Clean energy to help fill Western Australia's growing supply gap



ASX: FHE OTCQB: FRHYF February 2024

Artist impression of solar facility



Disclaimer

FORWARD LOOKING STATEMENT

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from those expressed or implied by such forward-looking information, including risks associated with investments in private and publicly listed companies such as Frontier Energy Limited (Frontier or Company); risks associated with general economic conditions; the risk that further funding may be required but unavailable for the ongoing development of the Company's projects or future acquisitions; changes in government regulations, policies or legislation; unforeseen expenses; fluctuations in commodity prices; fluctuation in exchange rates; litigation risk; the inherent risks and dangers of development operations in general; risk of continued negative operating cashflow; the possibility that required permits may not be obtained; environmental risks; general risks associated with the feasibility and development of the Company's Bristol Spring Project (Project); changes in laws or regulations; future actions by government; breach of any of the contracts through which the Company holds property rights; defects in or challenges to the Company's projects; uninsured hazards; disruptions to the Company's supplies or service providers; reliance on key personnel, retention of key employees and the impact of the COVID-19 pandemic on the Company's business and operations.

Forward-looking information is based on the reasonable assumptions, estimates, analysis and opinions of management of the Company made in light of their experience and their perception of trends, current conditions and expected developments, as well as other factors that management believes to be relevant and reasonable in the circumstances at the date that such statements are made, but which may prove to be incorrect. The Company believes that the assumptions and expectations reflected in such forward-looking information are reasonable.

Assumptions have been made regarding, among other things: the energy market, the Company's peers, the Company's ability to carry on its future development works, construction and production activities, the timely receipt of required approvals, the price of electricity, the ability of the Company to operate in a safe, efficient and effective manner and the ability of the Company to obtain financing as and when required and on reasonable terms. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used.

Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause the Company's results not to be as anticipated, estimated or intended. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information. The Company does not undertake to update any forward-looking information, except in accordance with applicable securities laws.

NO LIABILITY/SUMMARY INFORMATION

Frontier has prepared this presentation material (Presentation) based on information available to it at the time of preparation. No representation or warranty, express or implied, is made as to the fairness, accuracy or completeness of the information, opinions and conclusions contained in the Presentation. To the maximum extent permitted by law, the Company, its related bodies corporate (as that term is defined in the Corporations Act 2001 (Commonwealth of Australia)) and the officers, directors, employees, advisers and agents of those entities do not accept any responsibility or liability including, without limitation, any liability arising from fault or negligence on the part of any person, for any loss arising from the use of the Presentation or its contents or otherwise arising in connection with it.

ACKNOWLEDGEMENT OF COUNTRY

Frontier Energy acknowledges the traditional custodians throughout Australia and their continuing connection to the land, waters and community. We pay our respects to all members of the Aboriginal communities and their cultures; and to Elders both past and present.

Poised to become one of Australia's largest standalone renewable energy projects

Waroona Renewable Energy Project snapshot

Location

- 120km south of Perth near Waroona, WA
- Close to existing infrastructure essential for renewables, including grid terminal, and skilled workforce in nearby communities

Grid

- Frontier has two grid connections (one approved ETAC and one ETAC in progress) future capacity potential of +1GW
- Located on the largest transmission line in WA (330kV) unconstrained and surrounded by major industrial consumers

Approvals

Majority of permits and approvals in place

Site

- 868ha of freehold land 100% controlled (no native title)
 - Previously used for agriculture, largely cleared

Production strategy and growth opportunities

- Stage One 120MW solar/80MW Battery DFS February 2024
 - Ability to accelerate future expansion opportunities



Perfectly positioned for the renewable energy transition

BUILDING A SCALEABLE RENEWABLE ENERGY HUB



Stage One - 120MW Solar / 80MW Battery – DFS Feb 2024



Strongest ever market conditions for renewable energy deployment

+1GW of energy potential & large

renewables hub (incl hydrogen)



Strong financial position Fully funded until FID



445m Shares on issue

\$134m At \$0.30/ share Market Cap





HNW 31%

Clean energy transition is driving energy prices higher

Current status of the renewable energy transition

- The world is rapidly transitioning towards renewable energy solutions
- Australia and WA had ~35% of electricity generated by renewables in 2023¹, short of the 2030 target of 82%
- This transition is also seeing an increase in electricity consumption
 - AEMO forecasts WA's electricity demand will increase between 78% and 220% over the next decade

Transition is already seeing a significant increase in WA electricity prices

- Increasing month-to-month price volatility
 - Correlated with relatively minor changes to supply drastically affect pricing



Monthly WA Wholesale Electricity Price^{2,3}

1- source: https://opennem.org.au/energy

Frontier's strategic advantages overcome key challenges in the clean energy transition



Frontier's key advantage - grid connections at a central node

Frontier's high quality, unconstrained connection onto the SWIS enables uncurtailed renewable energy sales

- The SWIS is the major electricity network in WA
 - Peak operating demand 4GW (NEM 30GW)
- WA Government plans to expand the grid, however most upgrades will not occur until post 2030
 - Excluding approvals, permitting and development etc which can take a further +6 yrs

Frontier can access two grid connections on the largest line (330kV) – unconstrained and surrounded by major industrial consumers

• An independent report¹ highlighted that before 2030, only Landwehr Terminal (Project location) can accommodate new large-scale renewable generation of 250MW or greater

AEMO's 2023 ESOO report² forecasts a decade of deficits

- Major capacity deficit forecast: > 1.0GW by 2027 & 4.0GW by 2032
- AEMO forecasts demand increase of 78% to 220% over 10 years

How will the gap be filled?

- Reliance on Batteries, to be charged with excess PV solar
- New utility scale renewable generation falls significantly short of replacing Collie

1 - ASX - 2 November 2023; 2 - https://aemo.com.au/-/media/files/electricity/wem/planning_and_forecasting/esoo



Adding a battery enables revenue uplift through arbitrage

Opportunity to increase received electricity price, while minimising risk of curtailment

Electricity price follows supply and demand

- WA has the most sunlight hours in the country and one of the highest installation rates of rooftop solar (PV) at 38%¹
 - Expected to increase to ~ 50% by 2030
- Price dips during the day, when solar generation peaks
- In the afternoon / evening, demand increases while solar generation declines, causing price to rise sharply

Battery allows for revenue uplift and reduces curtailment risk

- The integration of a battery allows electricity sales to be 'shifted'- i.e. electricity is stored in low price periods and sold in high price periods
- 80MW battery sized to enable substantial shift of electricity sales
 - Solar energy sales early morning shoulder period
 - Battery charge morning to midday
 - Battery discharge combined with solar sales early evening (during peak electricity demand)

Electricity revenue uplift example - January 2023



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

Renewable energy solutions for Western Australia

ASX:FHE / OTCQB: FRHYF | 8

WA's Reserve Capacity underpins battery development

Unique to WA and a major driver in development strategy

Reserve Capacity Mechanism (RCM)

- RCM is unique to WA, not available in the Eastern States / NEM
- Under the RCM, generators receive annual payments per MW, based on a benchmark reserve capacity price (BRCP) determined by the Regulator
 - New generators can lock in the BRCP for five years
- BRCPs have increased strongly over the last five years
 - When the market is in deficit, an additional 30% is paid
 - AMEO forecasts deficits for the next decade

Battery the new reference technology

2 - https://www.wa.gov.au/media/43698/download?inline

- In Dec 2023², the WA Government selected a 4-hour battery with a 330kV connection as the future benchmark technology
 - This means a 4-hour battery at Waroona may qualify for 100% of the BRCP
- Potential to extend lock in period from 5 years to 10 years
 - Provides a fixed guaranteed income

Benchmark Reserve Capacity Payment¹



1 - https://www.erawa.com.au/cproot/23833/2/2024-benchmark-reserve-capacity-price-for-the-202627-capacity-year.PDF

Frontier's Path to Production

BUILDING A SCALEABLE RENEWABLE ENERGY HUB



Strongest ever market conditions for renewable energy and hydrogen deployment



Growth potential of +1GW of renewable energy in an unconstrained section of the grid

Major news flow as we progress multiple development opportunities throughout 2024

Milestone	1Q24	2Q24	3Q24	4Q24	2025	2026	2027	and the second s
DFS		and - agent				The second s		The second s
Financing								
FID	the second				and the second sec	and the second sec		
Project Development		in increa						
First Production					No.			
Assess Stage Two Development								
Assess Additional Opportunities								



For more information contact

Adam Kiley CEO +61 8 9200 3428 akiley@frontierhe.com

ASX: FHE OTCQB: FRHYF frontierhe.com



Appendix 1 – Renewable and battery projects for the SWIS

WA renewable energy projects with announced development plans¹ – 476MW new generation capacity so far announced, while 1,200MW to be closed by 2029. 1,335MW battery storage is planned to firm up renewables

Project	Forecast production	Size	Owner
Wind			
Flat Rocks Wind Farm Stage 1	FY2024	76MW	Enel
Flat Rocks Wind Farm Stage 2	FY2026	~100MW	Water Corp
King Rocks Wind Farm	FY2026	~150MW	Synergy
Total wind		256MW	
Battery			
Neoen Battery Stage 1	FY2025	200MW/800MWh	Neoen
Collie Big Battery	FY2026	500MW/2000MWh	Synergy
Kwinana Big Battery Stage 2	FY2025	200MW/800MWh	Synergy
Neoen Muchea BESS		200MW/400MWh	Neoen
Alinta Wagerup BESS2	FY2025	100MW/200MWh	Alinta
Total Battery		1,200MW/4,800	
Mixed technology			
Cunderdin Solar Farm and BESS	FY2024	100MW - 55MW/220MWh	GPG (Naturgy)
Waroona - Stage 1 Solar Farm and BESS	FY2026	120MW - 80MW/320MW	Frontier
Mixed Total		220MW – 135/540MW	
Total New Energy Development projects by 2027		476MW (wind and solar) + 1,335/5,340 (battery)	
Collie Closure	2029	-1,200MW	
1 - https://aemo.com.au/-/media/files/electricity/wem/planning and forecasting/es	00/2023/		

Appendix 2 – WA electricity prices are rising

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 35% to \$89/MWh
- Solar period price² increased by 26% to \$72/MWh
- Afternoon peak energy price (4pm 9pm) increased 48% to \$143/MWh



Reserve Capacity (RCP)

- Unique to WA as generators are paid for electricity generation capacity
- Benchmark RCP is A\$230,000/MW³ for 2026/27
 - Can be locked in for 5 years, potentially 10
 - 1.3X multiple applies when forecast market deficit



Reserve Capacity Price - Actuals

Large Generation Certificates

- One LGC per MWh of eligible electricity generated (renewable energy)
- Current spot price ~\$46 per LGC
- LGC system expires in 2030
 - To be replaced by Guarantee of Origin certificates



1 – source: AEMO; negative prices have been limited to -\$45/MWh, positive cap \$738/MWh 2 – WEM price during half hours of solar radiation 3 - https://www.erawa.com.au/cproot/23833/2/2024-benchmark-reserve-capacity-price-for-the-202627-capacity-year.PDF 4 - https://www.demandmanager.com.au/certificate-prices/

Focus on renewable energy solutions that provides the best returns for shareholders

Appendix 3 - Stage One – 120MW Solar/80MW Battery

Superior and stable returns, increased funding optionality and lower development risk compared to alternatives. Frontier continues to assess opportunities, including in hydrogen, for future expansion

		-47+	
	Solar (only)	Solar/BESS	Hydrogen
Market (price) Risk	High • Large rooftop solar (PV) penetration means risk of low solar price / curtailment • Limited reserve capacity (10% or ~\$4m)	Low • Reserve capacity – 100% (\$24m + \$4m) locked in • Battery provides opportunity to 'shift' energy generated at low price periods to peak periods • WA peak energy prices at all time highs	 High Hydrogen market still in its infancy Currently requires the development of our own offtake (e.g. a dual fuel peaking power plant)
Technical Risk	Low • Mature and well-established technology	 Low/medium Industry is rapidly maturing in WA High efficiency to store and release solar electricity (~85%) 	 High Largest electrolyser in Australia currently 10MW, whereas 'right size' for WREP would be ~72MW Relatively low efficiency to convert solar electricity to H₂ and back into usable energy
Funding Risk	High Lowest capital investment; however, Without a Power Purchase Agreement (PPA), debt leverage likely to be limited 	Low • Medium capital investment • High debt leverage potential due to substantial fixed Reserve Capacity Payments	 High Largest capital investment, as investment in own offtake (e.g. peaking power plant) is required Large Government support required to attract debt
Overall assessment / Comments	 Lowest capital and technical risk, however revenue not maximised due to low Reserve Capacity Payment and curtailment risk No PPA = minimal fixed returns, lowering fundability 	 Best economic returns and technical risk ~40- 50% fixed income (RCP) = increased leverage Arbitrage exposure to energy price upside DFS – February 2024 	 Future market with excellent potential however still in its infancy Existing infrastructure and Stage One development gives FHE major advantage to be first mover in the future