



**JPDC**  
Johor Petroleum Development Corporation

**PIPC**

**PENGERANG  
INTEGRATED  
PETROLEUM  
COMPLEX**

# UNLOCKING THE BUSINESS POTENTIALS OF PENGERANG INTEGRATED PETROLEUM COMPLEX (PIPC)



# PENGERANG INTEGRATED PETROLEUM COMPLEX (PIPC)

JOHOR,  
MALAYSIA

Kota Tinggi

SINGAPORE

Pengerang

PIPC  
Pengerang Integrated Petroleum Complex

Batam

Planned as a **downstream oil and gas hub** accommodating oil refineries, petrochemical processing plants, oil storage facilities and petrochemical product manufacturing plants. Covers an area of **22,904 acres (9,269 hectares or 92.7 sq km)**.

PIPC development planning is managed by **Johor Petroleum Development Corporation Berhad (JPDC)**.

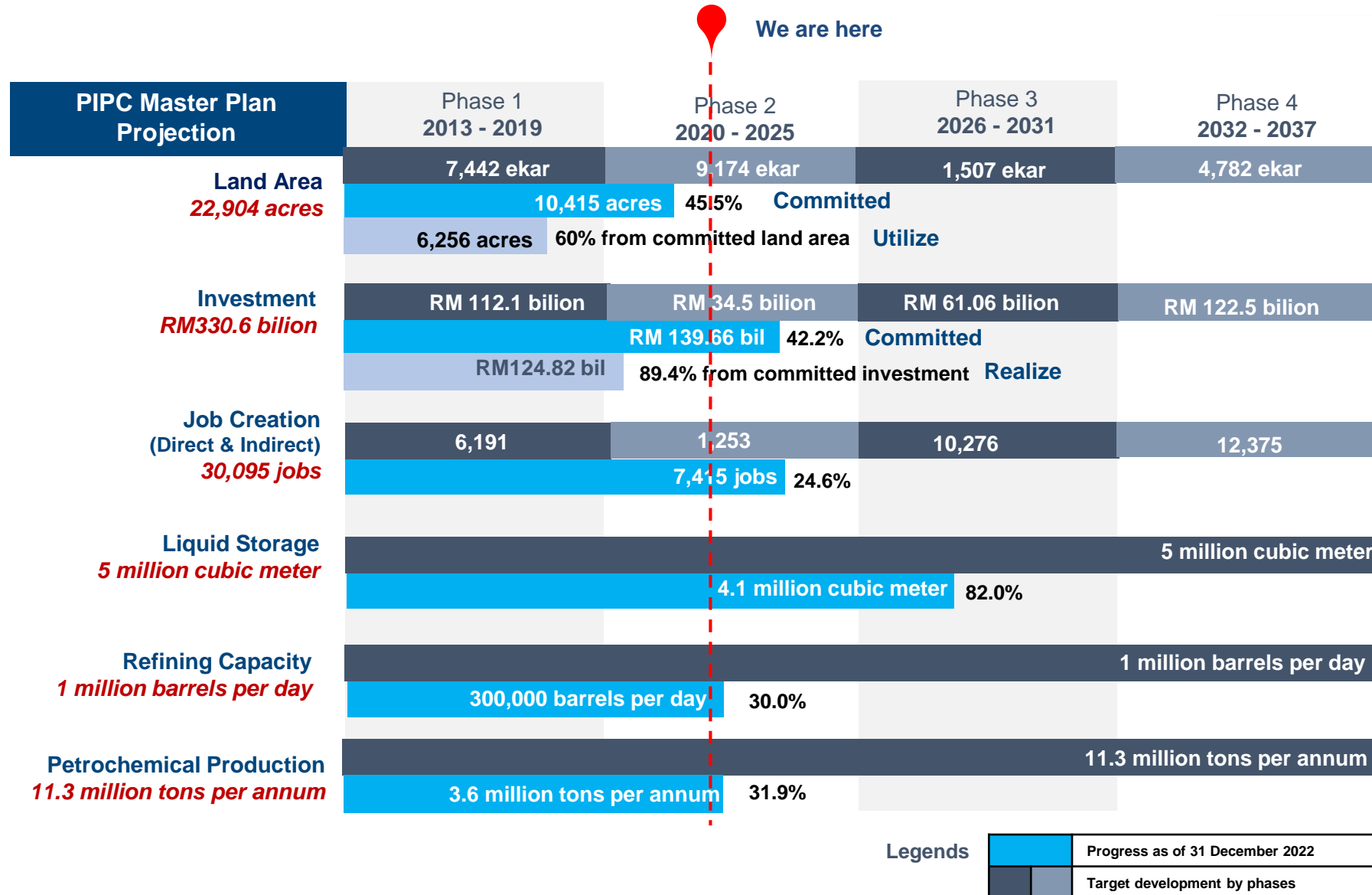






**Johor Petroleum Development Corporation Berhad (JPDC) -**  
a Federal agency reporting to the Ministry of Economy, and a subsidiary of Malaysia Petroleum Resources Corporation (MPRC).

# PIPC performance as at 31 December 2022





Oil Refinery



Naphtha Cracker



Petrochemical

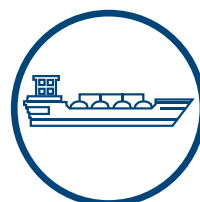
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## PIPC Core Activities

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Liquid Storage



Deepwater Terminal



Specialty Chemical

# Development Areas

1

## Pengerang Integrated Complex (PIC) by PETRONAS

Land area : 6,242 acres

- Integrated refinery and petrochemical complex
- Supported by :
  - Cogeneration power plant
  - Air separation unit
  - Dedicated water supply
  - Common utilities and offsite facilities
- Refinery and selected petrochemical plants are owned and operated by PRefChem, a joint-venture with Saudi Aramco

2

## Pengerang Deepwater Terminals (PDT) by Dialog Group Berhad

Land area : 1,200 acres

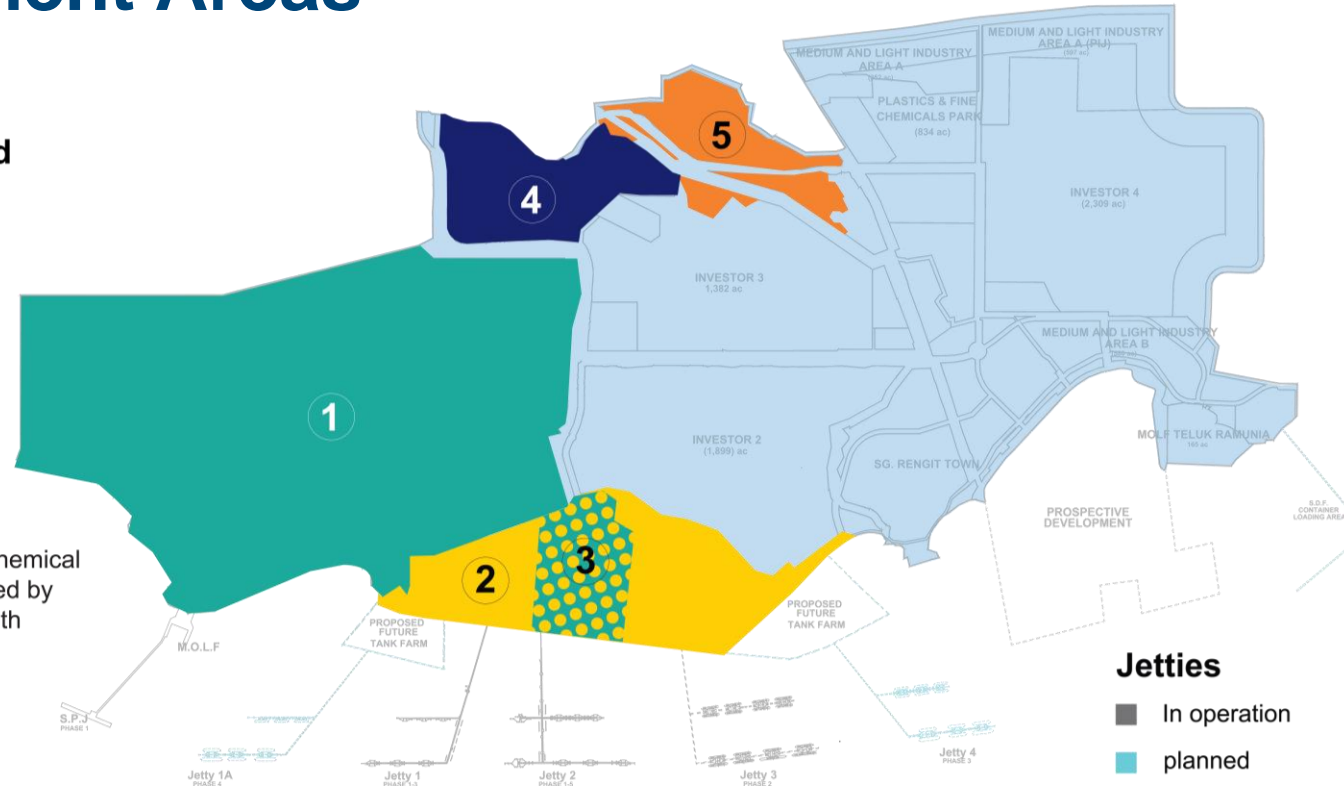
- Phase 1 (PDT1) : Independent storage terminal with total capacity of 1.73 million cubic metres
- Phase 3A : Pengerang Terminal 5 (PT5) & Pengerang Centralised Tankage Facilities (PCTF) : Jetty PT5 received the 1st vessel on 19 March 2021
- Total future storage capacity of 5 million cubic metres

3

## Pengerang Deepwater Terminal 2 (PDT2)

- PDT2A : Project under the development of Pengerang Terminals (Two) Sdn Bhd (PT2SB), a joint venture between Dialog Equity (Two) Sdn Bhd, PRPC Utilities and Facilities Sdn Bhd, Vopak Terminal Pengerang BV and State Secretary, Johor (Incorporated)
- Storage capacity of 1.3 million cubic metres (m<sup>3</sup>) and a deepwater jetty with 11 berths

- LNG Regasification Terminal Pengerang (RGTP) : Owned by Pengerang LNG (Two) Sdn Bhd (PLNG2), a joint venture between PETRONAS Gas Berhad, Dialog LNG Sdn Bhd and Permodalan Darul Ta'zim Sdn Bhd
- Malaysia's second LNG regasification terminal after Regasification Terminal Sungai Udang (RGTSU), features two LNG storage tanks with a total capacity of 400,000 m<sup>3</sup>



5

## OASIS@Pengerang by Perisind Samudra Sdn Bhd

Land area : 678 acres

- Mixed development for commercial and industrial area for:
- Ready facilities with business area with 103 units of shop offices and 372 cozy cabin style rooms
  - Resource recovery & disposal complex for schedule waste

4

## Pengerang Industrial Park (PIP)

by Johor Corporation

Land area : 786 acres

- Integrated industrial park with infrastructures, facilities and amenities
- Accessibility to Pengerang Integrated Complex (PIC) and Pengerang Deepwater Terminals (PDT)
- Targeted industry : Heavy, medium and light

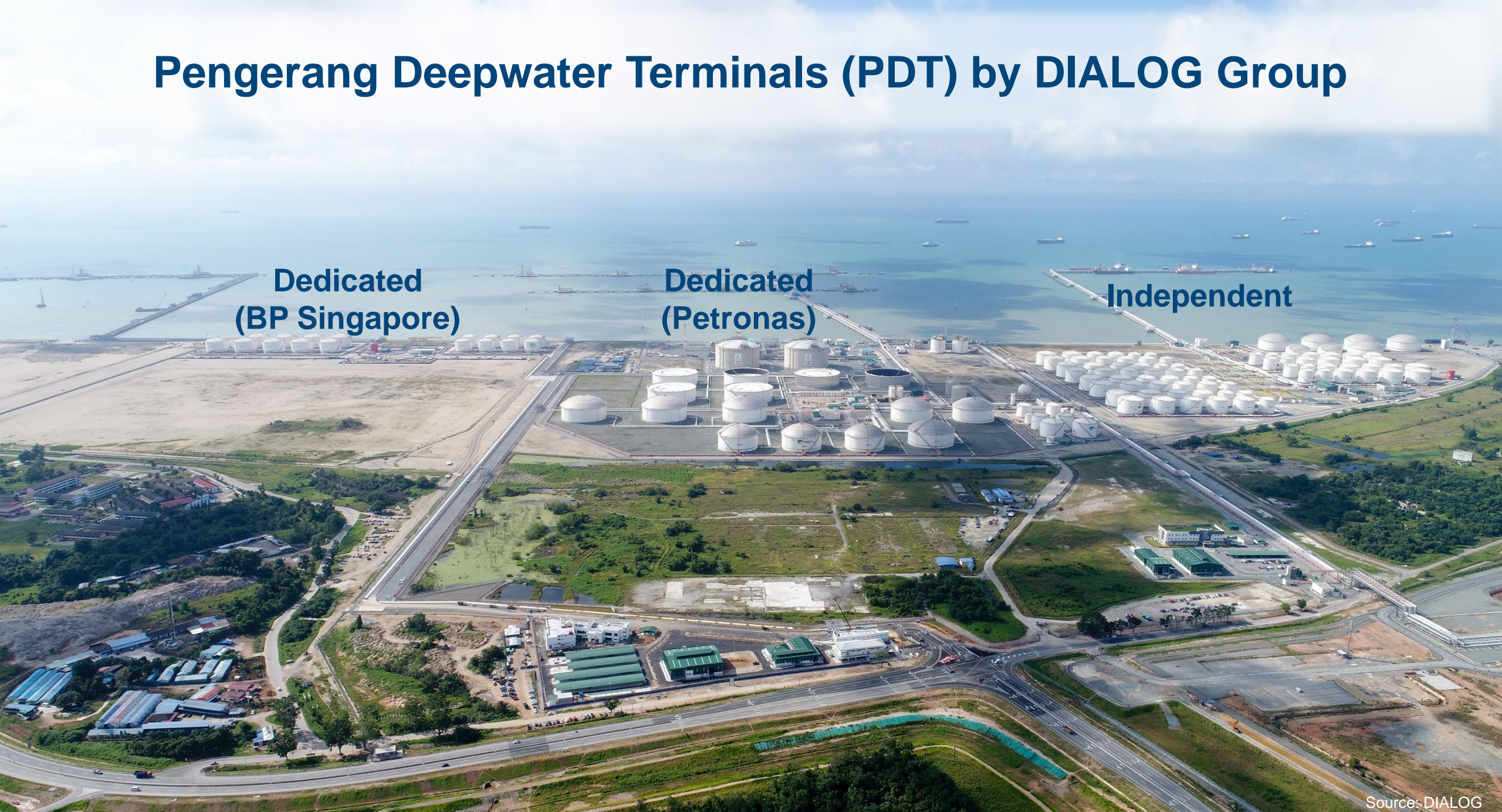


# Pengerang Deepwater Terminals (PDT) by DIALOG Group

**Dedicated  
(BP Singapore)**

**Dedicated  
(Petronas)**

**Independent**



Source: DIALOG



# Pengerang Deepwater Terminals, Phase 1 (PDT1) by DIALOG Group

Independent facility for storage, blending and distribution of crude oil and petroleum products. Completed and commenced operation in the 2nd quarter of 2014.



Source: PETRONAS



# Pengerang Deepwater Terminals, Phase 2A (PDT2A) by DIALOG Group

Dedicated storage terminal for Petronas Integrated Complex.  
Commenced operation on 31 January 2019.



Source: PETRONAS



# Pengerang Deepwater Terminals, Phase 2B (PDT2B) by DIALOG Group

LNG regasification facilities majority owned by PETRONAS Gas.  
Completed and commenced commercial operation on 1 November 2017.



Source: PETRONAS



# Pengerang Deepwater Terminals, Phase 3A (PDT3A) by DIALOG Group

Common tankage facility and dedicated for Dialog Pengerang Terminals 5.  
Completed and commenced operation on 11 February 2021.



Source: DIALOG



# Pengerang Integrated Complex (PIC) by PETRONAS

## Refinery Complex



## Steam Cracker Complex



Source: PETRONAS



# Pengerang Integrated Complex (PIC) by PETRONAS

Solid Product Jetty

Source: PETRONAS



# Pengerang Industrial Park (PIP) by Johor Corporation



Source: Johor Corporation



# PIPC Phase 2 Focus Investment



## Further Downstream Petrochemical Project

To complete the product chain by producing final products from intermediate products, such as:

- The production of plastics and synthetic fibers, derived from intermediate products such as ethylene and propylene



## New Integrated Project with Enhanced Technology

To enhance the competitiveness, efficiency, and sustainability of the downstream oil and gas industry by improving the utilization of feedstocks, reducing waste and environmental impact, example of new technology:

- Crude oil to Chemical (COTC)
- Plastic waste to Chemicals
- Methanol to Olefins (MTO)



## Energy Transition Project

Initiatives towards the low carbon energy system:

- Accelerate the solar energy industry
- New business models to leverage bio-energy resources
- Leverage full hydrogen potential
- Explore the development and demonstration of new energy technologies

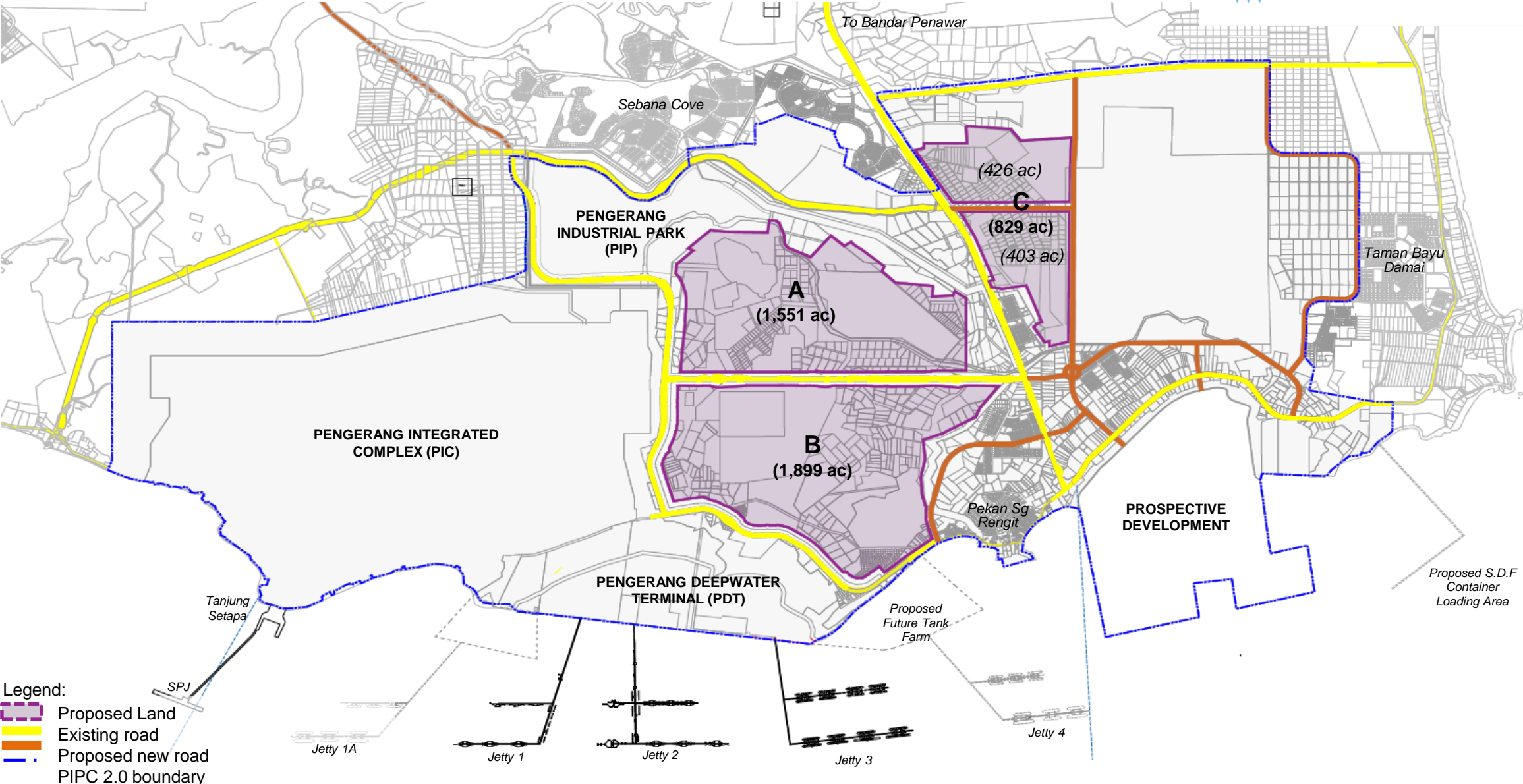


## Prospective Developer for Industrial Park Development

With the industrial land use zoning that PIPC has, there is the opportunity to become a prospective developer for downstream oil, gas and energy hub or supporting services.

- Area A: 1,551 acres
- Area B: 1,899 acres
- Area C: 829 acres

# Future Developments





# Support Services Investment Opportunities



## Integrated Logistic Facilities

- Warehousing and storage facilities
- Laydown areas
- Container logistics zone
- Material receiving and handling
- Solids despatch facility (SDF)



## Waste Management Centre

- Water treatment
- Wastewater treatment
- Solid / concentrated waste gasification
- Heat recovery / power generation



## Maintenance Repair Overhaul and Support Service

- Workshops and fabrication yards
- Supplies and vendors
- Maintenance service provider
- Testing facilities
- Specialised manufacturing and refurbishment

# Investment Facilitation Offered by JPDC in PIPC

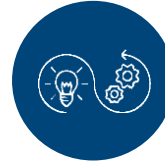


## Pre-Investment Consultation

Preliminary Information study, research and provide information required for investment feasibility study.

Matchmaking potential investors with potential investment partners, government agencies, utilities provider and other related parties.

Consultations on specific sectors: incentives, legal affairs, accounting, taxation, industrial site and other related sectors.



## Investment Execution

Assist the potential investor in coordinating and expediting the required approval for investment in PIPC.

Facilitation in projects implementation.



## Post-Investment Assistance

Assist investor in the resolution of Issues affecting their business operation.

Facilitation for new expansion development plan.





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Thank you

