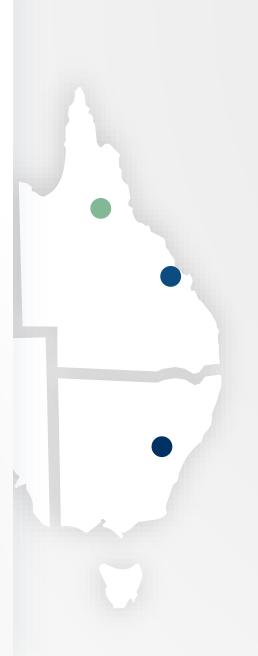


Diverse renewable energy base

Portfolio of renewable energy generation and storage projects

Revenue substantially underpinned by long-term contracts

- 100MW of operating assets
- 250MW in construction
- 470MW of pipeline assets



KIDSTON CLEAN ENERGY HUB



50MW Kidston Solar Project (Operating)



250MW Kidston Pumped Storage Hydro Project (Construction)



150MW Kidston Wind Project (Development)



Up to 270MW Kidston Stage Two Solar Project (Feasibility)

BOULDERCOMBE BATTERY PROJECT (BBP)



50MW Large-Scale Battery Energy Storage System (Development)

JEMALONG SOLAR PROJECT (JSP)



50MW Jemalong Solar Project (Operating)

Delivering a portfolio of renewable energy generation and storage projects

Renewable Energy Generation

Challenges of intermittent renewable energy:

- Oversupply of power in prime generation conditions (irradiation and wind)
- Leading to volatile pricing
- Decreasing system stability
- Solar not available in peak demand times



Energy Storage

The benefits of batteries:

- Stores energy for use in peak time
- Balances out the pricing dynamic
- Quick release of power when required
- Increase system stability



Genex Power

Genex's diverse portfolio of renewable energy generation and storage projects provides:

- Increased renewable energy availability to the grid
- The ability to optimise energy sales revenue
- Enables shareholder value accretion as the NEM transitions
- Maximise power prices received from energy sales



Renewable energy growth The need for storage



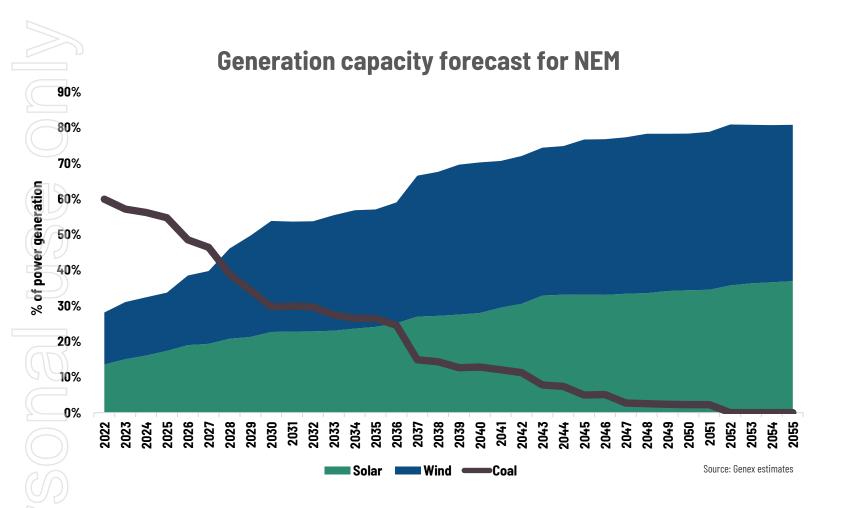
Renewable energy is expected to increase to 83% of NEM total power supply in 2055



Growing penetration of renewable generation underpins the business case for storage



Large-scale storage will maximise renewable energy availability (particularly solar)



Evolving energy market

- the need for storage



Growth of intermittent wind and solar creating volatility in the market



Need for low-cost, large-scale storage to facilitate high penetration of renewables and maintain reliability requirements



5 minute settlement from 1 October likely to increase price volatility



Large-scale batteries can respond to the market in under a second



Genex is addressing the need for energy storage via:



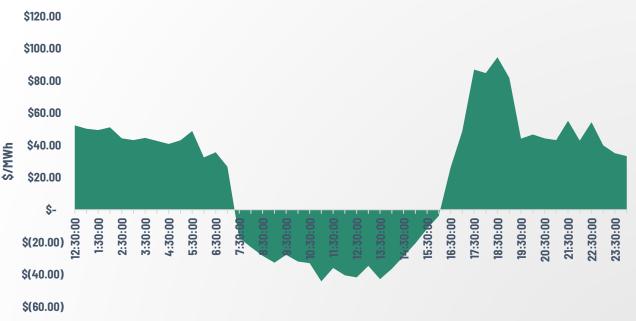
250MW Kidston Pumped Storage Hydro Project; and



50MW Bouldercombe Battery Project.

Paid to Charge / Paid to Discharge **QLD Retail Electricity Price**

Queensland Electricity Prices - 11 September 2021



Source: AEMO

The benefits of large-scale storage



Allows for further deployment of intermittent generation (wind & solar)



Ability to provide much needed system strength services



Batteries can take advantage of low spot prices and excess renewable energy supply when charging



Batteries can store low cost renewable energy to support peak demand events



Rapid construction and deployment flexibility



Significant technology advancement and decreasing capital costs



Batteries can provide premium peaking service to meet high periods of demand



Advanced technology – ability to react to market signals in milliseconds

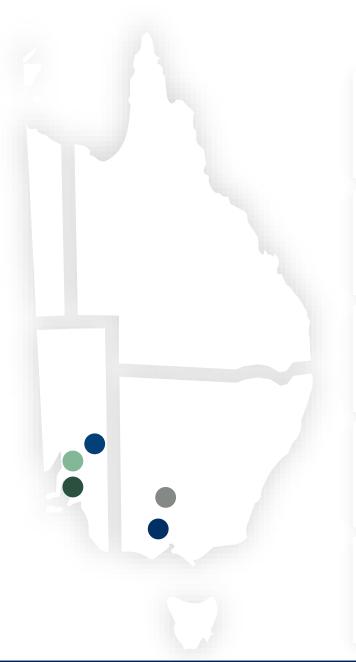
Australian's operational large-scale battery landscape

Batteries have the ability to operate in all 9 markets (energy market + 8 FCAS markets)

Currently no large-scale batteries generating in the Queensland market

Genex set to leverage the strong arbitrage business case due to growing solar generation in the electricity market

BESS have the capability to address system security issues caused by rapid deployment of intermittent generation



Site: Hornsdale (2017)
Supplier: Tesla

Capacity: 100MW/129MWh

Site: Ballarat (2018)
Supplier: Fluence

Capacity: 52MW/25MWh

Site: Lake Bonney (2018)
Supplier: Tesla

Capacity: 52MW/25MWh

Site: Gannawarra (2018)

Supplier: Tesla

Capacity: 30MW/30MWh

Site: Dalrymple (2018)
Supplier: ABB & Samsung
Capacity: 8MW/30MWh

Australia's battery growth

There is a requirement for significant BESS battery roll out along the east coast of Australia

Approximately 123GWh of capacity needed by 2040

The only operating BESS's in Australia are located in SA and VIC

Batteries inserted into renewable energy zones fill the gaps in dispatchable supply allowing renewable generation to be used more effectively

Current Operating BESS

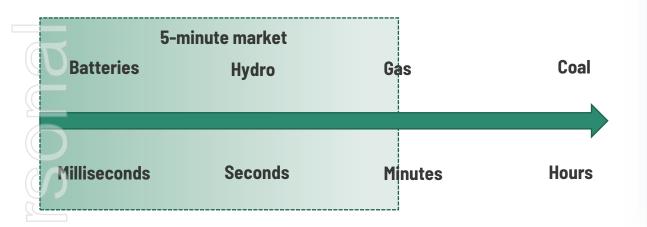


Required BESS by 2040



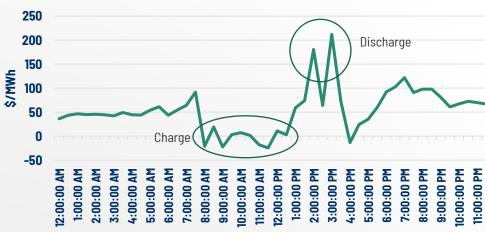
Large-scale batteries & 5-minute settlement

- The introduction of the 5 minute pricing market in the NEM rewards the rapid provision of power into the grid
- ✓ Historically pricing was on a 30 minute basis (average of 6 by 5 minute intervals)
- Recent change has distinct 5 minute pricing blocks
- The ability to rapidly enter (and withdraw) power will provide the power source with better ability to capture peak discharge prices (and take advantage of trough prices to recharge)
- Battery technology, with the ability to discharge power in millisecond and pumped hydro (seconds) are well positioned to benefit from the change in market dynamics



QLD Wholesale Electricity Price - September 2021





5 minute settlement impact on pricing (1MW/1MWh)

Time interval	Discharge price (\$/MWh) 1:00pm to 3.00pm	Charge price (\$/MWh) 8:00am to 12.00pm	Total Cycle Price (\$/MWh)
30min	196	-22	218
5min	263	-175	438

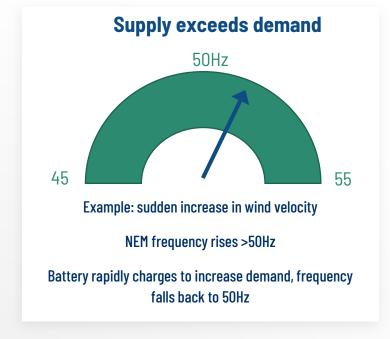
Notes to table: stylist representation of a charge and discharge cycle (energy only market)

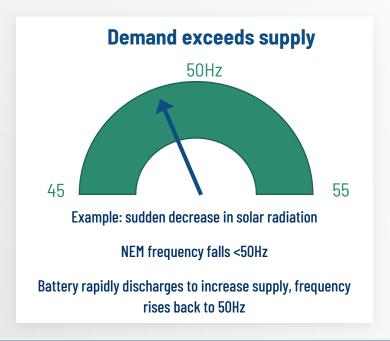
Large-scale batteries & the FCAS market

- Frequency Control Ancillary Services (FCAS) are a group of services that help maintain the NEM at a stable frequency of 50Hz
- ✓ Short term imbalances between supply and demand can cause frequency instability, which can ultimately lead to system failure and blackouts
- ✓ The intermittent nature of renewables increases potential instability
- ✓ Historically coal fired power stations provided FCAS given their size and considerable inertia
- Batteries are ideally suited to provide FCAS to the NEM given their ability to charge and discharge in milliseconds
- ✓ The NEM pays operators to provide FCAS services

Coal retirements will reduce the supply of FCAS

Intermittent renewables will increase the demand for FCAS

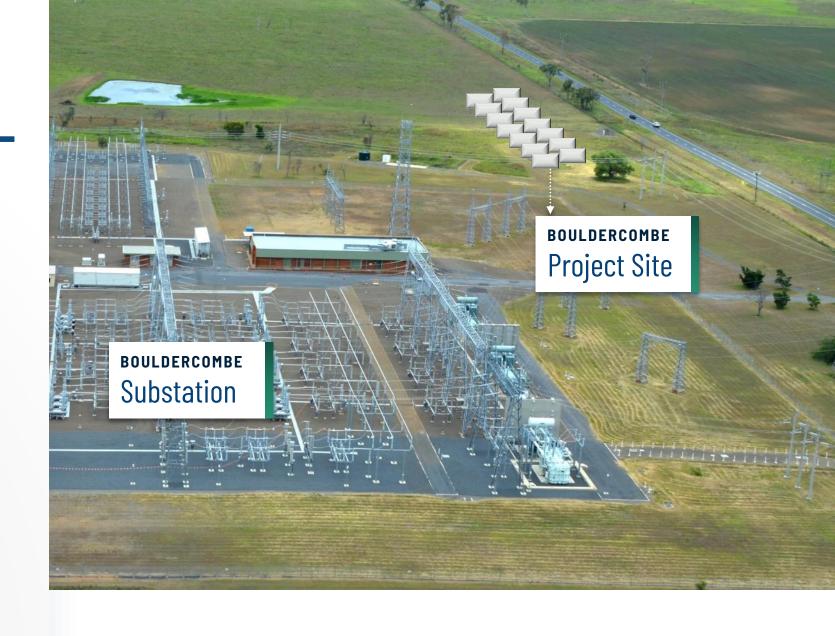




Bouldercombe Battery Project

50MW BESS located in Bouldercombe, Rockhampton in Queensland - adjacent to the Powerlink substation

- Genex's first battery project
- arrangement next to Powerlink's Bouldercombe substation
- ✓ Connection and Generator Performance Standard (GPS) process well advanced
- Funding discussions with potential lenders and strategic investor
- Tesla selected as the battery supplier and integrator
- ✓ Offtake arrangements well progressed



Tesla technology Megapack 2.0

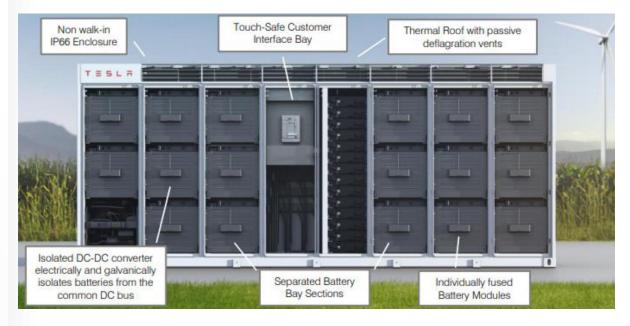
The Megapack is an all-in-one utility-scale energy storage system optimised for cost and performance

- All Megapack components pre-installed and tested within a single enclosure
- Battery architecture consists of battery modules and an integrated liquid cooling and heating system for thermal safety, enhanced performance and increased reliability

Each Megapack is shipped from Tesla's Gigafactory fully-assembled and factory tested.



TESL市

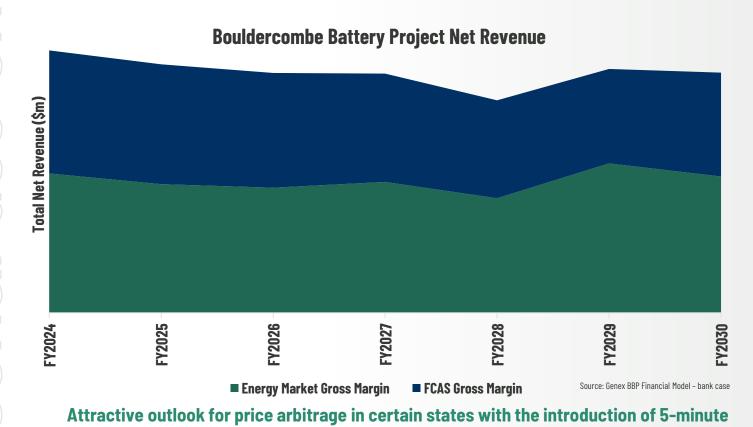


Above: inside the BBP Tesla Megapack 2.0

Genex | Green Energy, On Demand | Presentation 7 October 2021

Genex Power's battery financials

Genex's BESS will leverage energy market arbitrage and FCAS markets to deliver strong and predictable revenue streams



settlement in October 2021

7 October 2021

Initial Capex of \$\frac{\$}{\$55-\$60m^1\$ to develop the asset

Life of asset revenue to average over \$10m per annuum



Operating life expected to be greater than the 20 year warranty

Strong EBITDA
margin of >75%
expected from BBP

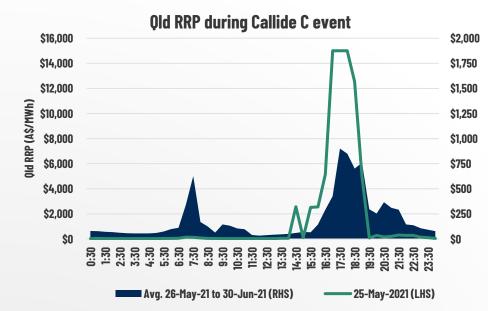


Minimal requirements for ongoing sustaining capital

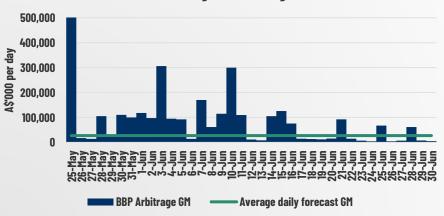
Large-scale batteries & contingency events – Callide C case study

- On 25 May 2021, Unit 4 (405MW) at the Callide C coal-fired power station suffered a turbine fire:
 - The remaining two units at Callide also tripped (the fourth was offline)
 - The transmission lines connecting Callide to the grid opened
 - Capacity at nearby power stations including Gladstone, Stanwell, Yarwun and Mackay was affected
 - The Queensland-NSW interconnector was disrupted
- The outage at Callide resulted in a 3,000MW shortfall
 - Nearly 500,000 homes and businesses in Queensland lost access to power
- Average RRP prices in Queensland escalated to \$15,000 for nearly 2 hours
- If BBP had been operational at the time, it would have made \$700k in gross margin on 25 May 2021 solely from arbitrage activities
 - Over the period to 30 June, as prices remained volatile, the BBP would have netted a total of \$3.2m from arbitrage gross margin alone, <u>averaging some 255% of forecast daily revenues</u>
 - Extreme contingency events such as Callide C are unpredictable, but likely to increase in frequency as coal plant ages and retires
- Importantly similar events are not factored into Genex's revenue forecasts for the BBP and therefore represent substantial upside to equity

Significant events can deliver substantial profitability for batteries



BBP Illustrative Arbitrage GM during Callide C event



Source: AEMO, Genex calculations

Energy storage roll out strategy

Expansion

50MW/2 hour

Genex will leverage its experience in storage gained from the development of the Kidston Pumped Storage Hydro Project to achieve it's target of 2500MWh of storage by 2025

Leverage our Relationships and financing skill set

- ✓ Powerlink Queensland
- √ Tesla
- ✓ Queensland Government
- ✓ ARENA
- ✓ NAIF
- ✓ CEFC

2500MWh

Progress Future Growth

- ✓ BBP 50MW/2 hour BESS
- √ 250MW/8 hour Kidston Pumped Storage Hydro Project
- ✓ Additional 1-2 BESS
- √ Geographic diversification
- √ Strategic partnerships

Diversified revenue streams

- ✓ Energy offtake
- ✓ FCAS
- ✓ Energy
- ✓ Network services
- ✓ Firming

S X

2000MWh

250MW/8 hour

K2-Hydro

LOW RISK PROFILE

BBP

BESS



RAPID EXECUTION

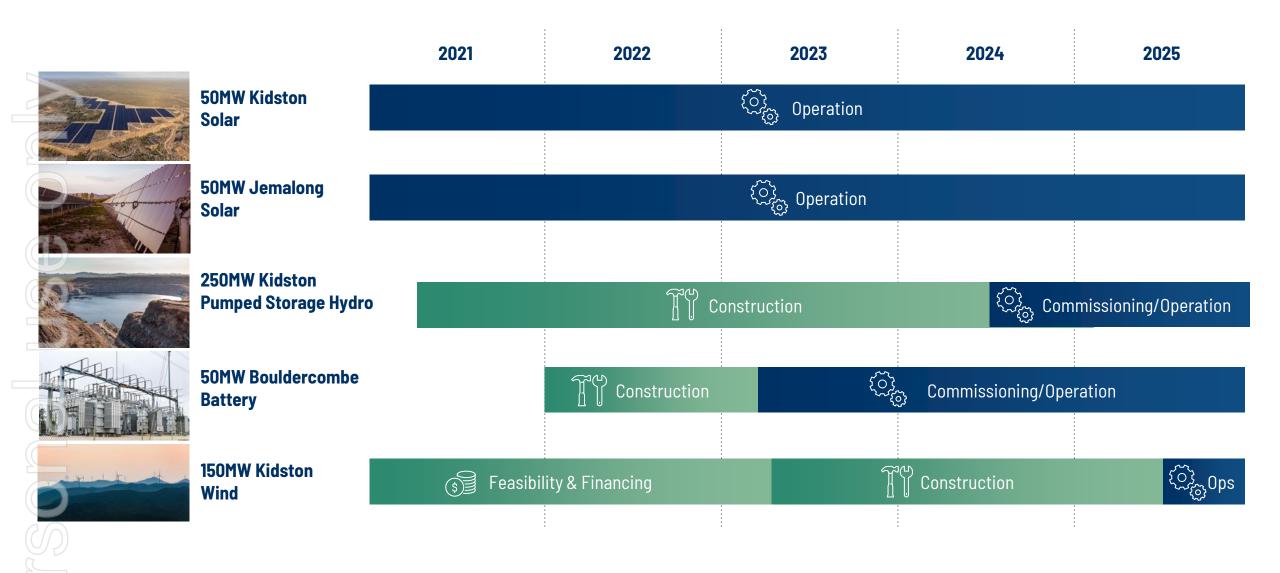


STRONG CASH GENERATION



HIGH RETURNING PROJECTS

Genex diversified renewable portfolio



Investment highlights

01

Diverse renewable energy and storage portfolio



- ✓ 2 operating 50MW solar projects (KS1 & JSP)
 - K2-Hydro funded and in construction
- Battery and wind projects in advanced stages

02

Proven track record of project execution



- ✓ Successfully developed >\$200m worth of projects
- Secured long term energy contracts providing secure cash flows
- Developed, financed and built KS1 and JSP on time and on budget

03

Strong relationships



✓ Tier 1 stakeholders















04

Revenue stream certainty



- 85% revenue contracted for 30 years
- ✓ >79% EBITDA margin
- Minimal sustaining capex
- Average annual revenue \$82.5m until 2055
- ✓ Utility like nature of cashflow and revenue stream

05

350MW of power generation and storage



- ✓ \$1 billion renewable energy & storage portfolio
- ✓ Average interest rate of 2.96% locked in via long term hedge

06

Near term development of pipeline opportunities



- ✓ 200MW of near term development opportunities
 - 50MW Bouldercombe Battery
 - construction 2022
 - 150MW Kidston Wind
 - construction 2023

Contact



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Email: sk@genexpower.com.au



James HardingChief Executive Officer

Tel: +612 9048 8855

Email: jh@genexpower.com.au



Corporate snapshot

ASX code: GNX Shares on issue: 1,069,900K Market cap (30.09.2021): \$251M Cash (30.06.21): \$45M¹

Board and Management



Dr. Ralph CravenNon-Executive Chairman



Michael AddisonNon-Executive Director



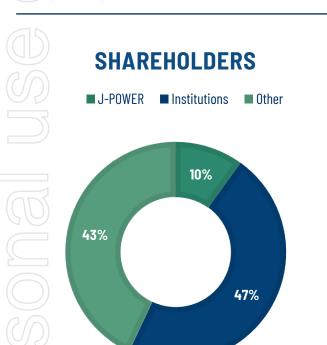
Teresa DysonNon-Executive Director



Yongqing YuNon-Executive Director



Kenichi SeshimoNon-Executive Director





Ben GuoNon-Executive Director

7 October 2021



Simon KidstonExecutive Director



James HardingChief Executive Officer



Craig FrancisChief Financial Officer



Arran McGhieChief Operations Officer

Our people, communities and the environment



People, Health and Safety

Continuation of COVID-19 protocols to ensure our people and communities remain safe

Commitment to managing risk and driving safety leadership through our organisation and ensuring our contractors implement best practice

Strong focus on diversity and indigenous engagement within our workforce



Environment

- Strict focus on minimising disturbance
- Commitment to conserving and protecting the environments we operate in
- K2-Hydro converting disturbed mine site to sustainable energy generation
- 2 million tonnes CO₂ abatement by 2025



Community

- Focus on job creation in our local communities
- At Jemalong, 151 jobs were created, 68% were local, 22% were women and 11% were Indigenous
- Indigenous Engagement Strategy to promote Indigenous employment and procurement for K2-Hydro
- 800 jobs created at Kidston and along the transmission route

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