

Pasca Development Project

Energy from the Gulf of Papua



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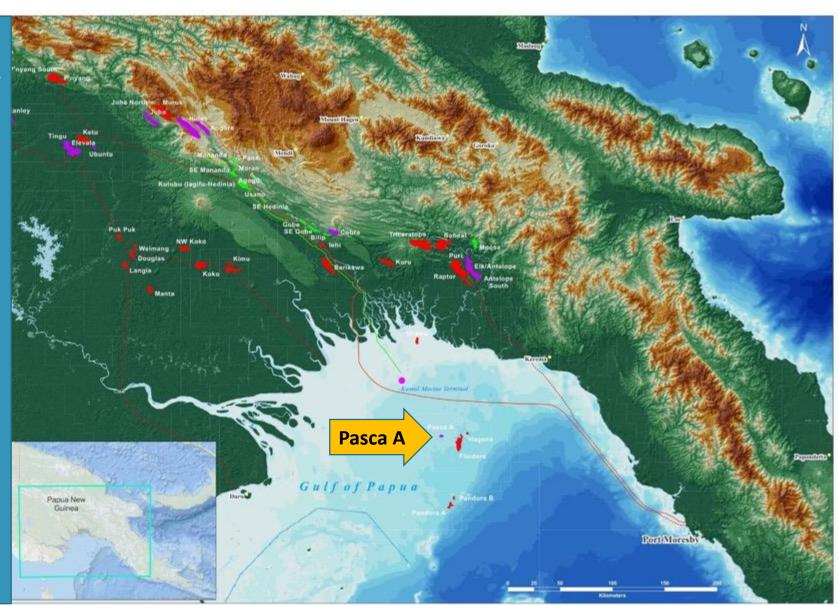
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Pasca: PNG's Next Big Oil and Gas Project – Development Ready 🗱 twinza

- "Big 5" new resources project
- Over K600 million invested since 2008
- Pasca PDL application in 2015
- Gas Agreement terms agreed in 2021
- FEED-ready design (~170mmboe)
- Pasca project benefits for PNG:
 - USD \$1.5billion of FDI
 - First State revenues in 2027*
 - ~K15 billion revenue to PNG
 - >K31 billion GDP impact

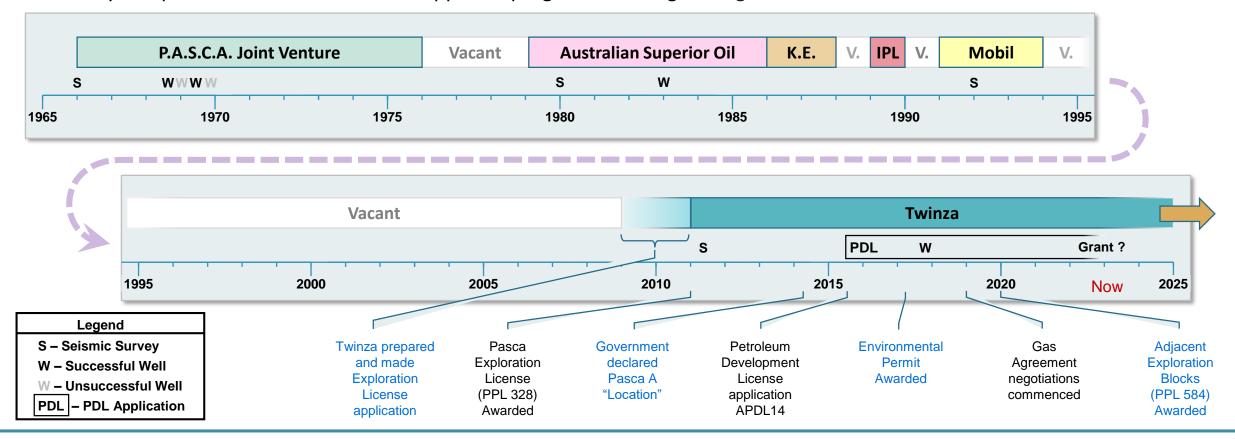


*Subject to Gas Agreement by end 2023

Twinza: An Exploration Success Story in PNG



- After 3 decades of exploration by oil majors since 1966, the Pasca asset lay dormant for 14 years before Twinza
- Over the past 16 years (since 2008), Twinza has advanced the Pasca project to development readiness:
 - Submitted a Petroleum Development License application in June 2015
 - Social Mapping and Landowner Identification (SMLI) and Environmental Impact Assessment (EIS) completed in 2016
 - Fully completed the Pasca A reservoir appraisal program including drilling the A4 well in 2017



Pasca Development Project: Two Phases

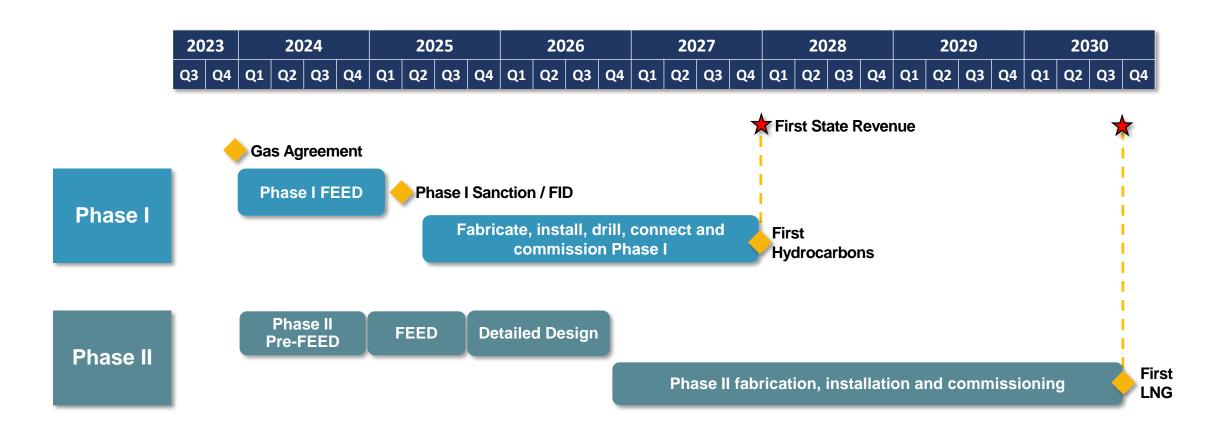




Pasca development timeline



Year end 2023 Gas Agreement would mean first revenues can be delivered to PNG in 2027

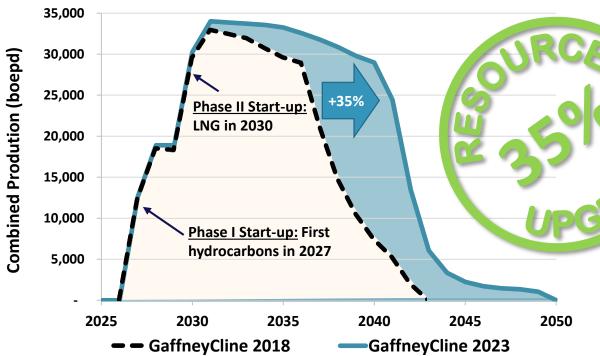


2023 Resource upgrade extends production life and benefits



Significant increase in benefits to PNG

- Longer plateau gives longer cash generation phase
- 35% increase in resource
- Drives 75% increase in total revenue to PNG
- Project development scope is unchanged



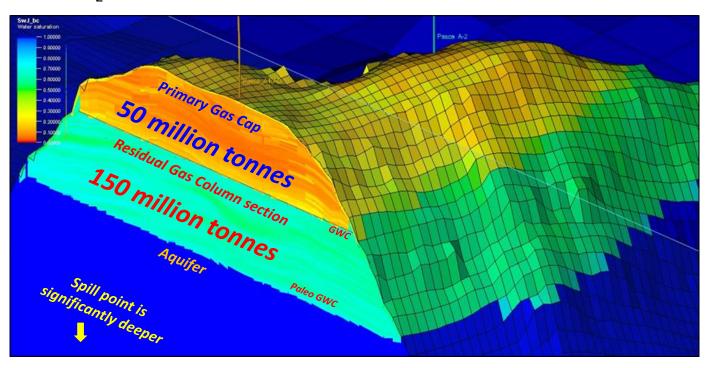


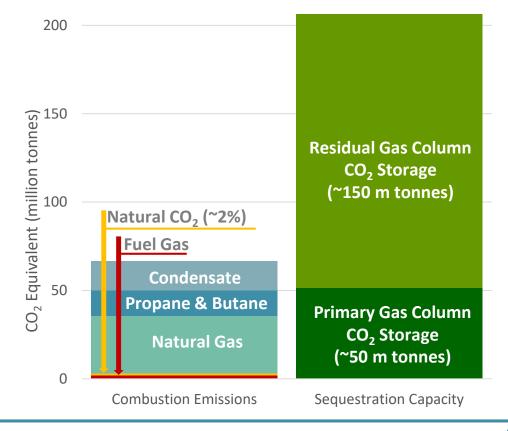
Carbon Dioxide (CO₂) Geo-sequestration Opportunity



- Pasca has potential to become PNG's only carbon negative LNG project
- GaffneyCline validated the subsurface feasibility, and quantified CO₂ sequestration, in the Pasca A field and aquifer.
 - >50m tonnes of CO₂ in the gas cap section of the reservoir
 - Plus >150m tonnes in the aquifer section directly below the gas water contact.
 - CO₂ injection is technically feasible concurrently with gas production.

CO₂ injection modelled at 3mtpa





Modelling - Simultaneous Gas Production and CO₂ injection



Phase I:

Simultaneous:

- liquids production,
- dry gas injection,
- liquid CO₂ injection

Phase II:

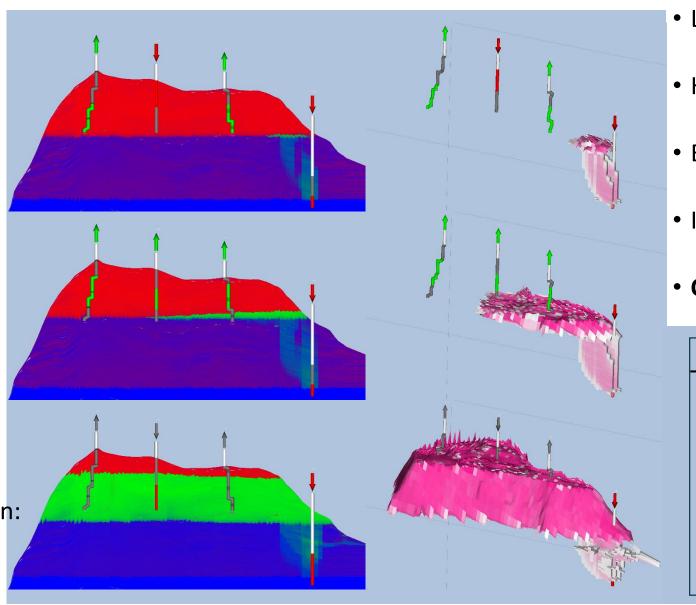
Simultaneous:

- LNG production,
- liquid CO₂ injection

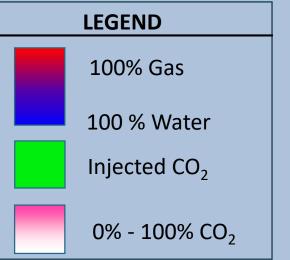
Possible Phase III:

Post reservoir depletion:

CO₂ injection continues



- Large structure
- High porosity & permeability
- Excellent seal; no faulting
- Ideal for injection storage
- CO₂ Storage >200m tonnes

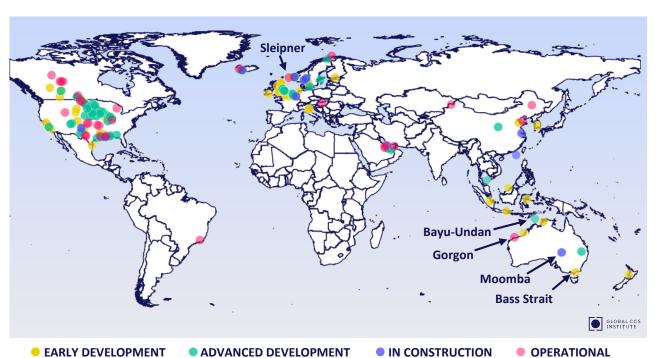


World Class Potential of Pasca CO₂ Sequestration



50m - 200m tonnes is large potential by global standards

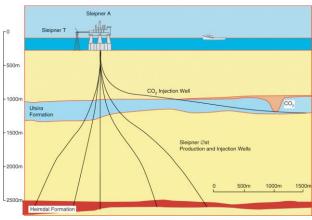
- Climate goals: >5.6 billion tonnes of global CO₂ capture every year by 2050
- Currently >20 large-scale CCS projects in operation, storing ~40 million tonnes per year of CO₂



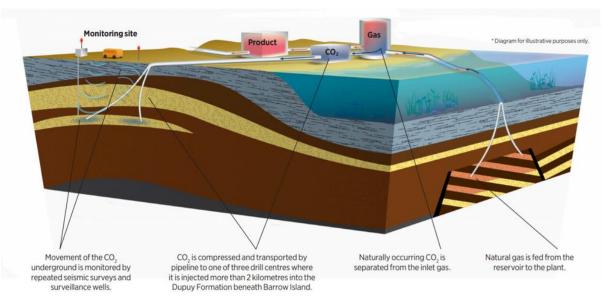
Sources: International Energy Agency and Global CCS Institute



Moomba Project: 1.7 Mtpa, 100 million tonnes storage resources booked (Santos)



Sleipner: 1 Mtpa, oldest non-EOR storage project (operating since 1996) (Global CCS Institute)



Gorgon Project: 4 Mtpa capacity, has averaged 2.2 Mtpa since Aug 2019 startup, 100 million tonnes total over life of project (Chevron Australia)

Pasca Gas Agreement and PDL – Pending



- 2015 Application for Petroleum Development Licence
- 2020 Gas Agreement Term Sheet signed with State Negotiating Team
- 2021 Additional and Final Gas Agreement Terms agreed and announced by PNG Government
- FEED, investment and project financing are awaiting the Gas Agreement and PDL awards





Board of Directors and Officers



Twinza's Board has deep industry expertise in developing, financing and operating major energy projects

Board of Directors



Stephen Quantrill Executive Chairman

Over 20 years international experience in company leadership, including over 12 years in oil and gas.



Stefan White

Deputy Chairman

Over 20 years of experience in financial, credit and energy markets as a corporate executive, financial advisor and investor



Julian Ball Non-Executive Director

Over 25 years in private equity & investment banking in energy and resources. Former Head of Investment and Portfolio Management at Kerogen Capital



Erick Kowa

Independent Non-Executive Director
PNG national; former Twinza Gas Development Manager,

production engineer at Oil Search and project management with IPA



Stuart Brown

Independent Non-Executive Director

Geologist with over 35 years experience at technical, managerial and executive levels in Woodside and Shell



Abby Macnish

Company Secretary and CFO

Over 15 years experience as an investment professional and as the CFO and Company Secretary for a number of public and private companies..



Ivor Orchard

Alternative Director

Over 35 years of oil and gas industry experience spanning private equity, investment banking and management.

Co-Founder and Executive Chairman of Kerogen Capital Ltd



Bill Clough

Alternative Director

Over 38 years of diverse experience in the resources industry. Founder of Twinza Oil Limited in 2004 and continues to advise on strategy and operations.

Executive Leadership Team



Twinza's executive management team has deep industry and operational expertise on major projects

Senior Management



Stephen Quantrill
Executive Chairman

Over 20 years experience in international company leadership, including over 12 years in oil and gas.



Stefan White

Deputy Chairman

Over 20 years of experience in financial, credit and energy markets as a corporate executive, financial advisor and

investor



Robert Gard

CEO

CEO positions with Denison Gas and Pilot Energy. 35 years of extensive Oil and Gas experience including 23 years at ExxonMobil



Rob Mountjoy

Project Director

Over 35 years of engineering, construction, commissioning and project management of large-scale offshore oil and gas projects, including roles at BHP, JGC and SBM



Wayne Spencer

Geoscience Manager

Senior management at Premier Oil with 35 years of exploration and development experience in Asia Pacific



Simon Newton

Project Facilities Manager

25 years project and process engineering experience on more than 50 oil and gas projects across Asia, Africa, Europe and the Middle East.



Peter Kirkham

Project Engineering Manager

Engineering and commercial roles in Asia Pacific and US. Extensive project management experience with IPA



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