

ASX Announcement

Monday, 22 November 2021

ASX: WPL
OTC: WOPEY

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SCARBOROUGH FID TELECONFERENCE AND INVESTOR PRESENTATION

A teleconference providing an overview of the Scarborough and Pluto Train 2 developments and a question and answer session will be hosted by Woodside CEO Meg O'Neill at 08.00 AWST (11.00 AEDT) on Tuesday, 23 November 2021.

We recommend participants pre-register 5 to 10 minutes prior to the conference call with one of the following links:

- <https://webcast.openbriefing.com/8165/> to listen to a live stream of the conference call and view the presentation slides
- <https://s1.c-conf.com/diamondpass/10017965-mas722.html> to participate in the conference call with the ability to queue to ask questions.

Following pre-registration, participants will receive the teleconference details and a unique access passcode.

An investor presentation follows this announcement and will be referred to during the conference call.

The presentation is to be read in conjunction with the announcement "Scarborough and Pluto Train 2 developments approved" released to the ASX earlier today.

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This ASX announcement was approved and authorised for release by Woodside's Disclosure Committee.



SCARBOROUGH DEVELOPMENT APPROVED

INVESTOR PRESENTATION

22 November 2021

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Disclaimer, risks and assumptions

Disclaimer and risks

- This presentation contains forward looking statements that are subject to risk factors associated with oil and gas businesses.
- It is believed that the expectations reflected in these statements are reasonable as at the date of this presentation but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to: price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, changes in accounting standards, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates. Some matters are subject to approval of joint venture participants.
- Woodside makes no representation, assurance or guarantee as to the accuracy or likelihood of fulfilment of any forward-looking statement or any outcomes expressed or implied in any forward-looking statement. The forward-looking statements in this presentation reflect expectations held at the date of this presentation. Except as required by applicable law or the ASX Listing Rules, Woodside disclaims any obligation or undertaking to publicly update any forward-looking statements, or discussion of future financial prospects, whether as a result of new information or of future events.
- This presentation does not include any express or implied prices at which Woodside will buy or sell financial products.

Notes to petroleum resources estimates

1. Unless otherwise stated, all petroleum resource estimates are quoted as at the balance date (i.e. 31 December) of the Reserves Statement in Woodside's most recent Annual Report released to the Australian Securities Exchange (ASX) and available at <https://www.woodside.com.au/news-and-media/announcements>, net Woodside share at standard oilfield conditions of 14.696 psi (101.325 kPa) and 60 degrees Fahrenheit (15.56 degrees Celsius). The Reserves Statement dated 31 December 2020 has been subsequently updated by ASX announcements dated 15 July 2021, 18 August 2021, 21 October 2021, 5 November 2021 and 22 November 2021. Woodside is not aware of any new information or data that materially affects the information included in the Reserves Statement. All the material assumptions and technical parameters underpinning the estimates in the Reserves Statement continue to apply and have not materially changed.
2. Woodside reports reserves net of the fuel and flare required for production, processing and transportation up to a reference point. For offshore oil projects, the reference point is defined as the outlet of the floating production storage and offloading facility (FPSO), while for the onshore gas projects the reference point is defined as the inlet to the downstream (onshore) processing facility.

3. Woodside uses both deterministic and probabilistic methods for estimation of petroleum resources at the field and project levels. Unless otherwise stated, all petroleum estimates reported at the company or region level are aggregated by arithmetic summation by category. Note that the aggregated Proved level may be a very conservative estimate due to the portfolio effects of arithmetic summation.
4. 'MMboe' means millions (10⁶) of barrels of oil equivalent. Dry gas volumes, defined as 'C4 minus' hydrocarbon components and non-hydrocarbon volumes that are present in sales product, are converted to oil equivalent volumes via a constant conversion factor, which for Woodside is 5.7 Bcf of dry gas per 1 MMboe. Volumes of oil and condensate, defined as 'C5 plus' petroleum components, are converted from MMbbl to MMboe on a 1:1 ratio.
5. The estimates of petroleum resources are based on and fairly represent information and supporting documentation prepared under the supervision of and approved by Mr Jason Greenwald, Woodside's Vice President Reservoir Management. Mr Greenwald is a full-time employee of the company and a member of the Society of Petroleum Engineers. His qualifications include a Bachelor of Science (Chemical Engineering) from Rice University, Houston, Texas, and more than 20 years of relevant experience.

Assumptions

- Unless otherwise indicated, the targets set out in this presentation have been estimated on the basis of a variety of economic assumptions including: (1) a US\$65/bbl Brent oil price (2022 real terms, inflated at 2.0%); (2) currently sanctioned projects being delivered in accordance with their current project schedules; and (3) applicable growth opportunities being sanctioned and delivered in accordance with the target schedules provided in this presentation. These growth opportunities are subject to relevant joint venture participant approvals being obtained. Woodside expresses no view as to whether its joint venture participants will agree with and support Woodside's current position in relation to these opportunities. Additional assumptions relevant to particular targets or other statements in this presentation may be set out in the relevant slides. Any such additional assumptions are in addition to the assumptions and qualifications applicable to the presentation as a whole.
- Woodside "greenhouse gas" or "emissions" information presented are Scope 1 and Scope 2 emissions released to the atmosphere as a result of an activity, or series of activities at a facility level. Greenhouse gas definitions and global warming potentials to convert emissions into tonnes of carbon dioxide equivalent (tCO₂-e) are as per Australia's National Greenhouse and Energy Reporting scheme.

Other important information

- All references to dollars, cents or \$ in this presentation are to US currency, unless otherwise stated.
- References to "Woodside" may be references to Woodside Petroleum Ltd or its applicable subsidiaries.

Scarborough development approved

1

DEVELOPS WORLD-CLASS RESOURCE

Offshore development of **11.1 Tcf dry gas** (100%)

Leverages **existing infrastructure**

Utilises **Woodside's core capabilities**

2

PROVIDES LONG-TERM RETURNS

Enduring value for Woodside shareholders

Capital expenditure reduced by Pluto Train 2 sell-down

~60% of Scarborough **capacity contracted**¹

3

SUPPORTS DECARBONISATION

~**0.1% CO₂** in reservoir

Supports **decarbonisation goals** of our customers in **Asia**

Contributes cashflow to **fund the energy transition**

1. At Woodside's current upstream equity interest of 73.5%.

Key project data



OFFSHORE DEVELOPMENT

11.1 Tcf
resource size, 100%

~0.1 %
CO₂ in reservoir

8
subsea **high-rate**
gas wells in phase 1



ONSHORE DEVELOPMENT

5 Mtpa + up to **3** Mtpa
Pluto Train 2 Pluto Train 1
production capacity

225 TJ/day
new **domestic gas** capacity

>\$3.5 billion
capital expenditure **released through**
Train 2 sell down to GIP



COST

\$5.7 billion
offshore component
capital cost, 100%

\$6.3 billion
onshore component
capital cost, 100%

\$6.9 billion
Woodside total capital cost¹



RETURN

>13.5 %
internal rate of return²

~\$5.8 per MMBtu
cost of supply²

~6 years
payback period²

1. Assumes Woodside equity of 73.5% in Scarborough and 51% in Pluto Train 2, includes GIP's additional funding of ~\$835m of capital expenditure from the sell-down of Pluto Train 2 and excludes contingent payments due on FID.
2. IRR, Woodside cost of supply and payback period assume Woodside equity of 73.5% in Scarborough, 51% in Pluto Train 2 and 90% in Pluto LNG; includes GIP's additional funding of ~\$835m of capital expenditure from the sell-down of Pluto Train 2 and payments due on FID to ExxonMobil and BHP. IRR and payback period are a look forward from January 2021 and assume US\$65/bbl (real terms 2022) Brent oil price. The integrated Woodside cost of supply (real terms 2021) is based on a 10% rate of return (both upstream and downstream), includes shipping to north Asia and is a look forward from January 2020. Payback period is calculated from undiscounted cash flows, RFSU + approximately 6 years.

Targeting first cargo in 2026

OFFSHORE DEVELOPMENT

Reservoir

- 11.1 Tcf dry gas (100%)¹
- 1.4 billion boe (2P, Woodside share)

Floating production unit

- 8 Mtpa of LNG plus domestic gas²
- 950m water depth

Subsea, umbilicals, risers and flowlines

- 8 wells at RFSU, 13 over field life
- Industry standard 7" subsea trees

Trunkline

- ~430 km to the Pluto LNG facility
- Optimal location for future tie-backs

ONSHORE DEVELOPMENT

Pluto Train 2

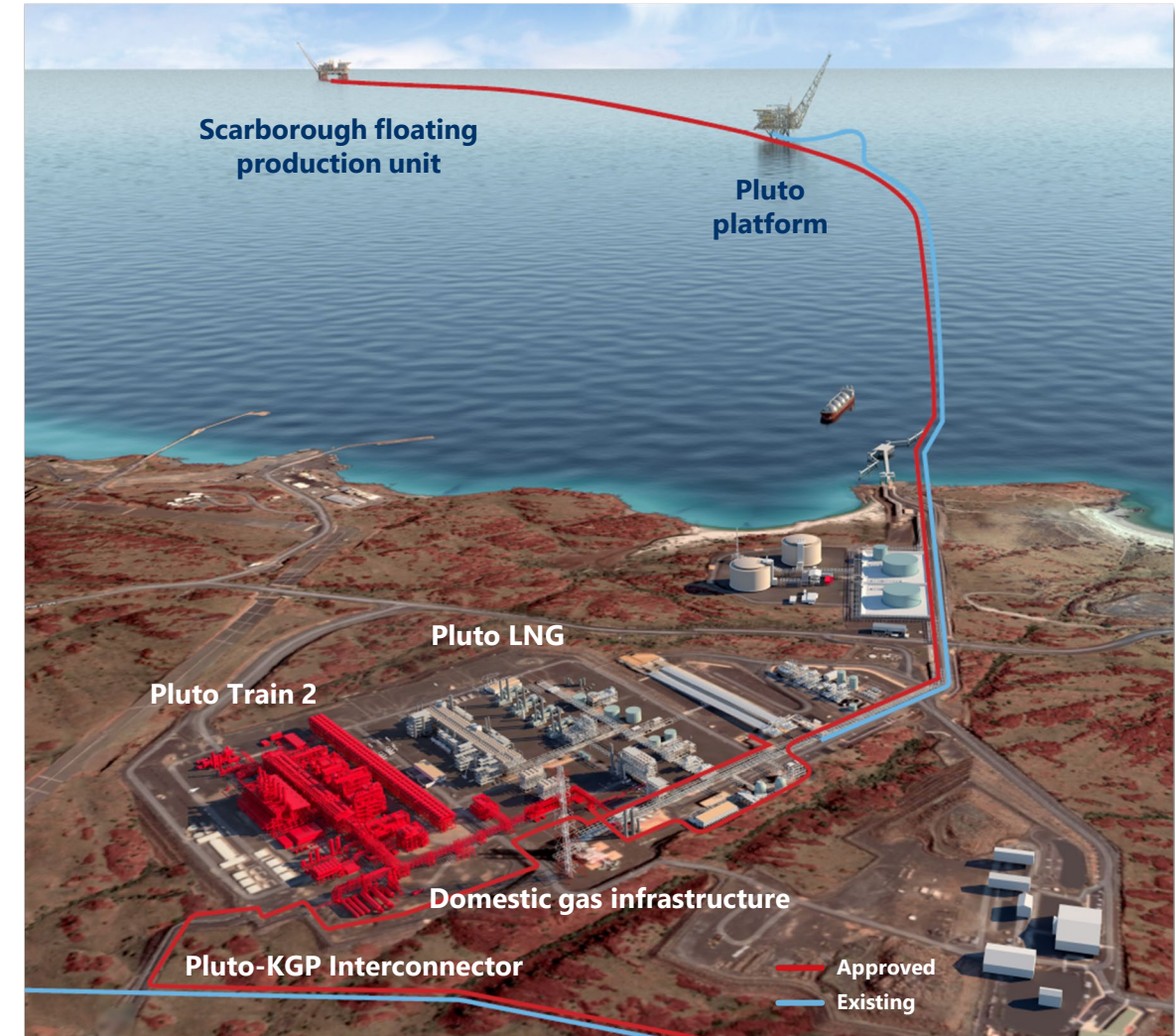
- New train with 5.0 Mtpa capacity
- Optimized Cascade™ technology

Pluto Train 1

- Modifications to process up to 3 Mtpa of Scarborough gas

Domestic gas

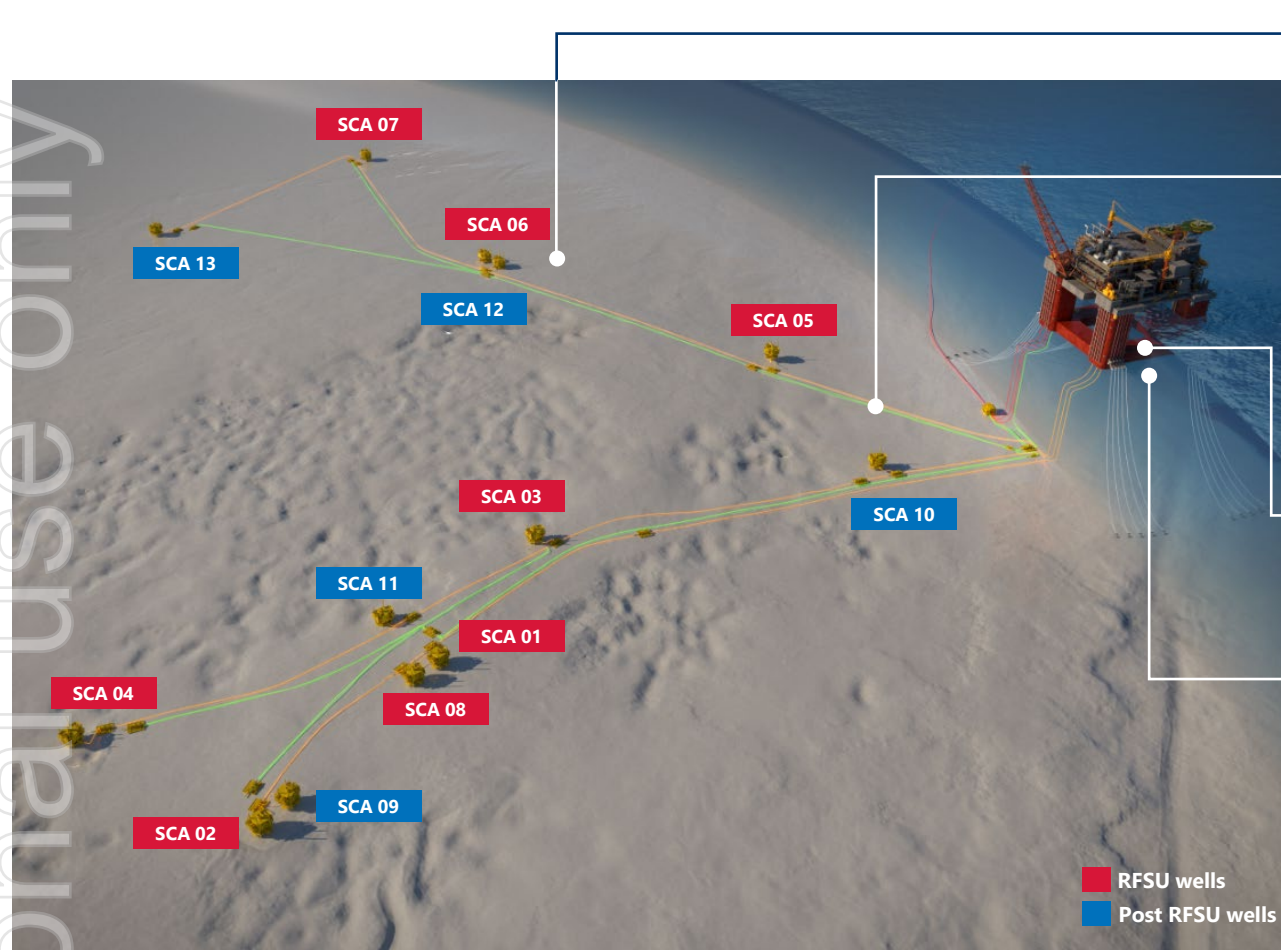
- New domestic gas plant with 225 TJ/day capacity



Conceptual image, not to scale.

1. Net of non-saleable inerts and upstream fuel and flare.
2. Feedgas equivalent.

Optimised and mature offshore development



1 Wells and reservoir

- Infrastructure for up to 20 wells
- 250 mmscf/d per well maximum production
- Gas composition: ~95% CH₄, ~5% N₂, ~0.1% CO₂
- Short completion length, open hole gravel pack wells

2 Subsea, umbilical, risers and flowlines (SURF)

- Three 16" carbon steel gathering flowlines
- Three import and three export 14" flexible risers

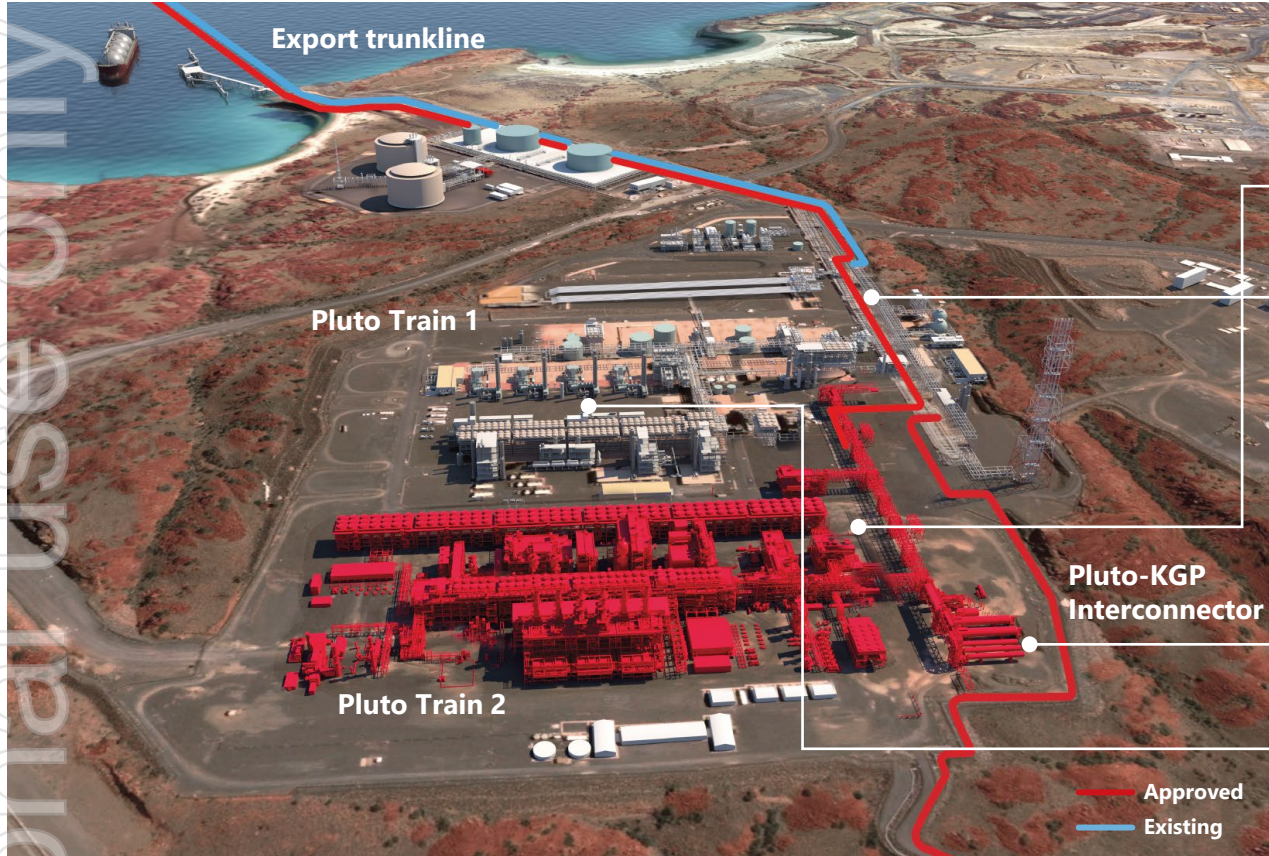
3 Semi submersible floating production unit (FPU)

- 1,750 mmscf/d capacity
- ~36,000t hull and ~30,000t topside¹
- Separation, dehydration, compression
- Mono-ethylene glycol regeneration, storage and injection
- Remotely operated from Perth
- Allowances for future FPU tie-backs

4 Export trunkline

- ~240 bar absolute design pressure
- Utilises the NWS shipping channel and existing shore crossing corridors created by the Pluto foundation project

Onshore development utilising existing facilities



1 New Pluto Train 2

- Optimized Cascade™ technology
- Engineering, procurement and construction (EPC) contract awarded to Bechtel
- Six LM6000 PF+ aeroderivative gas turbines for refrigerant drivers
- New refrigerant storage and import facilities
- Gas turbine generator connecting to Train 1 power system

2 Existing plant modifications

- Power generation, control room and flare integration
- Storage and loading rundown tie-ins for the new Pluto Train 2
- Boil off gas recovery from storage to the new Pluto Train 2
- Utilities, power generation and fuel gas system upgrades to support new capacity

3 Domestic gas facility

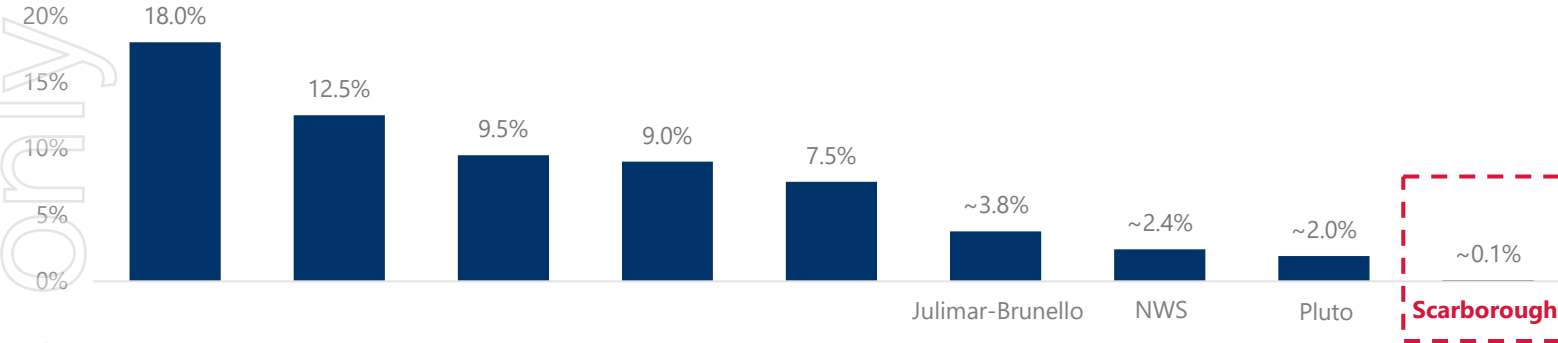
- Compression, metering and minor treatment

4 Existing Pluto LNG facility

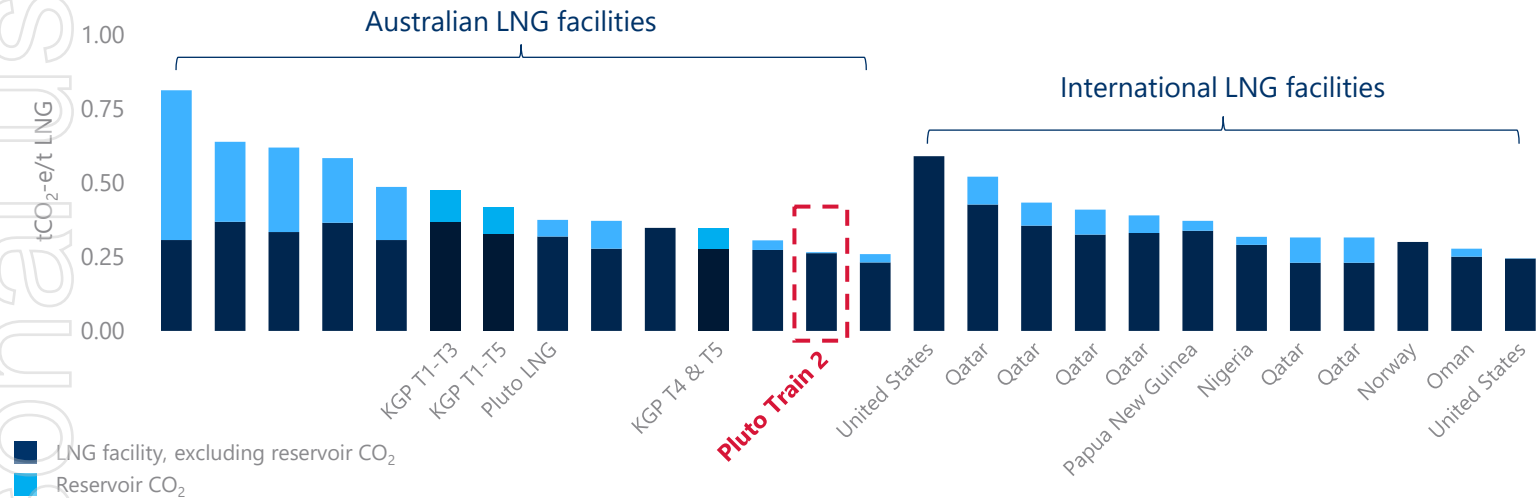
- Reliable plant designed for lean gas and high nitrogen
- Existing LNG storage and loading supporting up to 12 Mtpa
- Minimal disruption to existing operations

Contributing to a lower-carbon future

Reservoir CO₂ in relation to other Australian LNG projects¹



Amongst the lowest carbon intensity LNG sources^{2,3}



1. Source: Scarborough Offshore Project Proposal. Dataset includes Barossa, Browse, Gorgon, Ichthys and Prelude. Where a range for reservoir CO₂ was disclosed for other reserves, midpoint value taken for the chart.

2. Source: publicly available company information.

3. Scarborough gas processed through Pluto Train 2.

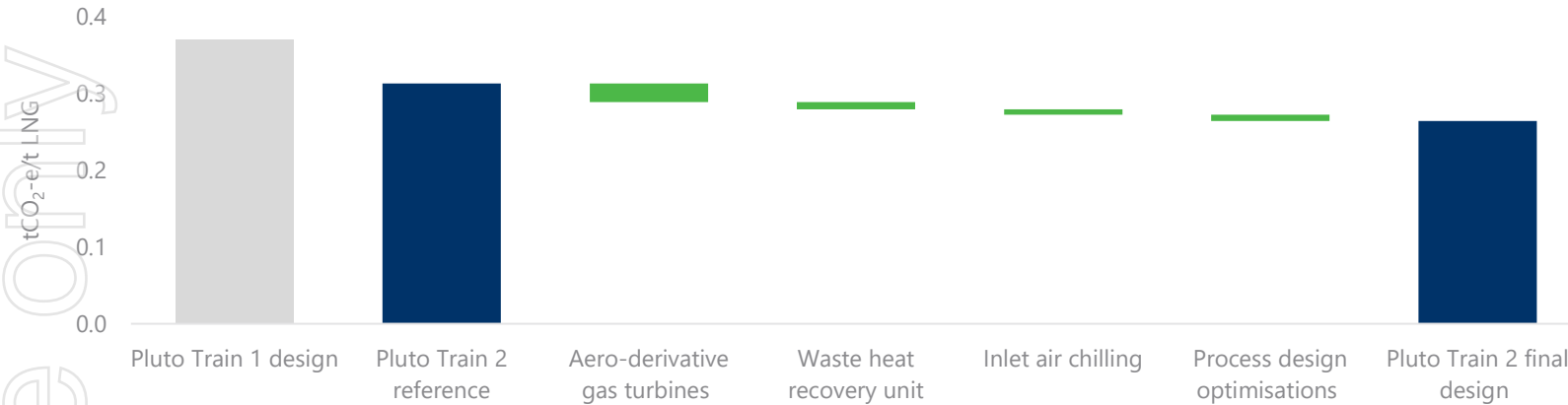
LNG assists coal-to-gas switching in Asia

Aligned with our customers' decarbonisation goals

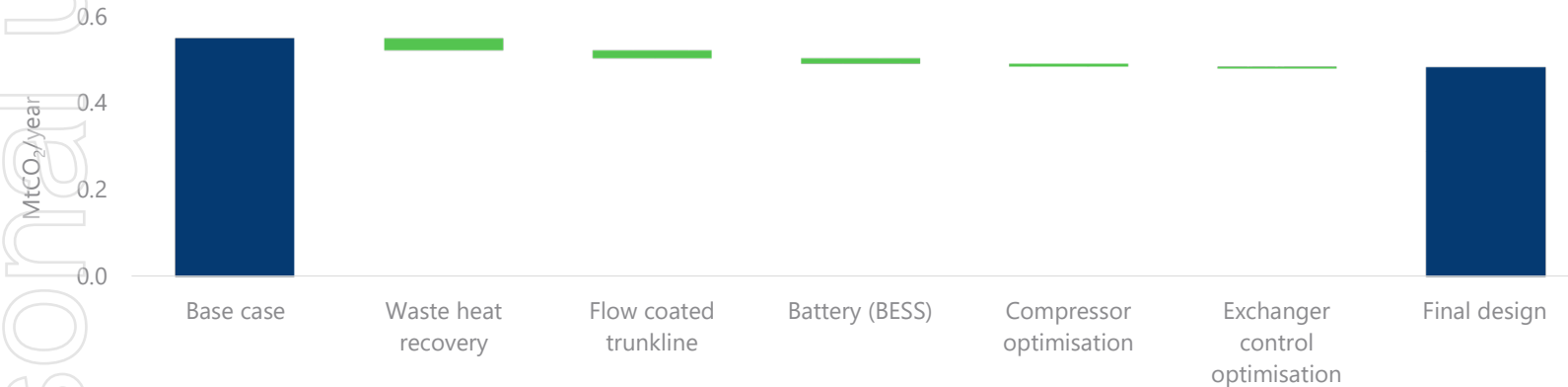
Will be one of the lowest carbon intensity projects for LNG delivered to customers in north Asia³

Emissions reduced through design out

Pluto Train 2 design improvements in greenhouse gas intensity



Offshore design improvements achieving ~12% reduction in emissions



Assessing other opportunities to reduce emissions

Path to net zero includes Scarborough development

15%
by 2025

30%
by 2030

Net zero
aspiration by 2050

Woodside's equity emissions reduction targets¹

¹ Baseline is set as the gross average equity Scope 1 and 2 emissions over 2016-2020 and may be adjusted (up or down) for potential equity changes in producing or sanctioned assets, with an FID prior to 2021. Baseline will be adjusted for the combined Woodside and BHP petroleum portfolio subject to final agreements and approvals.

Commercial and accounting

COMMERCIAL AGREEMENTS

- Fully termed processing and services agreement (PSA) executed for processing of Scarborough gas through Pluto LNG facilities
- The PSA allows the Scarborough Joint Venture to access:
 - LNG processing services at a rate of up to 8 Mtpa
 - Domestic gas processing services up to 225 TJ/day

EQUITY SALE

- Sale and purchase agreement entered into with Global Infrastructure Partners (GIP) for the sale of a 49% interest in Pluto Train 2¹
- GIP will fund its 49% share plus an additional amount of capital expenditure of approximately US\$835 million
- Completion expected in January 2022

ACCOUNTING IMPLICATIONS

- Increase in useful life for Pluto onshore assets, reducing annual depreciation
- Capitalisation of borrowing costs from FID to start-up, reducing net finance cost

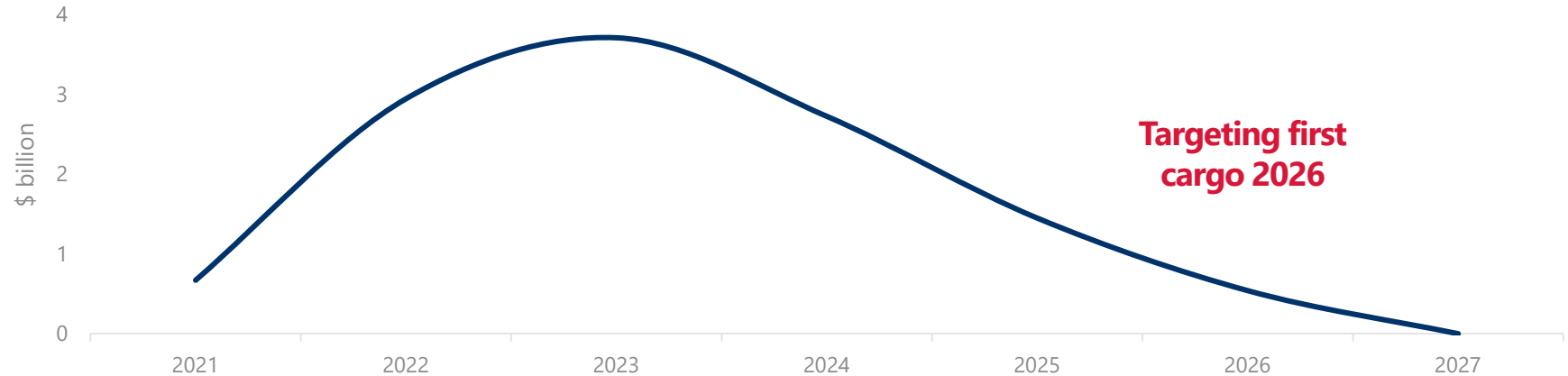
1. Refer to ASX announcement dated 15 November 2021.

Capital cost and integrated schedule

Capital cost of US\$12.0b (100%)

Peak spend 2023

Indicative annual spend (100%)¹



SURF



Detail design | procurement | fabrication

Flowline reel lay

Flex lay

Trunkline



Detail design | procurement | fabrication | coating | transport

Lay | precommission

Drilling and completions



Drilling

FPU

MCDERMOTT

Design | procurement

Fabrication | yard commissioning

Integration | start-up

Pluto Train 2



Design | procurement | fabrication

Construction

Commissioning | start-up

1. Excluding contingent payments due on FID.

De-risked execution

RISKS

MITIGATIONS

COST

Scope maturity and EPC lump sum provides **cost certainty**

All commodities and labour **rise and fall mechanisms agreed**

75% of steel pricing expected to be **locked in** by Q1 2022

CONTRACTING

Major execute contracts have been re-validated, incorporating market and commodity pricing

At FID, greater than **90% of pricing is lump sum or fixed rate**

SCHEDULE

Continuity of contractor from FEED to execute pre-FID work

De-risked **integrated project development schedule**

REGULATORY

Federal and State primary environmental approvals to support FID in place

COVID-19

Offshore contractors have **continued to operate** in the current environment

Cost and schedule **risk analysis accounted for additional impacts**; scenarios have been stress tested

Scarborough development approved

DEVELOPS WORLD-CLASS RESOURCE

11.1 Tcf
resource size, 100%

8 Mtpa
development plus
225 TJ/day domestic gas

957 MMboe
Increase to **1P reserves**

1,433 MMboe
Increase to **2P reserves**

Capital efficient development
leveraging existing infrastructure

De-risked contracting model, development concept and execution strategy

PROVIDES LONG-TERM RETURNS

> 13.5 %
internal rate of return¹

~\$5.8 per MMBtu
globally competitive cost of supply¹

~6 years
payback period¹

\$6.9 billion
Woodside capital cost
73.5% offshore, 51% onshore²

~\$26 billion
expected net cash flow¹

Increased jobs, taxation revenue and supply of gas to domestic and export markets

SUPPORTS DECARBONISATION

~0.1 %
CO₂ in reservoir

~0.26 tCO₂-e/
t LNG
Train 2 design intensity

Assessing other options to **reduce emissions**

Path to net zero includes Scarborough development

Amongst the lowest carbon intensity projects for LNG delivered to north Asia³

Contributes **cashflow to help fund the energy transition**

Targeting first cargo 2026

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3. Scarborough gas processed through Pluto Train 2.

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