



Genex Power

...The future of energy



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Investment Highlights

Company Overview

Focus:	Renewable energy & energy storage
Location:	North Queensland, Australia
ASX Code:	GNX
Shares on issue:	180,268,750
Market Cap:	\$27 million
Cash:	\$8.3 million
Undrawn ARENA:	\$2 million



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Investment Highlights

- Genex Power
 - Exposure to renewable energy sector
 - Leveraging existing infrastructure for low cost development
 - Positive macro outlook
 - Government support
- 50MW Solar Project
 - All permits and approvals received
 - Construction to commence Q4 2016
 - First cash flow Q4 2017
- 450 MW Pumped Storage Hydro
 - Advanced Feasibility stage
 - Strategic peak generator / energy storage

Major Shareholders

Board & Management	33%
Zhefu Hydropower	18%
Institutional	12%
Other	37%

Location



Site Location & NEM Network

Renewable Energy Hub



The Kidston Solar & Pumped Storage Hydro Design

Why was Genex established?

Growth of renewable energy generation

- Intermittent generation
- Excess generation during low demand
- Need for large-scale energy storage
- Pumped storage integration with renewable generation (i.e. Kidston Solar Project)
- Increasing gas prices in Queensland

Unique energy generation mix in Queensland

- Coal fired baseload
- Gas peaking
- Effect of rising gas prices on OCGT & CCGT
- Opportunity for low cost/low emission peaking generation

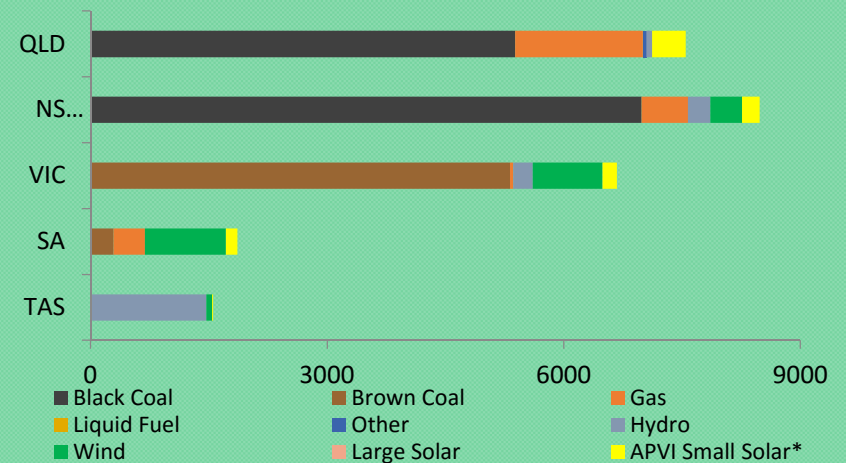


Royalla Solar Farm



Cathedral Rocks Wind Farm

Generation by Fuel Type (MW)



Kidston Solar PV - Near Term Cash Flow

- 50MW AC Solar Farm
- Located in North Queensland
- Highest solar resource in Australia connected to the NEM
- One of the lowest \$ per MWh solar projects in Australia
- Strong local community support
- Project approvals in place (Development & Environmental Approval)
- Targeting first generation 4Q 2017
- Co-located with large scale hydroelectric energy storage

Key Project Parameters

AC System Capacity	50 MW
DC System Capacity	67 MW
Annual Generation	>140,000 MWh
Capacity Factor (tracking)	>33%
MLF	1.05

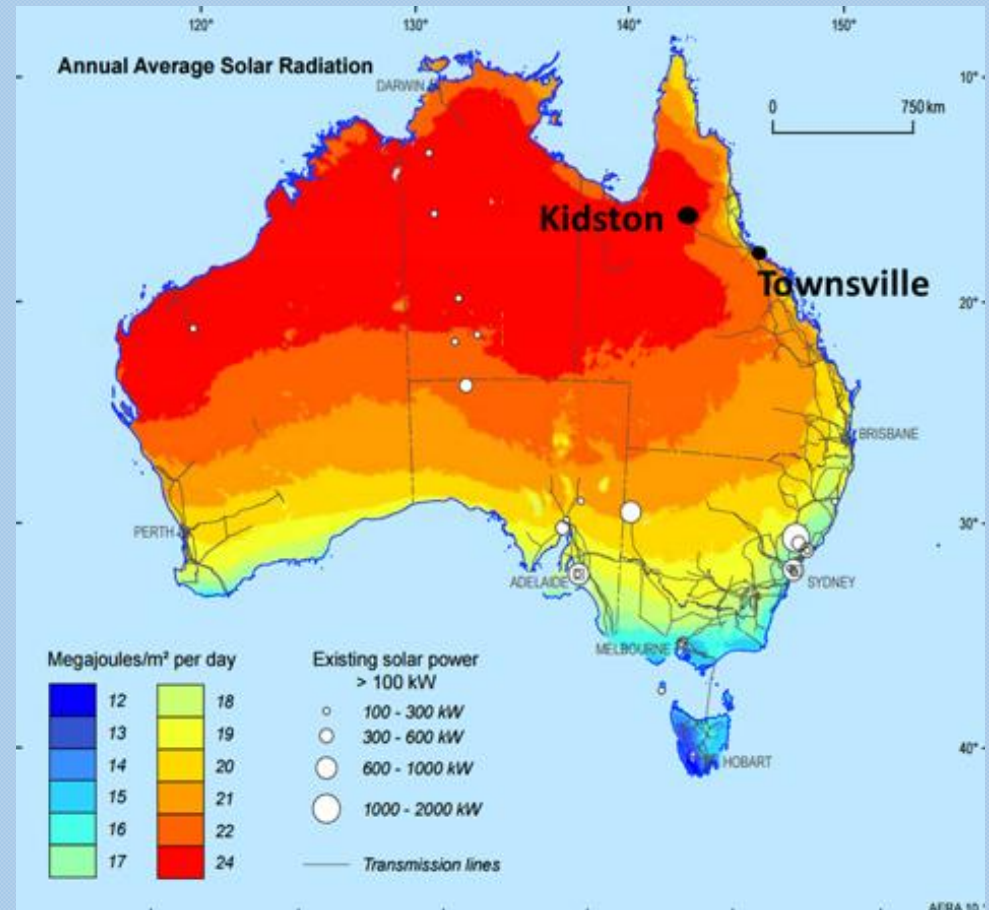
Project Status

- ✓ Development Approval
- ✓ Freehold land acquired
- ✓ Environmental Approval
- ✓ Feasibility Study completed
- ✓ Preferred EPC Contractor selected
- ✓ Grid Connection secured (25 years)



The Kidston Solar PV - Near Term Cash Flow

- Located at the old Kidston Gold Mine
- 300km north west of Townsville
- The site was selected for a number of reasons
 - ✓ One of the highest solar radiation areas in Australia
 - ✓ The only solar project located in the “red zone” which is also connected to the NEM
 - ✓ Consistent strong solar exposure throughout the year
 - ✓ Accessible by highway from Townsville and Cairns
 - ✓ Onsite accommodation camp suitable for construction needs
 - ✓ Good condition access road throughout the site
 - ✓ Co located with large scale hydroelectric energy storage project
- Existing substation and transmission line located adjacent to plant
- Remote community in need of development to drive economic growth
- No adverse impact on local community



Source: Bureau of Meteorology

The Kidston Solar PV - Project Advantages



The Kidston Solar Project

- Project will be constructed on the tailings storage facility (TSF) of the former Kidston Gold Mine
- TSF well suited for solar PV installation
 - Flat, dry and compacted surface
 - Sparse vegetation easily removed
 - Elevated 25m above natural ground level
 - Consistent ground conditions throughout TSF
- Geotechnical analysis indicates ground is amenable for PV installation
- Independent site analysis completed by EPC tenderers
- Good vehicle access with ramp and road way all around the site
- Minimal environmental issues
 - Solar farm will reduce existing leaching issues of the TSF
- No alternative land use
- Expansion potential over time - approvals in place for Solar Phase 2 (100MW)

The Kidston Solar PV - Grid Connection

- Connection to NEM via existing substation on site
- Substation connected to the main grid via existing 132kV transmission line
- Transmission line and substation owned by Ergon
- Minimal load currently on the line
- Connection agreement in place with Ergon



132kV transmission line to Townsville



Kidston substation

Australian Solar Project Comparison

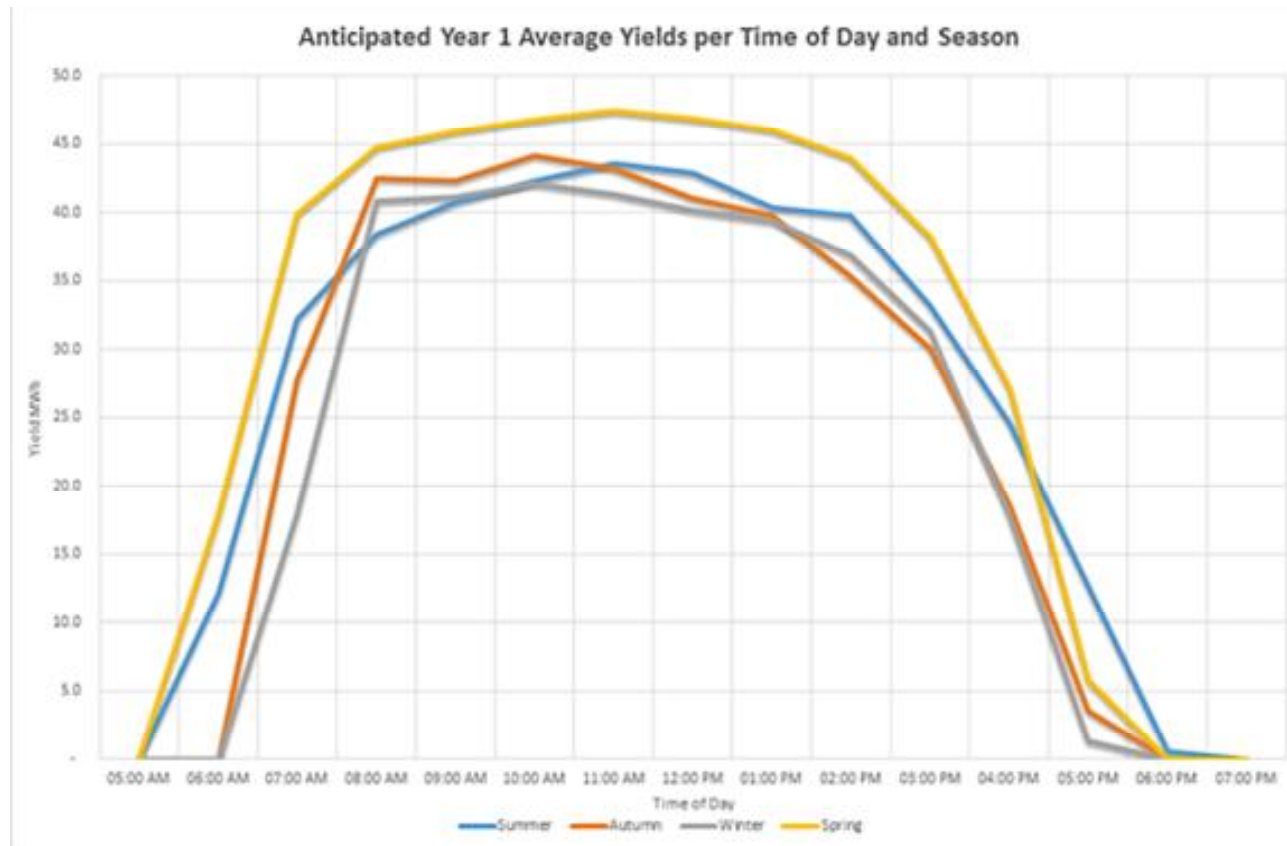
	Kidston	Royalla	Moree	Nyngan	Broken Hill	Barcaldine
MWac	50	24	56	102	53	25
Capacity Factor	>33%	18%	30%	26%	27%	30%
Annual Generation (MWh)	>140,000	37,000	146,180	233,000	126,000	53,500
CAPEX (A\$m)	TBC	\$155m	\$164m	\$290m	\$150m	\$69m
CAPEX/MWh	TBC	\$4,189	\$1,122	\$1,245	\$1,190	\$1,290
CAPEX/MWac	TBC	\$6.46	\$2.93	\$2.84	\$2.83	\$2.76
Racking	Tracking	Fixed	Tracking	Fixed	Fixed	Tracking
Household supplied	27,600	4,400	17,500	33,000	17,000	5,300

Source: Company websites, media articles



Solar monitoring station at Kidston

Attractive Solar Generation Profile



Experienced Solar Delivery Team

Company		Key Role(s)
	Genex (Solar) Pty Limited	Project Sponsor
	AECOM Australia Pty Ltd	Owner's Engineer and Technical Advisor
	UGL Engineering Pty Limited	EPC Contractor, Operations & Maintenance Contractor
	Coronium Pty Limited	Specialist Solar PV Consultant
	Ergon Energy Corporation Limited	Distribution Connection
	Societe Generale	Mandated Lead Arranger and Financial Advisor
	OST Energy	Lender's Independent Engineer for Due Diligence
	Baker & McKenzie	Project Legal Adviser
	Jardine Lloyd Thomson	Insurance Advisor
	PricewaterhouseCoopers Securities Limited	Tax Structuring Advisor

The Kidston Solar PV - Project Benefits

Financial Benefits

- Genex cash flow anticipated from 2017
- Long life project (over 25 years)
- High solar yield and low project costs
- Approvals in place to expand to 150MW over time
- Investment and jobs for far north Queensland
- Co location with large scale hydroelectric energy storage

Environmental Benefits

- > 140 GWh (140,000 MWh) of renewable electricity per year
- Equivalent to powering 27,600 homes
- Will offset 120,000 tonnes of CO² per year
- Equivalent to removing approximately 33,000 cars off Australian roads



The Kidston Pumped Storage - Flagship Project

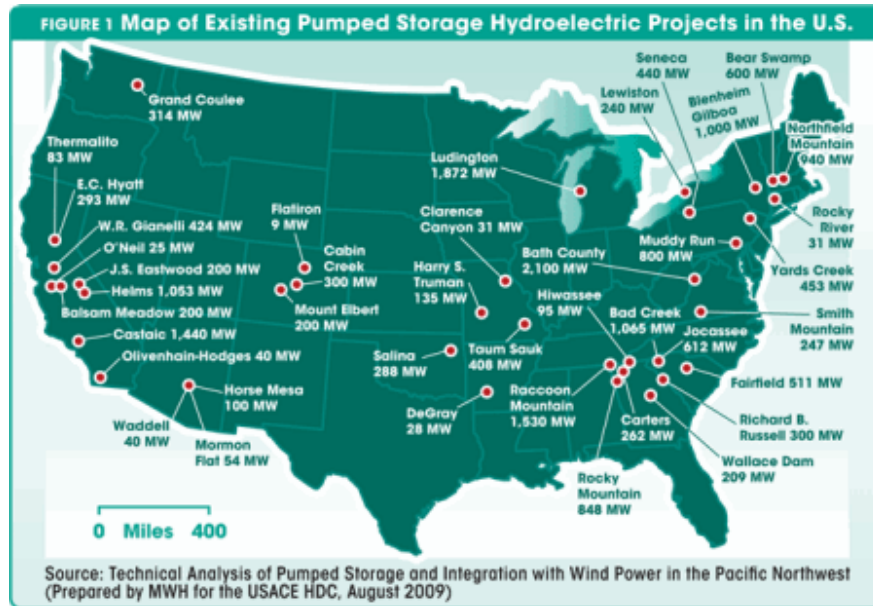
The Kidston Site

- Two large adjacent pits and elevated waste rock dump
 - 52ha and 54ha respectively
 - Lower Reservoir 270m deep
 - Approximately 400m apart at surface
 - 30m waste rock dump
- Site substantially rehabilitated since mine closure in 2001
- Water license in place for top up water
- Site 100% held by Genex Power
- Site covers 1,237ha
- Feasibility completion due Q3 2016



The Kidston Site

Kidston Pumped Storage Project



- Pumped Storage is an established technology since 1890s
- Hundreds of installed schemes around the world
- Three pumped storage schemes in Australia
 1. Tumut 3 – 1,500MW
 2. Wivenhoe – 500MW
 3. Shoalhaven – 240MW



Tumut 3, Snowy Hydro Scheme, NSW Australia



Wivenhoe PSP Scheme, Queensland Australia

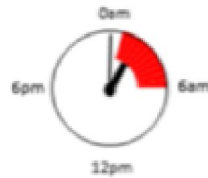


Shoalhaven Scheme, NSW Australia

Kidston Pumped Storage Project

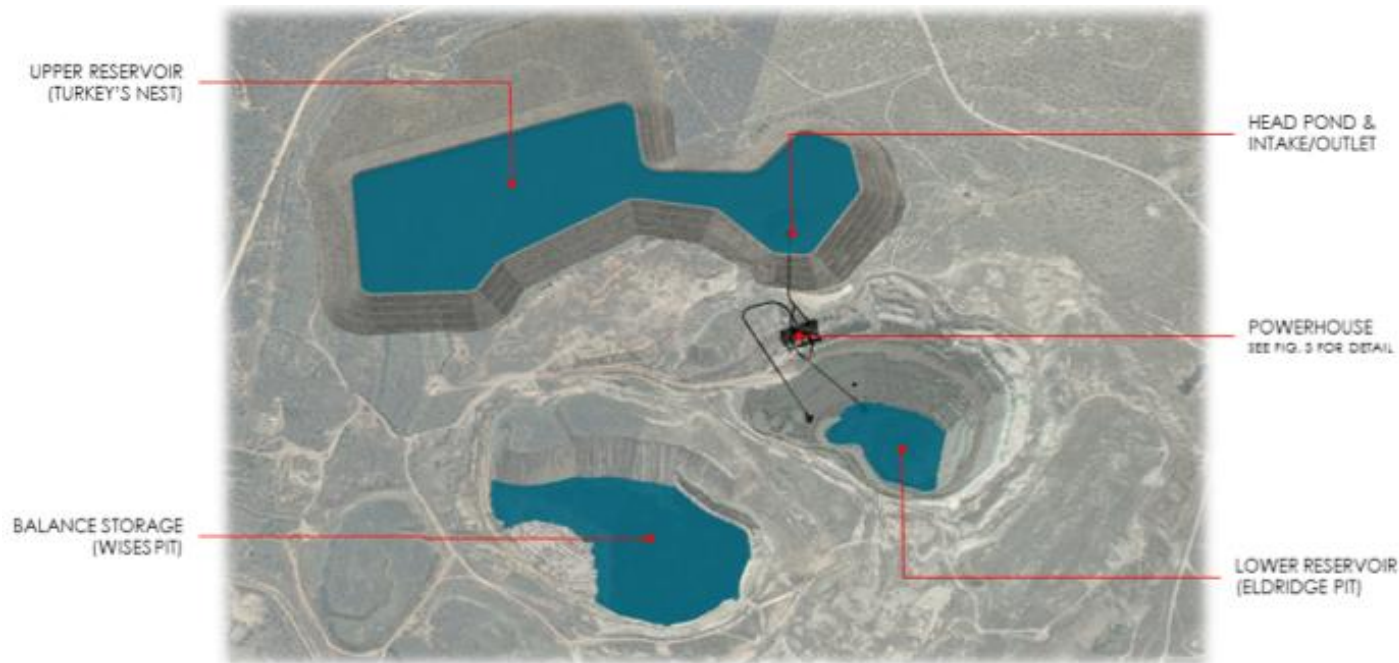
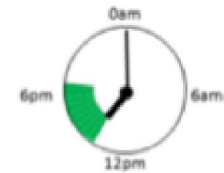
Pumping Mode

- During overnight Off-Peak
- Wholesale prices at their lowest
- Power is drawn from the grid to pump water up to the upper reservoir



Generating Mode

- During daily peaks
- Wholesale prices at their highest
- Water is released from upper reservoir to lower reservoir to generate electricity



Kidston Pumped Storage Project



Copperfield Dam



Kidston Site

Feasibility Study

- Design optimisation stage
- Focusing on capital efficiency per installed MW
- Optimised design uses waste rock dump and existing reservoirs
 - reduction in the water level variance during the generation
 - increase in the average water head
 - elimination of water seepage
 - enables the Wises Pit to be utilised for excess water storage and water balancing
- Ongoing support from Australian Renewable Energy Agency (ARENA) under the funding agreement
- Meaningful support from the Queensland State Government as a “Prescribed Project”
- Feasibility Study on track for completion Q3 2016

Key Metrics

- Nameplate capacity (up to) 450 MW
- Continuous generation 5 hours

Kidston Project

Fixed Assets

- ✓ Existing Reservoirs
- ✓ Onsite building materials and infrastructure
- ✓ Existing 132kV transmission line (for Kidston Solar Project and Pumped storage construction power supply)
- ✓ Ergon substation on site
- ✓ In-situ water in pit
- ✓ Access to Copperfield Dam (water top up)
- ✓ Genex owned water pipeline from Copperfield Dam

Licenses & Permits

- ✓ Ownership of freehold land over Kidston Mine Site
- ✓ Pastoral Lease extinguished
- ✓ Native Title extinguished
- ✓ Environmental Authority (EA) in place
- ✓ Water License in place with allocation of 4,650ML p.a.

Data & Information

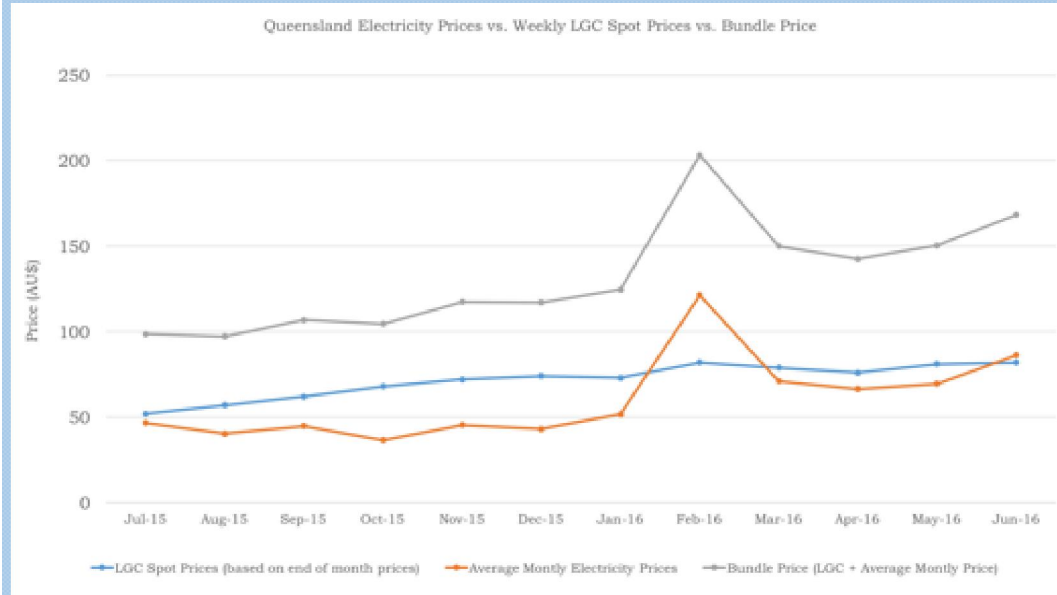
- ✓ Water Quality
- ✓ Rainfall/Runoff
- ✓ Geological/Historical Drilling
- ✓ Surveys and mapping
- ✓ Hydrology



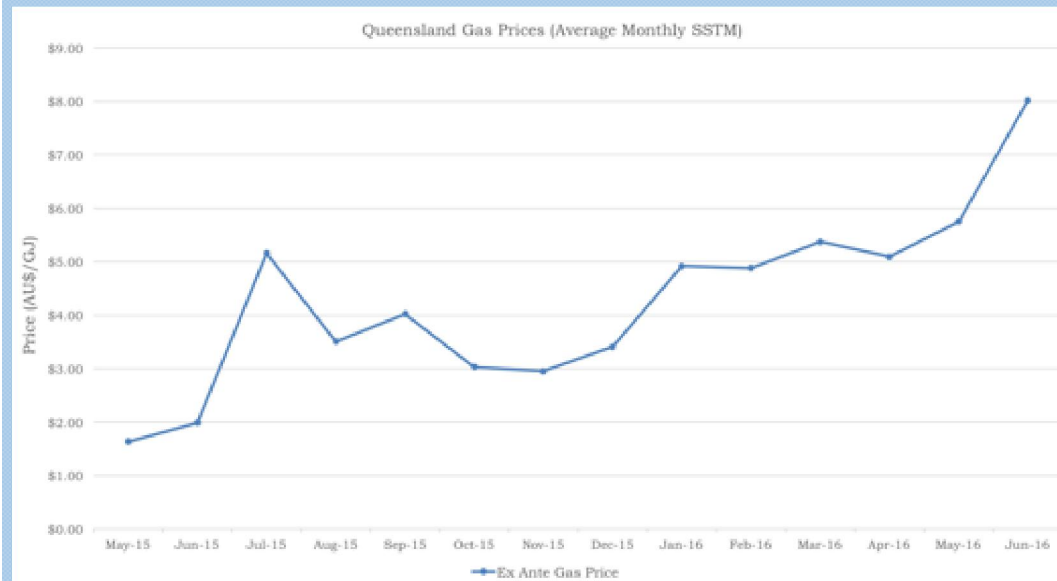
Kidston Site

Wholesale Electricity Prices

- Queensland has significantly higher peak prices and more volatility compared with other states in the NEM
- Pricing volatility due to generation mix and principal reliance on gas for peak and shoulder power generation (increasing gas prices due to Gladstone LNG exports)
- Queensland wholesale electricity prices expected to increase significantly over the next decade, driven by increasing generation fuel prices, increasing electricity demand and changing generation mix
- Peak and Off-Peak price differential expected to remain significant going forward
- LGC prices have increased significantly following the government decision on the Renewable Energy Target (RET) in 2015



Source: AEMO & Green Energy Markets as at 29/06/16



*The STTM price represents a delivered price of gas to the Hub. That is, it includes both the commodity & the cost of transportation to the hub.

Source: AEMO as at 29/06/16

Development Timeline

Calendar year	1Q 2016	2Q 2016	3Q 2016	4Q 2016	1Q 2017	2Q 2017	3Q 2017	4Q 2017
Solar Project								
<i>Feasibility</i>	✓							
<i>DA</i>	✓							
<i>Freehold Acquisition</i>	✓							
<i>EPC Contractor Evaluation</i>		✓						
<i>Connection Agreement</i>		✓						
<i>Project Financing</i>								
<i>Construction</i>								
<i>Commissioning</i>								
Pumped Storage Project								
<i>Feasibility Study</i>								
<i>Approvals</i>								
<i>Power Purchase Agreement</i>								
<i>Transmission Easement</i>								
<i>Network Connection</i>								
<i>Tender Design</i>								
<i>Financial Close</i>								
<i>Construction</i>								→

Board & Management



Dr Ralph Craven

Non Executive 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

Managing Director

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



Alan du Mée

Non Executive Director

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



Yongqing Yu

Non Executive Director

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



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



Arran McGhie

COO General Manager

- 20 years experience in senior project management roles for underground excavation and civil construction projects



James Harding

Executive General Manager

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



Justin Clyne

Company Secretary/ Legal Counsel

- Experienced lawyer & company secretary



Michael Addison
Managing Director

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