On track to becoming a fully integrated renewable energy producer







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DEFINITIVE FEASIBILTY STUDY

For information in this document relating to the Definitive Feasibility Study (DFS), refer to ASX announcement dated 20 March 2023. The Company confirms that in relation to the DFS announced on 20 March 2023, it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions underpinning the forecast financial information included in that announcement continue to apply and have not materially changed.

Renewable Energy solution in the heart of industrial WA

Frontier Energy (FHE.ASX, OTCQB: FRHYF) has announced the proposed acquisition of Waroona Energy (WHE.TSXV) that aims to create a large-scale Australian renewable energy company, with shovel-ready solar generation of 355MW and the potential to expand to more than 1GW in South West Western Australia¹

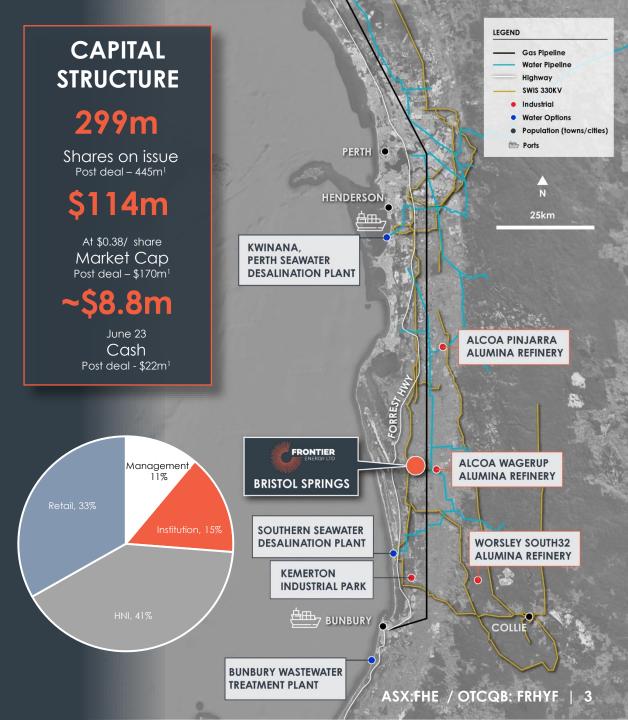
• Target completion of transaction - December 2023

Staged development approach that targets high demand markets and future growth opportunities

- 1) Solar Energy Approvals, permits and grid connection in place
 - Stage One targeting 120MW, capex being firmed / finalised
- 2) 120MW dual fuel hydrogen peaking plant
 - Offtake for green hydrogen and access to peak energy prices
- 3) Green Hydrogen 72MW Electrolyser
 - DFS complete; Submission for Headstart program 1Q2024

What makes Frontier unique to other renewable energy players?

- Access to existing world class infrastructure that is essential for the renewable electricity and green hydrogen industries
 - Significantly reduces the cost and time to first production





Western Australian Electricity market

The SWIS (South West Interconnection System)

- AMEO recently announced¹ the SWIS is facing a "major supply-demand deficit over the next decade and there is an <u>urgent</u> and <u>imminent</u> requirement for investment in new electricity generation"
- Major change in forecast compared to 12 months earlier when AMEO highlighted the SWIS was in a good position....what were the factors that caused this significant change in only 12 months?

Demand

- Forecast increase of between 78%¹² and 220%¹³ over the next decade compared to previous estimate that was relatively flat
- This increase in demand was driven by electrification, growth in airconditioning, EV uptake and expansion of industrial loads

Supply

- The Federal Government is targeting 82% renewable power generation by 2030
 - SWIS currently has 35%⁴ renewable energy
- The State has announced the planned closure of all coal fired power capacity by 2030¹. This is currently 25-30% of supply

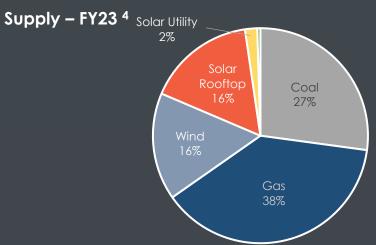
What is being done in response to this?

The State is planning a major expansion of the grid. This will however take time to complete, as will development of additional generation capacity.

Demand - Consumption forecast over the next decade¹



Note *2022 Forecast is to 2031/2032



 https://aemo.com.au/en/energy-systems/electricity/wholesale-electricity-market-wem/wem-forecasting-and planning/wem-electricity-statement-of-opportunities-wem-esoo;
 2 – Base Case 2032/33 demand;
 3 - OpenNEM: Western Australia (SWIS)

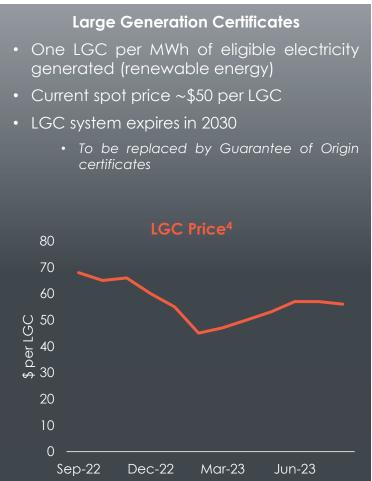


Electricity prices already on the rise in WA

Participants in the WA electricity market can receive revenue from three main sources

Wholesale Market Sales¹ (WEM) Over the last year the average price increased by 48% to \$82/MWh Solar period price² increased by 50% to \$66/MWh Afternoon peak energy price (4pm – 9pm) increased 45% to \$119/MWh Average electricity price 140 100 80 60 20 1Q212Q213Q214Q211Q222Q223Q224Q221Q232Q23 Average price - 24 hours Average price - afternoon peak ••••• Average price - solar





^{4 -} https://www.demandmanager.com.au/certificate-prices/

Energy prices¹ continue to trend higher at all times of the day

Multiple trends indicate energy prices are going to continue to rise

- Year on year at all times of the day energy prices have increased for the past 3 years
- Two peak periods have emerged (morning and afternoon) and the duration and price in both have expanded
- Whilst the "duck curve" is evident the water below the duck (low prices) keeps getting higher

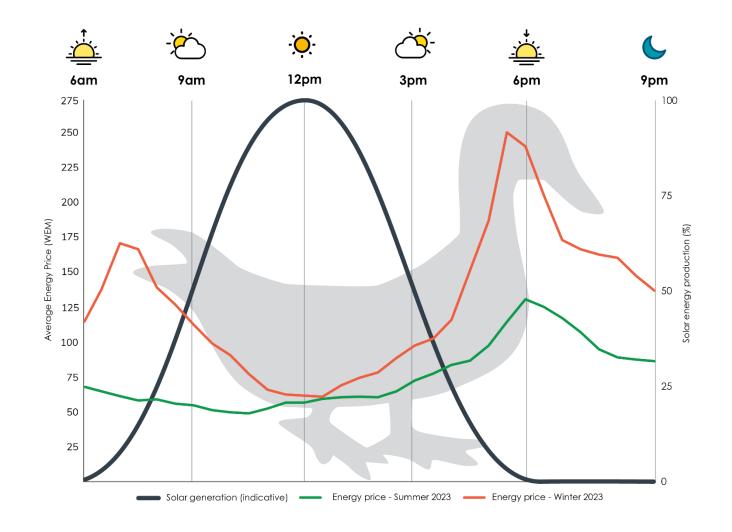
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1 - AEMO; https://opennem.org.au/energy/wem/?range=7d&interval=30m; where negative prices have been recorded, these have been taken as 0;



Why solar is our renewable energy solution?

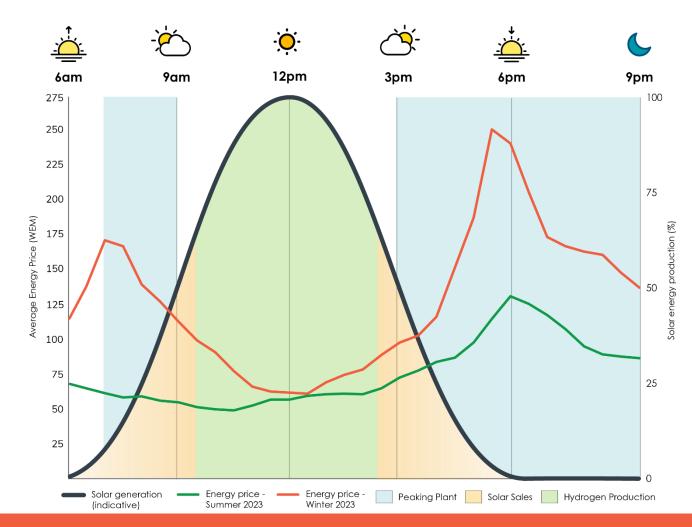
- Solar is one of the most advanced and reliable renewable energy solution today
- Capital costs for solar have fallen significantly in the past decade whilst innovation upside is arguably nearing its peak
- Australia has some of the world's best solar conditions and WA has the longest daylight hours in the country
- WA has one of the world's highest installation rates of rooftop solar (PV) at 38%¹
 - PV = $\sim 16\%^2$ of WA (SWIS) electricity supply
 - Estimated max. PV installation is ~ 50% by 2030
- PV has been the major cause for the "duck curve" and the impact on day time electricity prices
 - price dips to low/negative during peak solar conditions when demand is also low



^{1 -} https://aemo.com.au/-/media/files/electricity/wem/planning_and_forecasting/esoo/2023/2023-

Solar energy to power our hydrogen strategy in low price periods

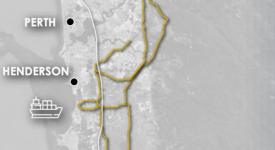
- Despite the "duck curve" the average solar price the Company would have received (including nil priced periods) would have been a 50% increase (\$66/MWh)1 compared to the previous year
 - Shoulder period prices increased
 - Winter solar prices increased
- Frontier is developing a multi pronged strategy, aimed at meeting the electricity markets needs whilst maximizing our profitability
 - Solar energy sales shoulder period
 - Green hydrogen production midday
 - Peaking plant (hydrogen consumptions) early evening/early morning (peak energy consumption)



1 – last 12 months - source: AEMO; https://opennem.org.au/energy/wem/?range=7d&interval=30m

Frontier strategy is to dynamically optimise production to suit the prevailing market conditions

Staged development that targets high demand markets and future growth opportunities





- Well understood technology and market
- All key permits, approvals and connection in place
- Stage One targeting 120MW
 - Expansion potential +1GW
- Solar sales shoulder period > \$50/MWh
- Low demand power hydrogen electrolyser



Using the grid as a virtual battery

- Buy energy (& LGC) in low price, non solar environment
- Increases utilisation of electrolyser
- Meet the market's future demand for hydrogen
 - Solving the chicken and egg



Hydrogen

- DFS completed1 36MW & 72MW
 - 72MW produces 10Mkg pa
- All key and essential infrastructure in place
 - Lowers initial cost and time to production
- Optimise final production profile and strategy based on final "Hydrogen Headstart" guidelines - 4Q23



COLLIE

SWIS (330kV lines)



Hydrogen fuelled (dual fuel) peaking plant

- Pathway for initial hydrogen consumption
 - WA Government target 1% green hydrogen on the grid
- DFS underway 120MW²
- Provides grid stability and utilises connection
- Highly leveraged RCP underpins debt capacity





Access to existing world class infrastructure that is essential for the renewable energy and green hydrogen industries

Infrastructure	FHE – size of opportunity currently in place	If this aspect was not in place what would be the barrier?	Cost to replicate	Additional considerations and time	
Power Terminal	Approved connections for 355MW1 Grid connection capacity 1.1GW1	No access to electricity market	\$100m to \$500m a new terminal	3-5yrs (min.) Requires studies completed by Western Power	LEGEND Frontier freehold land acquired Land acquisition settlement Nov 2023 Waroona Energy 330kv Lines
Free hold land	868ha ¹ Sufficient for +1GW of solar coverage No native title	Limited opportunities with surrounding infrastructure	No identical opportunities in WA No tenement system for renewables - WA	+5yrs Requires Permits and Approvals	Gas Pipeline Scheme Water Pipeline Existing Landwehr Terminal (SWIS connection point) Stirling Trunk Pipeline
Gas pipeline (DBNGP)	Peaking plant energy supply and hydrogen offtake	No access to natural gas No opportunity for H2 / natural gas blending	\$100m to +\$1bn	+5yrs Requires Permits and Approvals	Proposed water pipeline to project
Water access	Agreement w/ Water Corp for 1,250 KI/day ²	Desalination Plant	\$100m to \$1bn (size dependent)	2-5yrs (min.) Environmental studies Approvals	N. Ikm

– ASX Announcement – 4 September 2023; 2 - ASX Announcement – 14 March 2023



Solar – the foundation for Frontier's renewable energy strategy

Solar Energy – pillar for future development pathway

- Land¹ 868Ha of flat, freehold land which is predominantly cleared
- All major approvals, heritage and permits in place allowing for solar construction to commence
- Two connections to the Landwehr Terminal providing up to 1.1GW¹ of electricity production (export)

Stage One development targeting 120MW

- Class 2 cost estimate for complete project execution underway
 - Including progressing the design, size and technology selection. This will also enable a final capital cost estimate
 - Following this, the board will be in a position to make FID to commence construction of the Stage One solar facility

Potential Stage One Solar EBITDA^{2,3,4}



- 1 ASX announcement 4 September 2023
- 2 Assumes \$65/MWh sale price, LGC price of \$45, Reserve Capacity Credit of 25% x \$193,400/MW
- 3 See ASX announcement 20 March 2023 DFS





Peaking Plant – pathway for green hydrogen consumption

What is a Peaking Plant?

- Peakina Plants are mature technology used to supply power and operate during periods of high demand (and pricing) for electricity
- Peaking Plants are a first mover in the consumption of hydrogen as a fuel, given existing market mechanisms that are already in place
 - The WA Government has announced plans to legislate 1% of the SWIS to come from areen hydrogen

Green hydrogen (dual fueled) peaking plant study underway – 120MW

- Waroona Energy has commenced a Study assess the development of a green hydrogen (dual fuel) peaking plant1
 - Completed during 4Q2023
- The peaking plant can be fuelled by both green hydrogen and natural gas
 - Dampier to Bunbury Natural Gas Pipeline adjacent to the Project

Reserve Capacity Payments (RCP) provide bankability

- At 120MW, the RCP would be ~A\$23m pa based on the 2025/26 Benchmark of \$193,400/MW
 - A 1.3 X factor for 'additional required capacity' could potentially increase this to ~A\$30m per annum
- RCP can be locked in for five years providing revenue certainty and with it debt financing



Potential Green Hydrogen Consumption³

	Percent of hydrogen consumed (by volu				
Run time per annum	25%	50%			
1,000 hours	1,035 tpa	2,610 tpa			
2,000 hours	2,070 tpa	5,220 tpa			

- 1 ASX Announcements 5 July 2023 and 30 August 2023
- 3 Based on preliminary technology assessment

Hydrogen Headstart - What is required to be considered?



Australian Federal Government \$2bn for Hydrogen announces Headstart, providing revenue support for large-scale renewable hydrogen projects through competitive hydrogen production contracts

Additional funding programs likely after this first initiative

Drace	ام مربم	:	-1:	1::
Process	ana	Indic	ative	

Stage	Timing	
Consultation	2Q23	~
EOI	4Q23 / 1Q24	
Initial evaluation	2Q24	
Second Round	3Q24	
Allocation	4Q24	
Funding	2026/27	

Key criteria to be considered

Criterion	Frontier's Position	
Minimum Electrolysis – 50MW	72MW	/
Eligible end uses / offtake	Initial consumption through a peaking plant or supplementing domestic natural gas supply	/
Hydrogen production by renewable energy	Powered by our 120MW solar facility	~
Comply with the proposed GO Scheme	Frontier's project is pre-certified under the zero carbon certification scheme (One of only three projects in Australia)	~
Location – Australia only	Waroona - 120km south of Perth (Lead Project status with the Western Australian Government)	/

Frontier meets ALL of the key criteria to be a leader for consideration



Sustainability

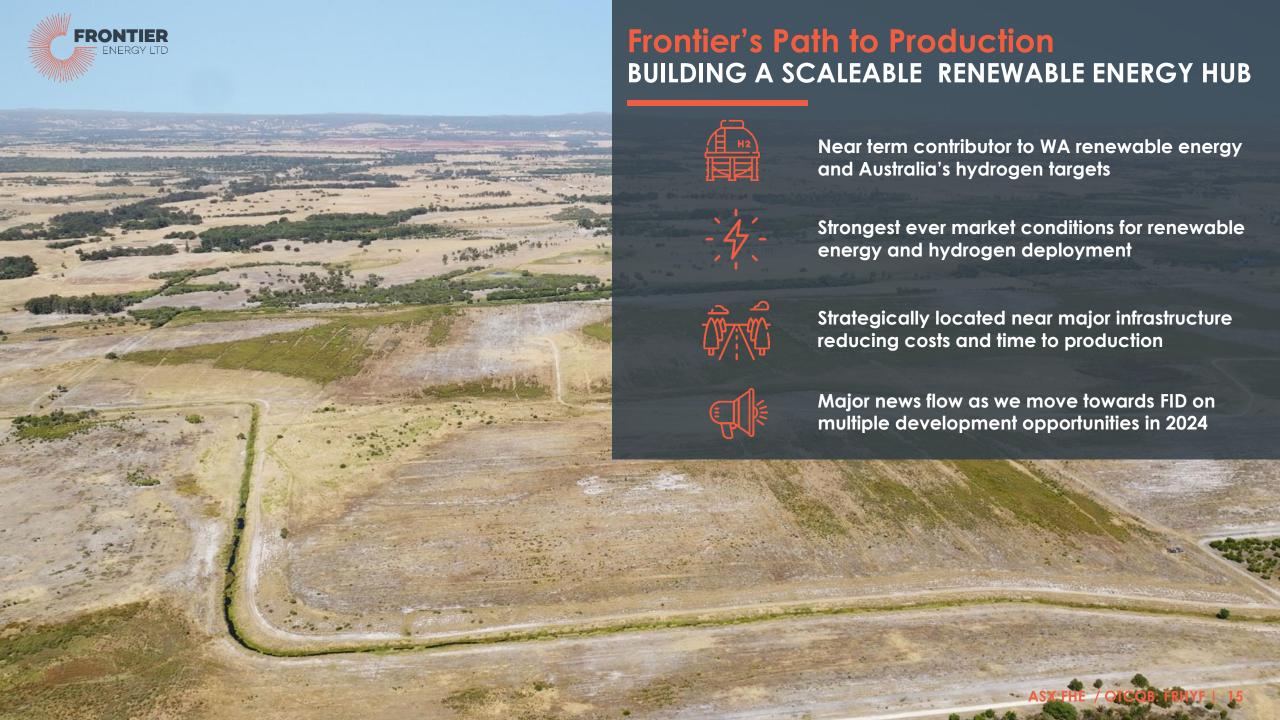
At Frontier, we care for our community, environment, and all stakeholders, by delivering safe, reliable and sustainable clean energy solutions

Frontier is committed to creating long term sustainable value for future generations

- Our solar energy and green hydrogen project will provide a significant contribution to both the Federal and State decarbonisation strategy
- We delivered our inaugural Sustainability Report in Q2 2023
- The Bristol Springs Project will create 300 jobs during construction
 - Once construction commences the Company is targeting on-going future expansion
- No clearing of conservation significant flora is required for Stage 1 solar farm development
- We are focused on diversity and inclusion with 44% female representation in the leadership team¹

Leadership team includes Board and Executive Management (a total of nine people)







For more information contact

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OTCQB: FRHYF
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Appendix 1 – Share Plan to acquire Waroona Energy Inc¹





Frontier Energy (FHE.ASX) signed of a Letter of Intent with Waroona Energy Inc. (TSXV: WHE) (Waroona), to acquire all Waroona shares (the Transaction) not currently held by Frontier (Frontier already holds 20% of Waroona) via a Canadian Plan of Arrangement (Share Plan).

The Transaction aims to create a large-scale Australian renewable energy company, with shovel-ready solar generation of 355MW and the potential to expand to more than 1GW, based on adjoining freehold land ownership and grid connections that have been secured by the two companies in South West WA.

Under the Share Plan. Waroona shareholders will receive 1 new Frontier Share for every 4.27 Waroona Shares held on the Share Plan record date.

Indicative timetable and key dates

Stage	Timing
Conduct due diligence and sign definitive agreement	October 2023
Waroona to finalise proxy circular	October 2023
Obtain interim court approval	October 2023
Mail proxy circular	November 2023
Shareholder meeting	December 2023
Second Court Hearing to approve Share Plan	December 2023
Implementation Date	December 2023

Indicative capital structure post transaction

Share Structure	Shares on issue (m)
Current shares on issue	298.9m
Shares to be issued to Waroona shareholders	145.7m
Total shares on issue post transaction	444.7m
Indicative Market capitalisation (at \$0.38/share)	\$170m
Options	56.9m
Performance shares	25.5m
Cash Position	
Cash Balance – Frontier (June 2023)	\$8.8m
Cash balance – Waroona (June 2023)	\$13.2m