



# Crudine Ridge Wind Farm

CCC Presentation December 2017



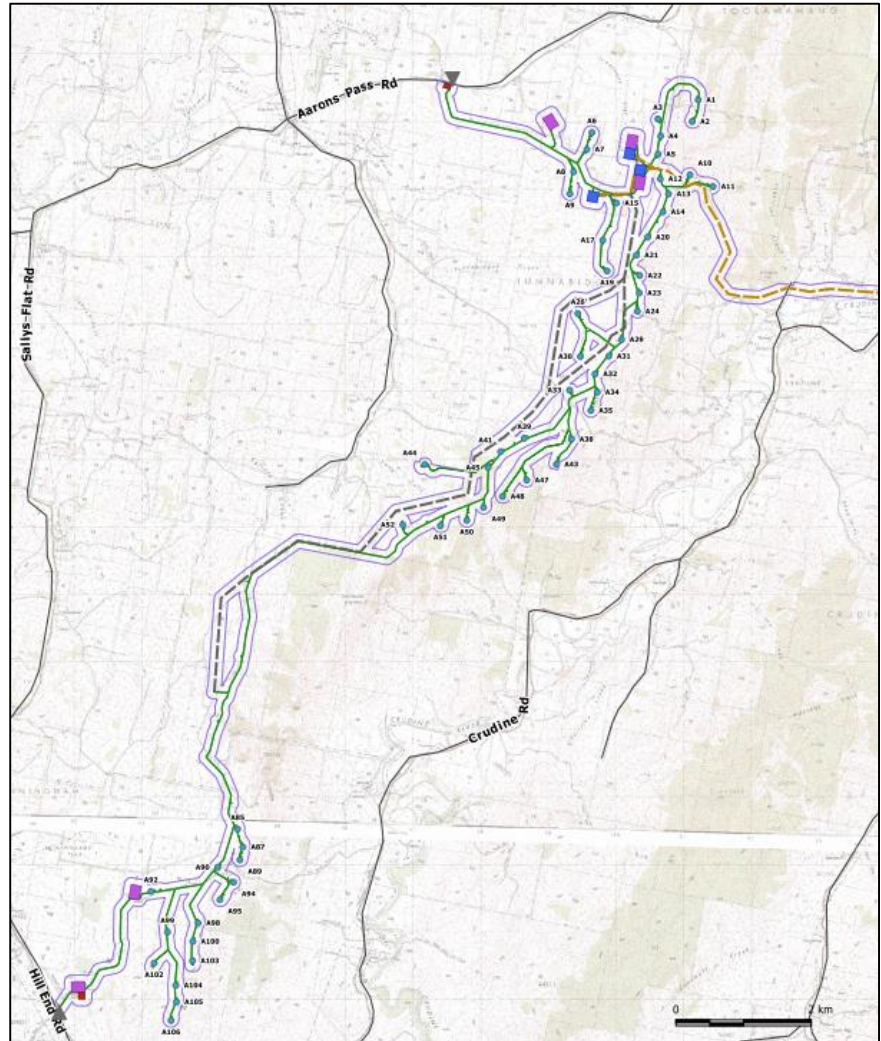
# Agenda

- General Update
- Pre-construction Update
  - Contracting
  - Road Design
  - Geotechnical study
  - Management Plans
  - Material Sourcing
- Timeline to construction



# General Update

- We are currently working through contracting and financing.
- Equity and Debt financing will likely be complete toward the end of Q1 2018.
- Aiming to start construction in Q2 2018, beginning with Aarons Pass Road upgrades.
- The Project is yet to finalise the layout for the wind farm because the turbine contracting is ongoing.
- Once the 37 turbine layout is confirmed, the Project will notify key stakeholders including the CCC.
- Visual and noise impacts of the final layout will be communicated with all residences identified as high, moderate and low in the Development Consent, and those within 4km of a wind turbine.



# Contracting

- Construction contracts are being negotiated with preferred suppliers:

- Turbine Supply:  GE Renewable Energy

- Balance of Plant:  Zenviron

- Substation:  TransGrid

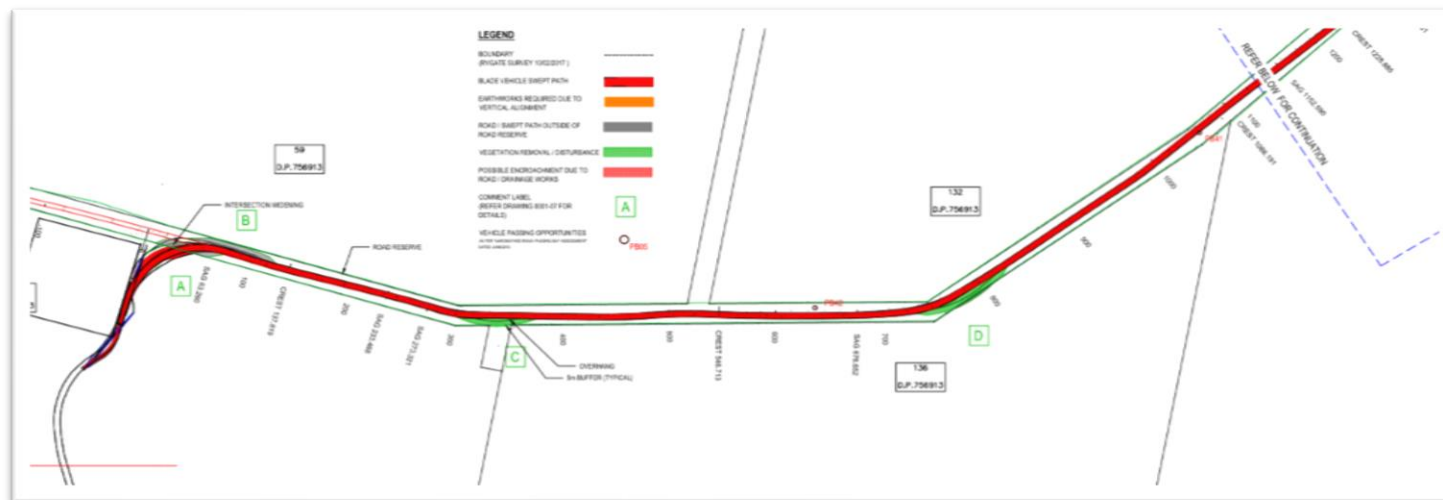
- Contracts are expected to be finalised at the end of Q1 2018

- An Early Works contract has been signed with Zenviron to deliver long-lead time items such as road design and geotechnical study.



# Road Design

- We are currently doing detailed design of Aarons Pass Road and Bombandi Road in accordance with the Development Consent.
- In October/November we undertook cadastral survey and further environmental survey to inform the design work.
- The roads upgrades will be delivered by MWRC Works Department under contract to the Project.
- Traffic Management Plans are being developed in consultation with Council based on the agreed program for the upgrades.



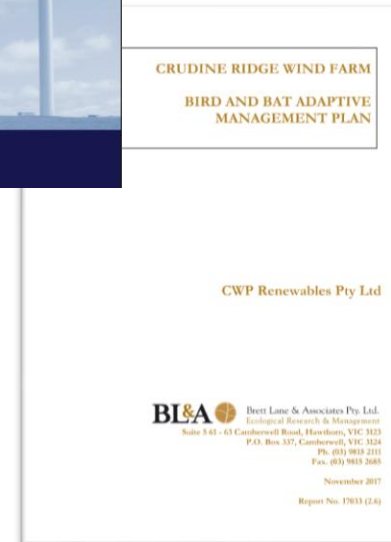
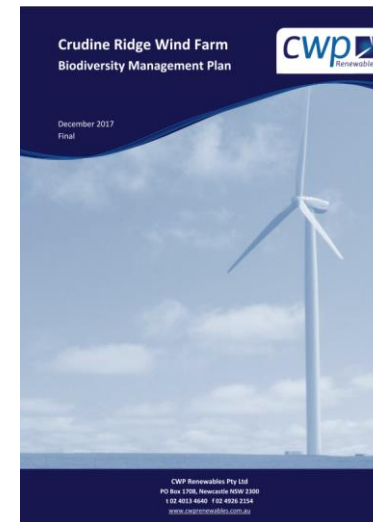
# Geotechnical Study

- A geotechnical study is currently underway to assess rock and soil structure.
- A 30t excavator is being used to undertake small test pits which will be backfilled following works.
- Test pits will be conducted at:
  - Turbine footing and crane pad locations
  - Substation and compound areas
  - Along the access roads
- The works are being undertaken by the preferred contractor: Zenviron, and their subcontractor Daracon.



# Management Plans

- Prior to the commencement of construction, the Project is required to prepare:
  - Environmental Management Strategy
  - Biodiversity Management Plan including:
    - Biodiversity Offset Strategy
    - Bird and Bat Adaptive Management Plan
  - Aboriginal Heritage Management Plan
  - Transport Management Plan
- All management plans have been prepared in consultation with the relevant government agencies and local Councils.
- All management plans are currently with Department of Planning and Environment for their review and approval.
- Once the management plans are approved they will be published on the Project website.



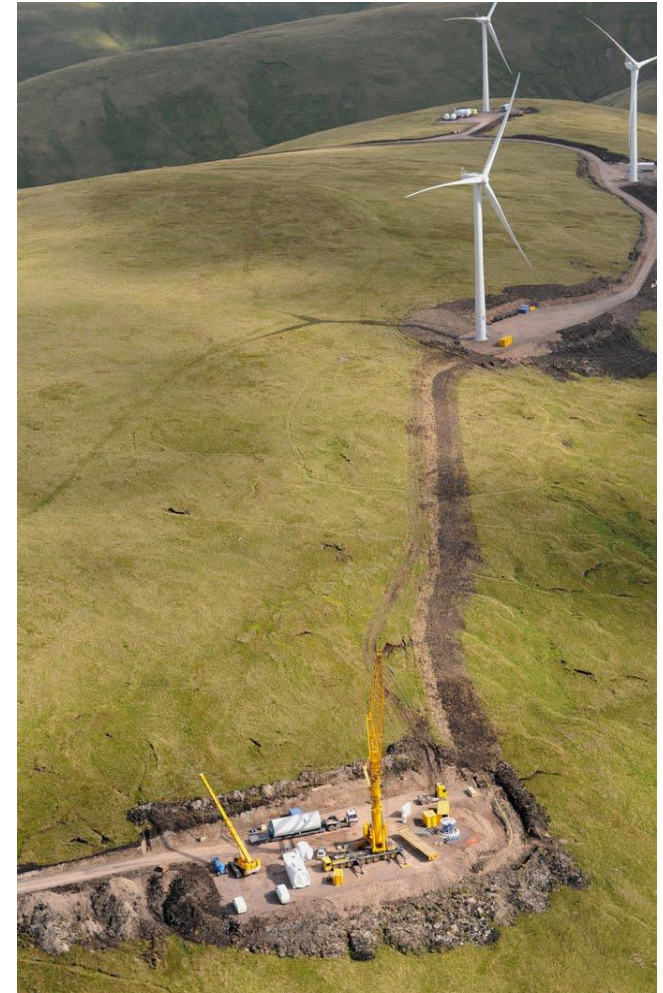
# Material Sourcing

- The Balance of Plant contractor has been investigating opportunities for sourcing hard rock, gravel and water within the Project area.
- The benefits of sourcing materials onsite include:
  1. Improved safety by reducing traffic, particularly along Aarons Pass Road and Hill End Road
  2. Reduced dust and noise for houses along the transport route
  3. Minimise damage to Council roads from heavy vehicle haulage
  4. Avoid existing quarries required for the ongoing Council road works program
- Australian Resource Development Group (ARDG) is a third party that has been assessing suitability and availability of construction materials:
  - Identified a number of potential quarry and water supply options onsite.
  - Development Applications are expected to be lodged in early 2018 through relevant Council process.
  - Water supply licences will be sought from the NSW Office of Water.
- ARDG are not a related entity to CWP or the Project.



# Timeline to Construction

- VPAs – Endorsed and signed by Council
- Management Plans – submitted for approval
- Road Upgrades
  - Survey completed
  - Further environmental studies completed
  - Detailed design underway
- Construction Contracting Underway
- Pre-construction Minor Works – Q4/Q1
- Grid Connection Agreement – Q4/Q1
- Due Diligence and Financing – Q4/Q1
- Detailed Design – Q1/Q2
- Construction to commence - Q2 2018





Questions and discussion

