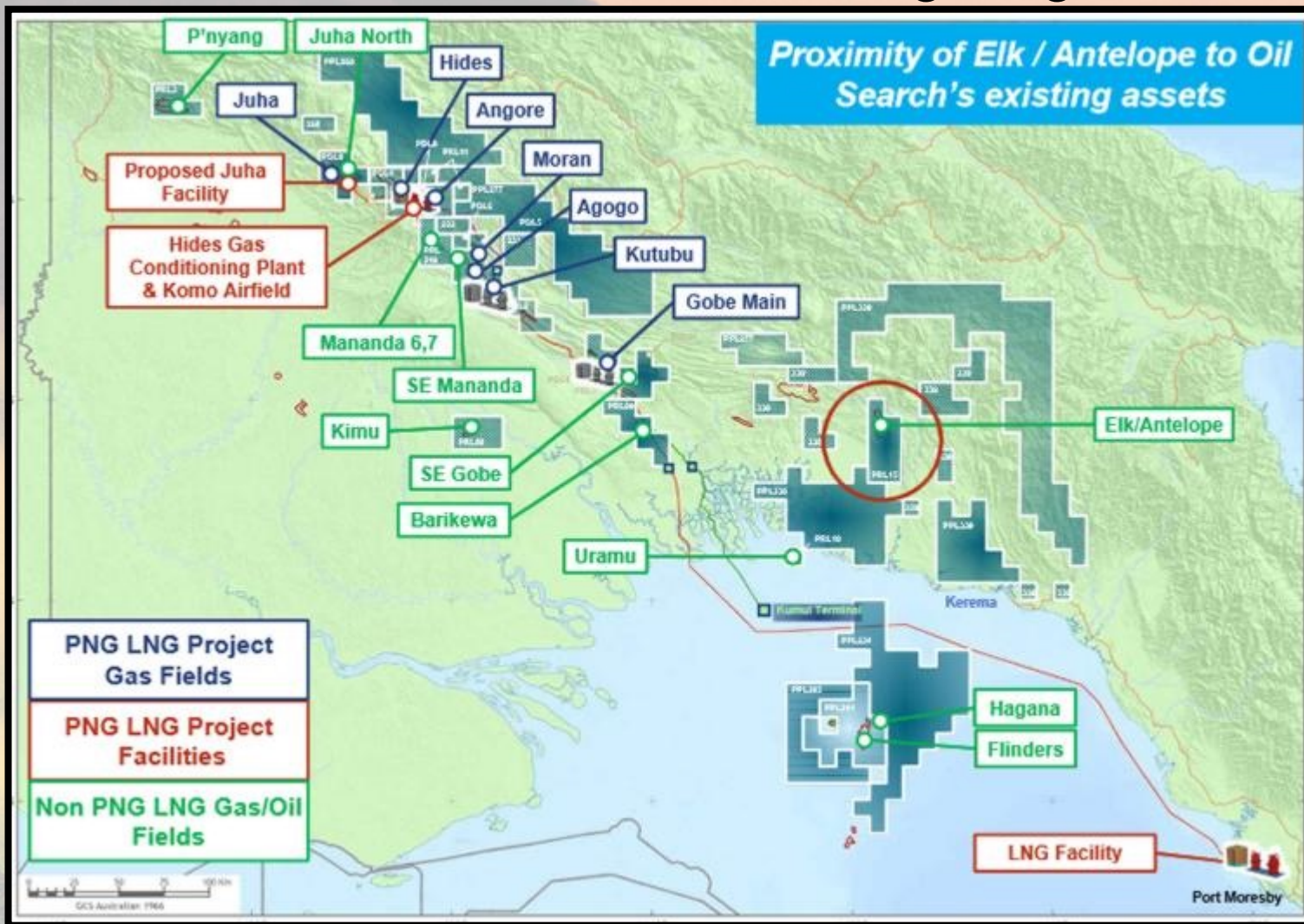
Cape Vogel

1. Frontier
2. Established sedimentary basins
3. Highly prospective
4. Adequate geophysics but not sufficient. Limited wells
5. High potential for investment



2. ONGOING DEVELOPMENT/ opportunities

Fruition - confidence and robust oil and gas regime



3. Developments on the horizon (current)

A. APDL-13: P'nyang gas field in the Western Province.



4.36 TCF



75 MMBBL condensate

B. APDL-15: Elk-Antelope gas/condensate fields in the Gulf Province.



6.2 TCF



128 MMBBL

C. APDL-14: Pasca A gas/condensate field, offshore Gulf of Papua.



327 BCF



69.1 MMSTB

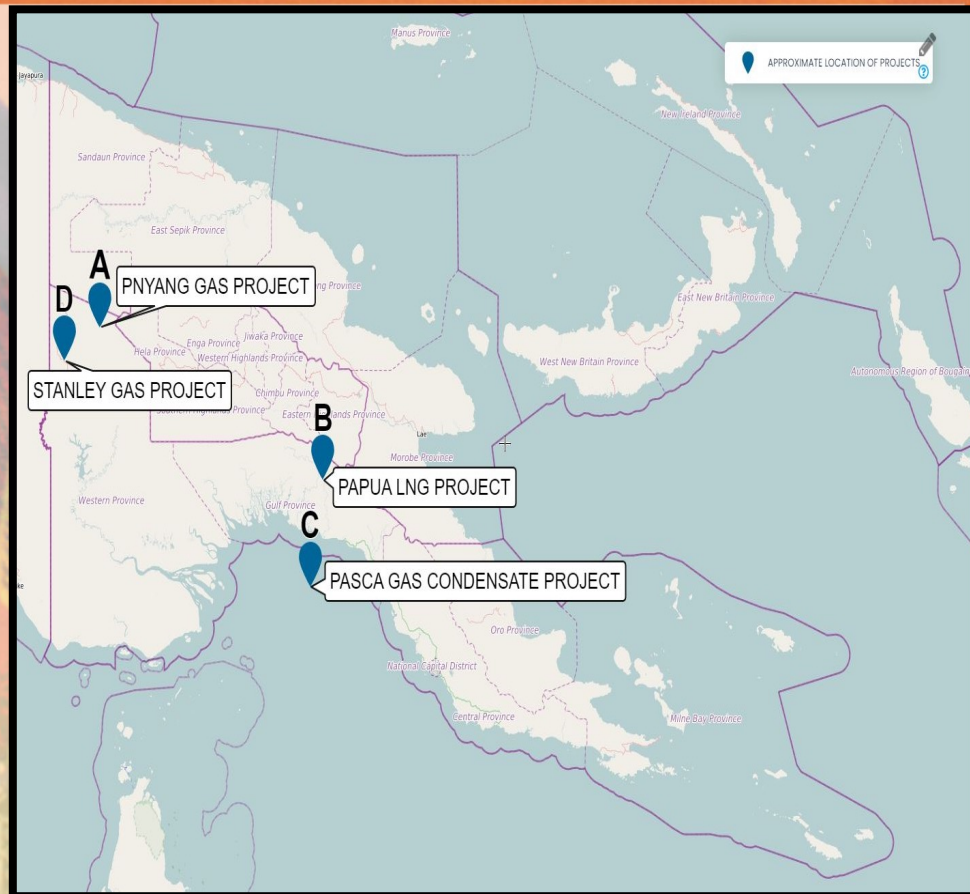
D. PDL-10: Stanley gas/condensate field in the Western Province.



361 BCF



11.1 MMBBL





3.1 new DEVELOPMENT OPPORTUNITIES – PLNG

PAPUA LNG PROJECT - TotalEnergies PNG

- Key catalyst for the economic growth of Papua New Guinea gas and a leader gas development in Eastern Fore Basin.
- Certified resource of 6.2 TCF 2C in-place volume | 90 MMBBL condensate
- Expected FID in Dec 2025 | first gas in 2030
- Production is expected up to 20 years from the date of 1st gas

‡ **Key milestones achieved**

- ✓ Gas Agreement & Signing of the Fiscal Stability Agreement (FSA)
- ✓ Environment Impact Studies Submission for review by CEPA
- ✓ Submission of development proposals
- ✓ Ministerial Determination of PLOs

‡ **State's take**

- ❖ Expected revenue stream of US\$41.9 billion
- ❖ GoPNG's take 52% | State secured: 22.5% equity | 2% production levy | APT 15% | 2% fiscal stability premium

‡ **What is next for Papua LNG Project?**

- ❖ Firm project schedule | realization of FID in Dec 2025 | First gas in 2030



3.2 new DEV. OPPORTUNITIES – P'NYANG

P'NYANG LNG GAS PROJECT –ExxonMobil PNG

- Key driver for development of stranded gas & Oil fields in the Western Papua Basin, that has estimated resource size up to 16 TCF of gas | ~200 MMbbl of cond.)
- Pnyang resource estimate: 4.36 TCF 2C and 75-78 MMbbls cond
- P'nyang gas field is key to expansion of the foundation project.
- Production is expected up to 25 years from the date of 1st gas

‡ **Key milestones achieved**

- ✓ Gas Agreement | Fiscal Stability Agreement signed
- ✓ Ministerial Determination (interim) issued
- ✓ Launched FEED for Downstream & Upstream
- ✓ Development proposals submitted

‡ **State's take**

- ❖ Expected revenue stream of US\$41.8 billion
- ❖ GoPNG's take 62% | State secured 34.5% equity | 3% production levy

‡ **What is next for P'nyang LNG Project?**

- ❖ Firm-up the existing development plan | after FID is reached for Papua LNG



3.4 new DEVELOPMENT OPPORTUNITIES – PASCA

PASCA A GAS PROJECT – Twinza Oil (PNG) Ltd

- Pasca A gas/condensate project is an offshore phased development.
- Liquids (condensate + LPG) development and dry gas re-injection in Phase 1
- Phase 2 with production of up to 115 mmscfd of dry gas – mid-scale FLNG train size.

Key milestones achieved

- ✓ Technical subsurface & engineering reviews
- ✓ Third-party resource certification by the GCA
- ✓ Concept & Pre-FEED completed
- ✓ Economic Modelling analysis done
- ✓ Environmental Permit issued by CEPA in May 2017
- ✓ Full-scale SMLIS study completed
- ✓ Ministerial Determination signed on 30th Aug 2019.

‡ State's Take

- ❖ Expected revenue stream of US\$4.18 billion
- ❖ Gas Agreement is under negotiation.
- ❖ State's take: 55% based on initial negotiation

‡ What is next for Pasca A Gas project?

- ❖ Signing of Gas Agreement → FEED
- ❖ Upgrade APDL
- ❖ FID & PDL Granting



3.5 new DEV. OPPORTUNITIES – STANLEY PDL10

STANLEY GAS PROJECT – Arran Energy Ltd

- Development scope is to produce gas and strip condensate for market
- Re-inject gas to reservoir for future commercial options
- New Operator will confirm its plan on how best to commercialize gas and condensate from Stanley field. Under the current information cost est is US\$3 billion

Key milestones achieved

- ✓ Grant of PDL 10 & Pipeline License PL10
- ✓ Gas Agreement
- ✓ Resource Certification
- ✓ Environmental Permit

‡ **State's Take**

- ❖ Expected revenue stream of US\$5.19 billion
- ❖ State's take: 55% based on initial negotiation estimated US\$ 1.3billion

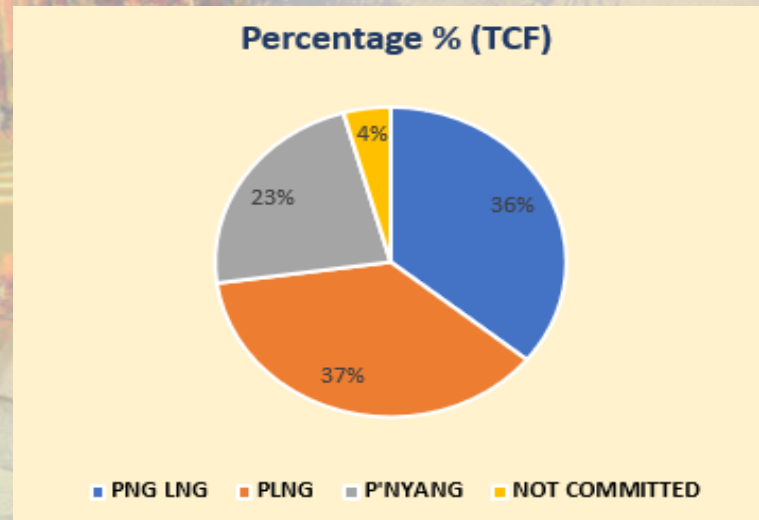
‡ **What is next for Stanley Gas Project?**

- ❖ Market Studies to underpin feasible commercial development
- ❖ Revised Field Development Plan,
- ❖ PDL 10 Licence Variations
- ❖ Fiscal Stability Agreement



SUMMARY / CONCLUSION

- ❑ Gas Agreement signing for the Pasca A gas project is subject to a positive outcome of the dialogue between the SNT and Twinza
- ❑ P'nyang may need to be maintained at the backend of the Papua LNG project
- ❑ Papua LNG developer & its partners will have to ensure completion and confirmation of its development optimization plans. Therefore, it is imperative that regular interactions with the DPE be held and maintained to bring closure to all review processes as well as to gain the support & assistance needed in order to achieve key project milestones in a timely and economic manner.
- ❑ Given the limited window of opportunity to assess, engineer, and implement the Stanley gas project and the fact that it has been a decade since PDL-10 grant, it is imperative that all parties involved co-operate, problem-solve and support in an expeditious manner.
- ❑ In conclusion, PNG currently has an estimated total recoverable gas reserves (2P) of more than 25 trillion cubic feet of gas (TCF). All discovered gas fields are located in the Papuan Basin and most of them are marginal and stranded gas fields.
 - The pie chart shows what PLNG (37%) and P'nyang (23%) compare to the PNG LNG Project (36%) to date.

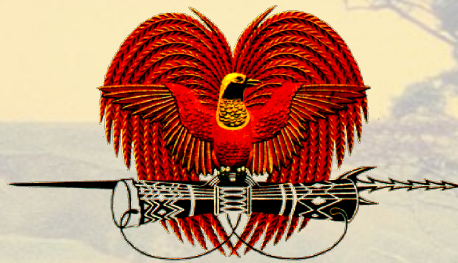




PNG'S PETROLEUM INDUSTRY

**“HYDROCARBON DEVELOPMENT
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Thank you!



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PAPUA NEW GUINEA**