

Coopers Gap Wind Farm

Community Meeting

31 August 2017



Project Overview

Statistics



Key Project Information	
Generation Capacity	453 MW
Wind Turbines	91 x 3.63 MW 32 x 3.83 MW Total: 123
Estimated Capacity Factor	38%
Annual Power Generation	1,515,000 MWh
Rotor Diameter	GE3.6: 137 m GE3.8: 130 m
Blade Tip Height	Approx. 180m
Number of turbines with aviation hazard lighting	65

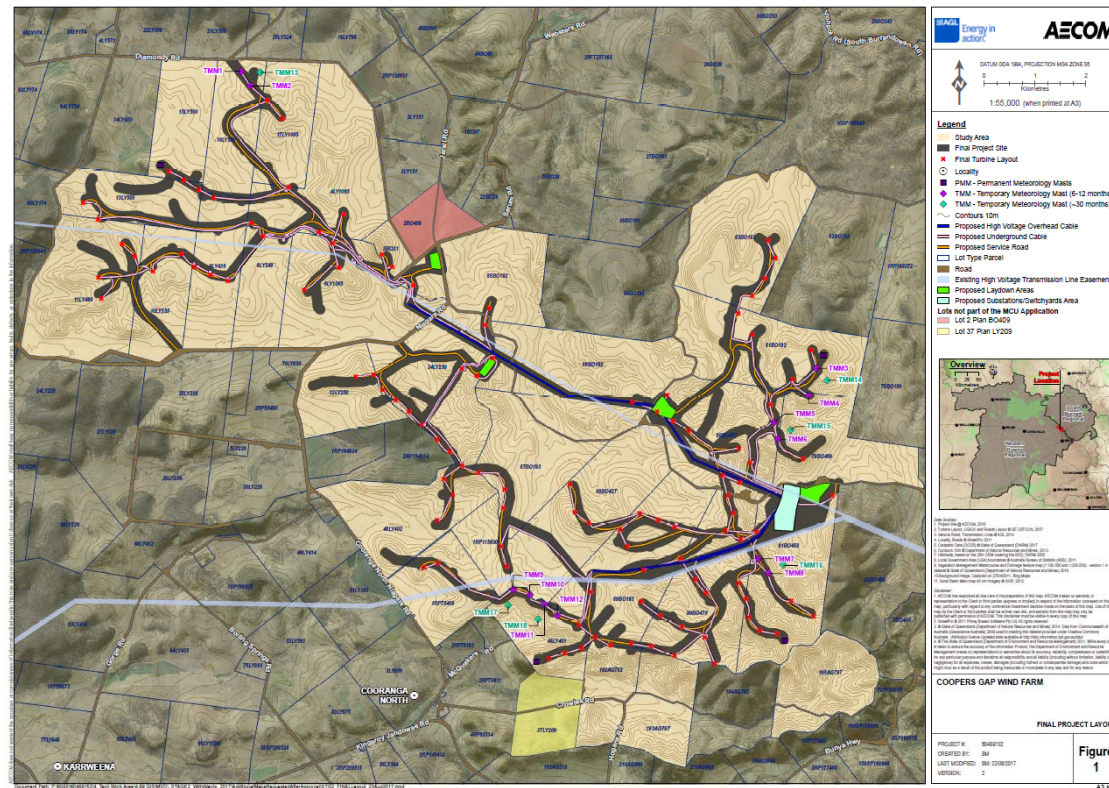


Project Overview

Layout



Site Layout



Project Overview

Scope of Works



Wind Farm Works

- 123 Wind Turbines consisting of 91 x GE3.6-137 and 32 x GE3.8-130
- hardstand areas – approximately 20 m x 40 m
- around 85 km of access roads between the turbines – typically 6 m wide
- underground collector cables – underground cable collecting generation from the wind turbines and connecting to the cable marshalling points
- overhead feeders – conductors connecting the cable marshalling points to the main switchboard and the wind farm substation
- wind farm substation – consists of the main transformer, switchgear, protection, metering, associated electrical infrastructure and the operation and maintenance buildings



Project Overview

Scope of Works



Connection Works

- Establish two 270MVA 275/33kV transformers, including fire wall between the two transformers that extends above the height of the transformer oil tanks, oil containment and switchgear.
- Provide a Control Building within the Powerlink Substation.
- Provide fencing and lightning protection for the Powerlink Substation.
- Provide 33kV underground cable termination structures.
- Design and construct single circuit connection complete with optical fibre earth wire from existing 275kV transmission line into Powerlink Substation.
- Provide and install surge diverters, disconnect/earthing switches and associated equipment required for each wind farm 33kV line exit.



Project Overview

Roles and Responsibilities



Powering Australian Renewables Fund (PARF)

Project Owner

- Equity partners: AGL, QIC, Future Fund
- All contracts entered under PARF Company 10 Pty Limited as trustee of the Coopers Gap Project Trust



AGL Hydro Partnership

Agent to PARF

- Asset Management and Agency Deed (AMAD)
 - Delegated authorities of Project Owner
 - Reporting requirements, KPIs, Budget
- Construction and Operation of the Wind Farm



Project Overview

Roles and Responsibilities



General Electric and Civil & Allied Technical Construction (GE-CATCON)

EPC contractor

- EPC contract
 - Engineer, procure, construct wind farm and associated infrastructure
- Operate and Maintain (O&M) contract with General Electric
 - Service term: 25 years after Date of Facility Practical Completion

Powerlink Queensland

Transmission Services Provider

- Generator Connection and Access Agreement (CAA)
 - Construction of a 275 kV substation and access track
 - Connection to existing transmission line (Western Downs to Halys)
 - Charges only commence from Completion Date of the last Stage of Powerlink Works

Project Overview

Key Milestones



Milestone	Date
Financial close	17 August 2017
Commence works on site (substation)	11 Sep 2017
Substation bench available to Powerlink	19 Jan 2018
Start full site mobilisation	22 Jan 2018
Commence first shipment of Tower, Nacelles, Blades	28 Feb 2018
Arrival of first shipment on site	2 May 2018
Substation and transformers energised	11 Oct 2018
Commissioning of first turbines	6 Nov 2018
Fully operational	Mid 2019

Photos of Silverton

Access track



Project name | 00 Month 0000

Photos of Silverton

Temporary Construction Site Compound



Photos of Silverton

Temporary Construction Site Compound



Project name | 00 Month 0000

Photos of Silverton

Substation Earthworks



Photos of Silverton

Earthworks



Photos of Silverton

Foundation excavation



Turbine Foundation

Turbine Foundation – first concrete pour



Project name | 00 Month 0000

Local Engagement

Information Forums



Information sessions are planned in Dalby and Kingaroy. Details to come.

Ads will be placed in the local papers.

Call Reagan at TSBE on 0408 926 025 for further information.

In the meantime, expressions of interest can be sent to Reagan@tsbe.com.au or Shogan@agl.com.au



Community Fund



- **AGL will establish the Coopers Gap Wind Farm Community Fund to support worthy local community initiatives, clubs and events**
- **AGL will make \$30k available per annum for the construction and operational life of the wind farm (27 years)**
- **During the two years of construction, AGL will allocate an additional \$30k per annum in recognition of the additional impacts associated with construction works**
- **CPI escalation applies so the real value does not erode**
- **Two funding rounds per year during construction – first in November 2017 (announcements at next CCC?), second in May 2018**
- **This is in addition to other planned initiatives including the free solar program**

Contact

Tim Knill
Construction Project Manager
(02) 9921 2276
tknill@agl.com.au



Community Engagement



Clare Wilkes Mildren



AGL seeks to conduct our activities in ways that contribute enduring benefits to the communities in which we operate. Our aim is to create net positive social, environmental and economic outcomes as our business grows.

Our engagement approach varies with the requirements of each community, and is informed by our values.

AGL strives to make a net positive social, economic, and environmental contribution to the communities in which we operate.

Our vision is for AGL to be a trusted and respected member of the community and for our community engagement to exceed baseline regulatory requirements. AGL's commitments are articulated in our [Community Engagement Policy](#) which states we will:

- **Be proactive:** we will engage with communities early and often, so that we understand and respond to their interests and concerns.
- **Be flexible and inclusive:** we will offer a range of engagement opportunities that are tailored to the variety of needs and preferences of the communities in which we operate.
- **Be transparent:** we will act honestly and ethically in all our dealings with the communities in which we operate.
- **Support our employees and contractors to engage well:** we will provide tools, peer support and training to enable our staff to deliver on our commitment.
- **Continuously improve our engagement:** we will evaluate the effectiveness of our engagement and modify it as needed to ensure that our activities address community needs and expectations.

Community Fund



We will establish a Coopers Gap Community Support Fund, which allows local groups and organisations to benefit from AGL's presence in their community.

My Two Passions Working on this Project

1. Local Procurement
2. Mobile Phone Coverage

Collective Impact

1. What is Collective Impact?

“Collective Impact is the commitment of a group of important actors from different sectors to a common agenda for solving a specific social problem”

Source: FSG.ORG



Five Elements of Collective Impact



Common Agenda



Shared
Measurement



Mutually Reinforcing
Activities



Continuous
Communication



Backbone
Organizations