



CORPORATE PRESENTATION

About Genex Power

▪ Renewable energy generation and energy storage

ASX code: GNX

Shares on issue: 303.9M

Market cap: \$86.6M

Cash (30.06.18): \$15M

Undrawn ARENA: \$6M

Favourable Tax Ruling: \$39.5M

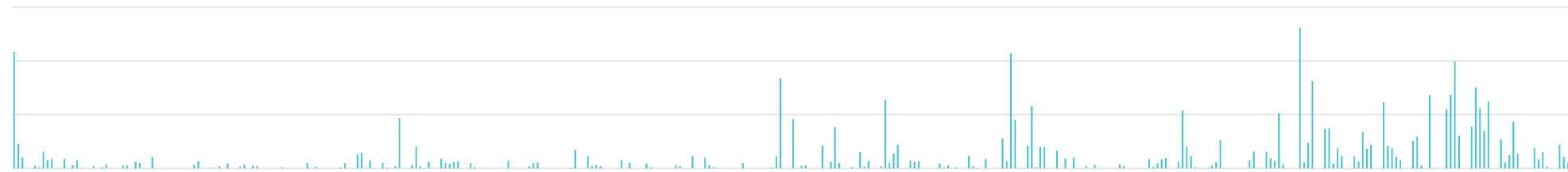
Major Shareholders: Board & Management – 17%
Zhefu Hydropower – 11.7%
Institutional – 21%
Other – 50.3%



GENEX POWER (GNX)

Corporate Performance

ASX: GNX (as of 03.09.18)



Volume

Corporate Portfolio



Corporate Portfolio

The Kidston Renewable Energy Hub:


- **STAGE 1: 50MW Kidston Solar Project (KS1)**
 - 20-Year Government Revenue Guarantee
 - Generating into the National Electricity Market
- **STAGE 2: 250MW Kidston Pumped Storage Hydro Project & 270MW Solar Project**
 - ‘Giant water battery’ integrated with solar
 - Can store & generate energy for up to 8 hours (2,000MWh)
- **STAGE 3: 150MW Kidston Wind Project**
 - Land option secured & feasibility commenced

The 50MW Jemalong Solar Project:

- Land secured, DA approved and connection underway
- Project finance underway in 2019



Corporate Portfolio

	KS1	K2H	K2S	JSP	K3W
Generation Type	Solar	Pumped Storage Hydro	Solar	Solar	Wind
Nameplate Capacity (MW)	50	250	270	50	150
Generation (MWh p.a.)	145,000	730,000	783,000	125,600	tbd
Construction	Complete	2019	2019	2019	2020
Revenue Contracts/Offtake	 Queensland Government	Pending	Pending	Merchant	tbd



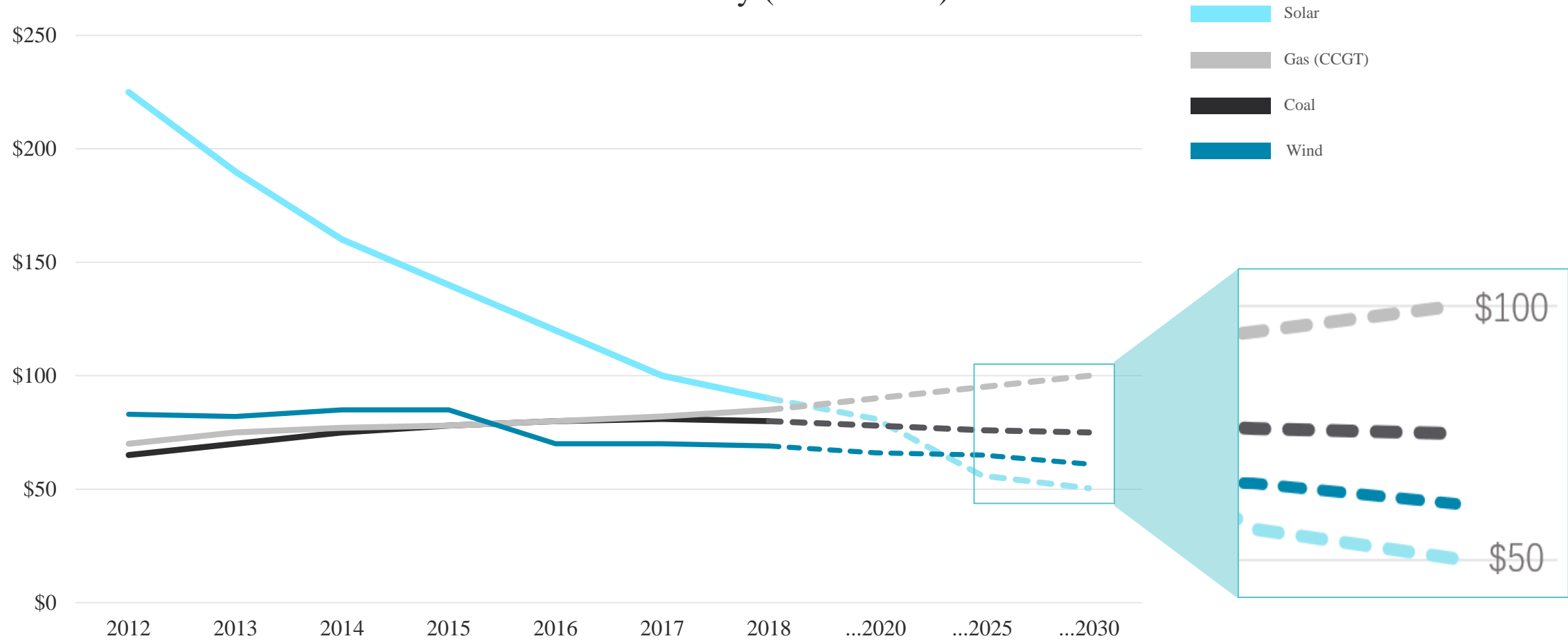
Market Transitions: Renewables & Storage

- Growth of intermittent wind & solar creating volatility in the market
- Need for low-cost, large-scale storage
- Pumped hydro storage is the most efficient and abundant form of energy storage available
- Adequate storage will allow high penetration of renewables & accomplishment of RETs/NEG

Market Transitions: Renewables



Levelised Cost of Electricity (AUD/MWh)



Source: Clean Energy Council 2016 Report and AI Group 2017

Pumped storage hydro locations



U.S.
22,600MW

Central & South America
1,000MW

Europe
46,000MW

Africa
1,500MW

Russia
1,200MW

India
4,800MW

China
32,000MW

South Korea
4,700MW

Japan
28,000MW

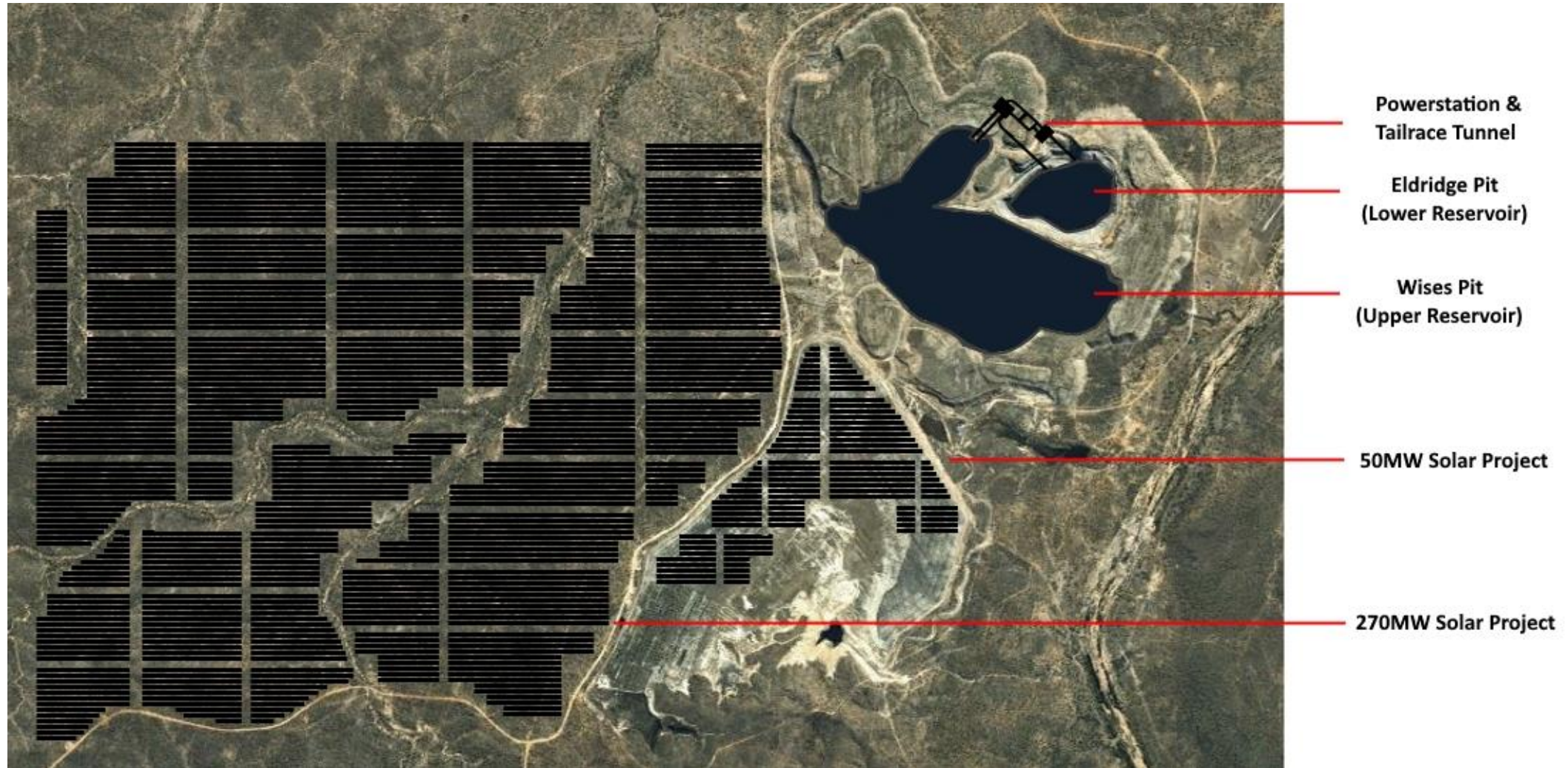
Kidston, QLD
250MW

Tumut-3, NSW
1,800MW

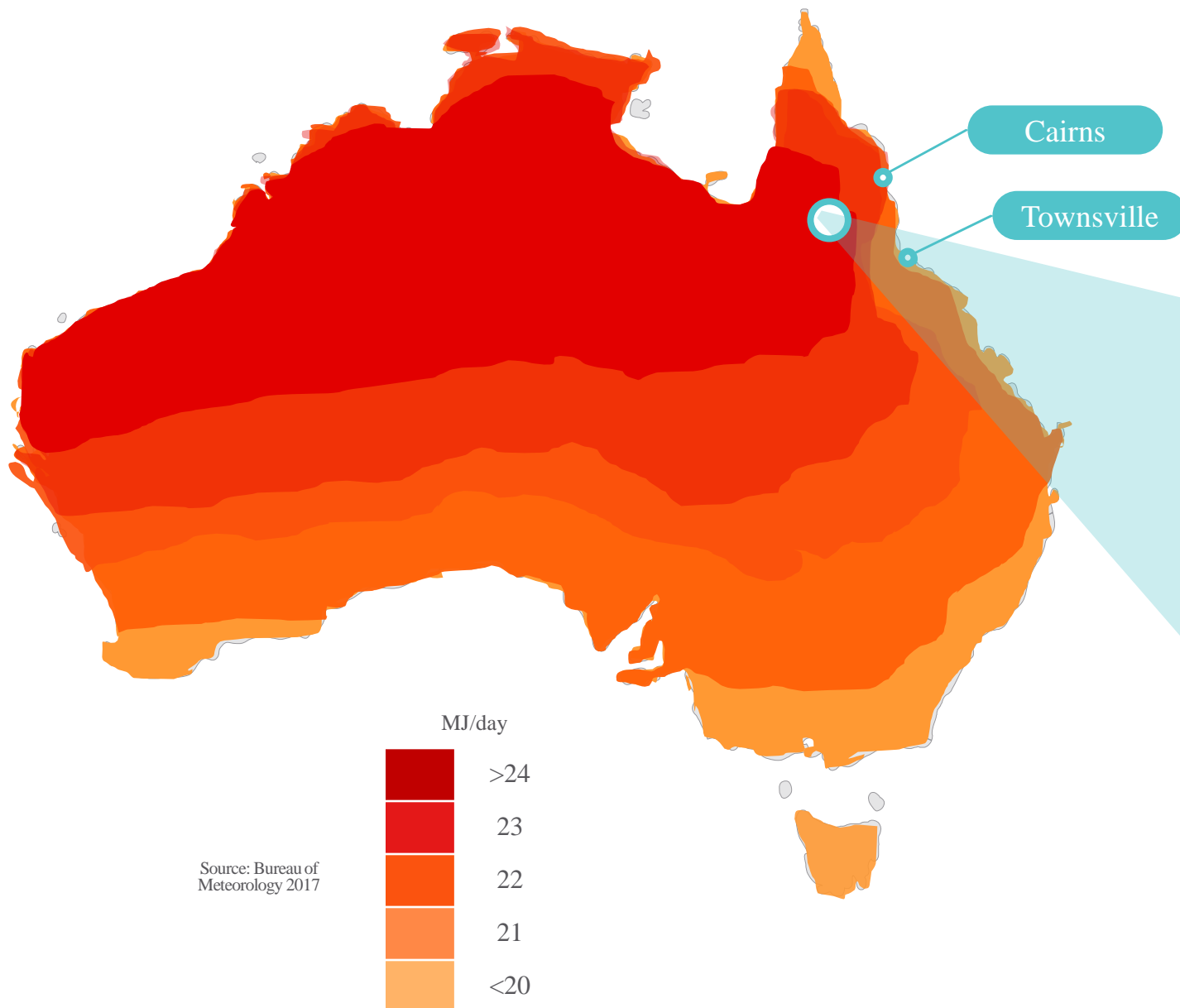
Wivenhoe, QLD
500MW

Shoalhaven, NSW
240MW

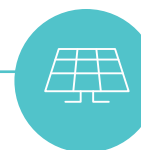
Kidston Renewable Energy Hub



Kidston: Locational Advantages

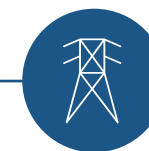


- Kidston, Far-North Queensland, Australia



Highest solar irradiance in Australia

Kidston Renewable Energy Hub



Existing infrastructure

- Two mining voids filled with water
- Water pipeline to Copperfield Dam
- Environmental permitting
- Accommodation, road access & airstrip
- 132kV transmission & substation



50MW Kidston Solar Project



50MW Kidston Solar Project

- Currently producing electricity into the National Electricity Market
- 20-year Revenue Support Deed with Queensland Government
- 145,000MWh per annum at full capacity (equivalent to 26,500 homes)
- 30-year project lifespan
- Use of first-tier suppliers & contractors to mitigate risk (UGL, AECOM, First Solar, NEXTracker, SMA)



50MW Kidston Solar Project

- 20-year Revenue Support Deed with Queensland State Government



Quarter Ending	Dec 2017	Mar 2018	Jun 2018
Generation (MWh)	3,126	22,077	32,083
Cumulative Generation (MWh)	3,126	25,203	57,286
Revenue (\$)	490,385	3,411,180	4,439,554
Cumulative Revenue (\$)	490,385	3,901,565	8,341,120

1. Unaudited financial information;
2. Revenue comprised of energy and LGC sales;
3. Queensland Government Revenue Support Deed commenced 31 July 2018 with LGC revenue reverting to the Govt. from that date;
4. All revenue during commissioning phase was derived from selling into the spot market.



250MW Kidston Pumped Storage Hydro Project



Pumped Storage Hydro

- Mature technology – in use for over 130 years, with > 200 projects worldwide
- Lowest cost of energy storage available
 - 250MW Kidston Project is ~15x more affordable than the cost of equivalent lithium-ion battery storage
- Peak power generator – able to dispatch into peak periods
- Can be integrated with renewables
 - Perfect component to counteract intermittent & volatile renewable generation
- 80+ year project lifespan





250MW Kidston Pumped Storage Hydro Project

- Feasibility complete, design optimised for up to 8 hours of peaking, dispatchable generation (2,000MWh)
- Utilising the two mining voids to significantly reduce capital expenditure
 - Mining voids are 52ha & 54ha
 - Substantial rehabilitation after mines closure in 2001
- Water license in place for external top-up if required
- Integrated with Kidston Solar 2 – solar generated will result in low-cost intra-day pumping

250MW Kidston Pumped Storage Hydro Project

- Strong government support
 - Designated 'Critical Infrastructure' by Queensland State Government
 - Up to \$9M in funding already provided by ARENA
- Tier 1 contractors appointed:
 - Feasibility completed by Entura
 - JV - McConnell Dowell & John Holland
 - Engineering consultant Mott MacDonald
 - International hydroelectric turbine supplier ANDRITZ
- Construction commencement anticipated for H1 2019





270MW Kidston Solar Project



270MW Kidston Solar Project

- Potentially phased development up to 270MW to match energy off-take and energy transfer capabilities
- Ability to integrate with Hydro Project
 - Produces low-cost solar power that can drive pumping cycle
- Co-financed and co-located with Hydro Project
- UGL selected as preferred EPC Contractor following success on Solar Stage One
- Development Approval by Council





150MW Kidston Wind Project



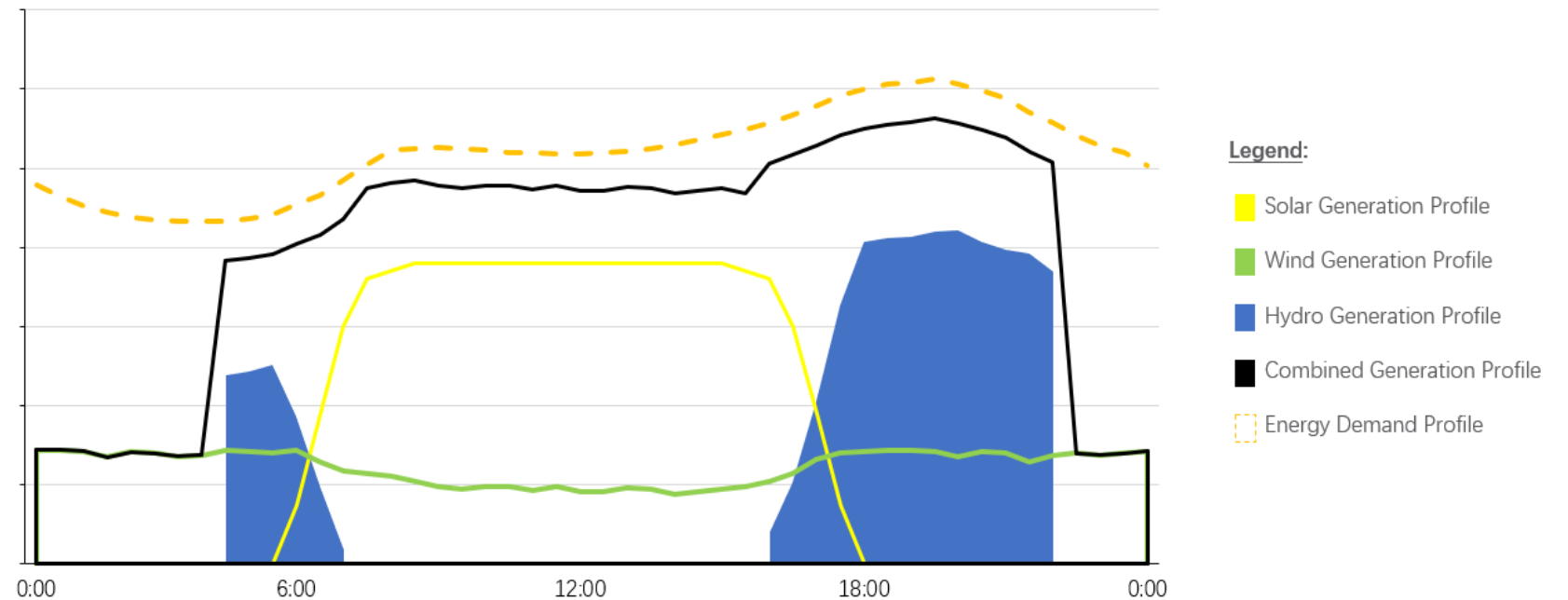


150MW Kidston Wind Project

- Stage 3 of the Kidston Renewable Energy Hub
- Globally unique integration of solar, wind and hydro
- Dispatchable renewable energy on demand 24/7
- Leverage existing infrastructure and co-location advantages
- Land option secured, feasibility studies commenced
- Project sizing of up to 150MW
- Pre-feasibility works indicate excellent wind resource, utilizing naturally elevated escarpment measuring ~21km in length

150MW Kidston Wind Project

- Wind generation profile inversely correlated with solar resource
- Integrated hydro generation compensates wind & solar intermittency
- Global first baseload renewable energy project



Government Support

- Queensland State Government:

- 20-Year Revenue Support Deed for 50MW Kidston Solar Project - ‘Solar 150 Program’ (2016)
- Designated the Kidston Renewable Energy Hub as ‘Critical Infrastructure’ to the State (2017)
- \$150M towards development of 275kV transmission line - ‘Powering North Queensland Plan’ (2017)



- Commonwealth Government:

- ARENA:

- \$4M in funding to assist feasibility studies for 250MW Kidston Pumped Hydro Storage Project (2015)
- \$8.9M in funding for 50MW Kidston Solar Project (2016)
- Up to \$5M in funding for Kidston Stage Two Projects (2017)



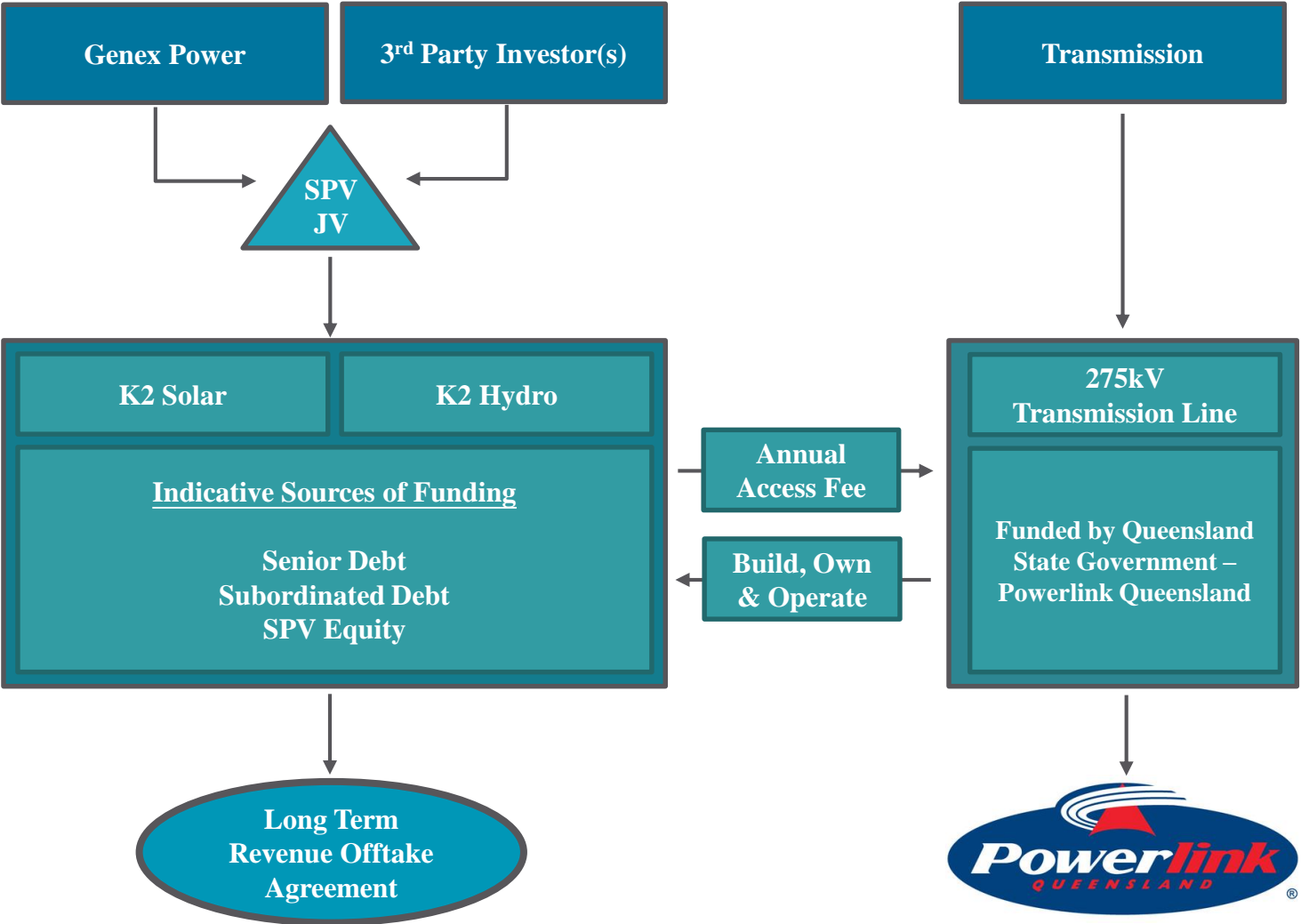
- CEFC: debt financing for 50MW Kidston Solar Project (2017)



- NAIF: Conditional approval for concessional debt financing for Kidston Stage Two Projects up to \$516M



Stage Two: Funding Structure



- Following successful Stage One funding strategy for Stage Two:
 - I. Long-term contracted revenue
 - II. Concessional NAIF funding
 - III. Bank funding/project finance
 - IV. Equity funding at project level



50MW Jemalong Solar Project

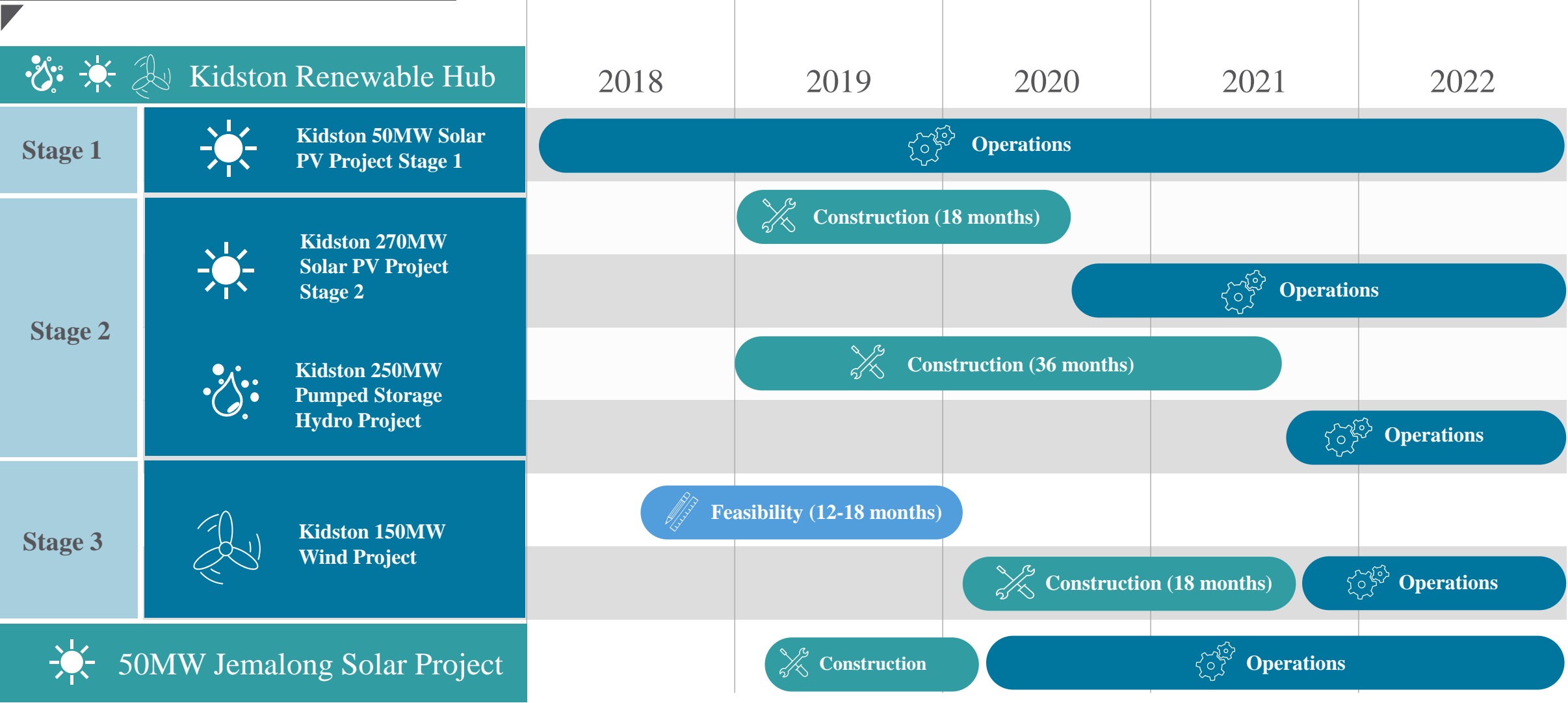




50MW Jemalong Solar Project

- Located 26km south-west of Forbes, NSW
- 125,600MWh per annum
- Status:
 - ✓ Land secured
 - ✓ Development Approval granted
 - ✓ Connection Application submitted
 - ✓ EPC contractor selection process underway

Corporate Timeline



*Includes the construction of a new 275kV transmission line

Board & Management



Dr. Ralph Craven (Chairman)

- Chairman of Stanwell Corporation
- Director of Senex and AusNet Services
- Former CEO and Chairman of Ergon Energy
- Former CEO of Transpower New Zealand



Michael Addison (Director)

- Founder of EndoCoal and Carabella
- Water Engineer with extensive finance experience



James Harding (Chief Executive Officer)

- 30 years experience in international project business.
- Former head of Business Development in Abengoa Solar Power Australia & General Manager of Renewables with IPS Australia and MAN Ferrostaal.



Simon Kidston (Executive Director)

- Founder of EndoCoal and Carabella
- Former banker with HSBC, Macquarie, Helmsec



Ben Guo (Finance Director)

- 10 years finance and accounting experience with PWC, E&Y, Helmsec and more recently with Carabella Resources



Alan du Mée (Non-Executive Director)

- Former CEO of Tarong Energy
- Former Chairman of the Australian National Generators Forum



Teresa Dyson (Non-Executive Director)

- Director of Energy Queensland, Seven West Media & Energy Super, Power & Water Corporation
- Former Partner of Ashurst & Deloitte
- Member of FIRB and Takeovers Panel



Yongqing Yu (Non-Executive Director)

- Engineering background with extensive global hydro experience
- Vice Chairman of Zhefu



Arran McGhie (Chief Operations Officer)

- 20 years experience in senior project management roles for underground excavation and civil construction projects
- Management roles with Lend Lease, John Holland, CPB Contractors and Thiess



Craig Francis (General Manager - Commercial Finance)

- Over 10 years investment banking and finance experience in Australia and the UK focusing on the energy and natural resources sectors



Justin Clyne (Company Secretary/Legal Counsel)

- 15 years experience in the legal sector
- 10 years experience as a corporate governance specialist
- Director and Secretary of a number of listed & unlisted public companies



Harrison Holihan (Senior Associate)

- Bachelor of Science (Psych) – University of Sydney
- Undergraduate Certificate – Oxford University
- Masters in Environmental Science – Harvard University (Active)

Summary

- ▣ **Strong and stable cash flows from 50MW Kidston Solar Project**
 - Cashflow positive
 - 20-year Revenue Support Deed with Queensland Government
- ▣ **Pipeline projects (50MW Jemalong Solar Project) to create near term revenue potential**
- ▣ **Upside from strategic 250MW Kidston Pumped Storage Hydro Project + 270MW Kidston Solar Project**
 - Commonwealth & State Government focus on energy storage and renewable energy
 - Most advanced energy storage and renewable project in Australia
 - Revenue contracting and project finance discussions underway
- ▣ **Positive Outlook**
 - Government focus on energy storage to mitigate rising electricity prices & intermittent renewables



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