

Boomer Range Wind Farm

Community Information Session

Marlborough, 11 March 2022

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EPURON

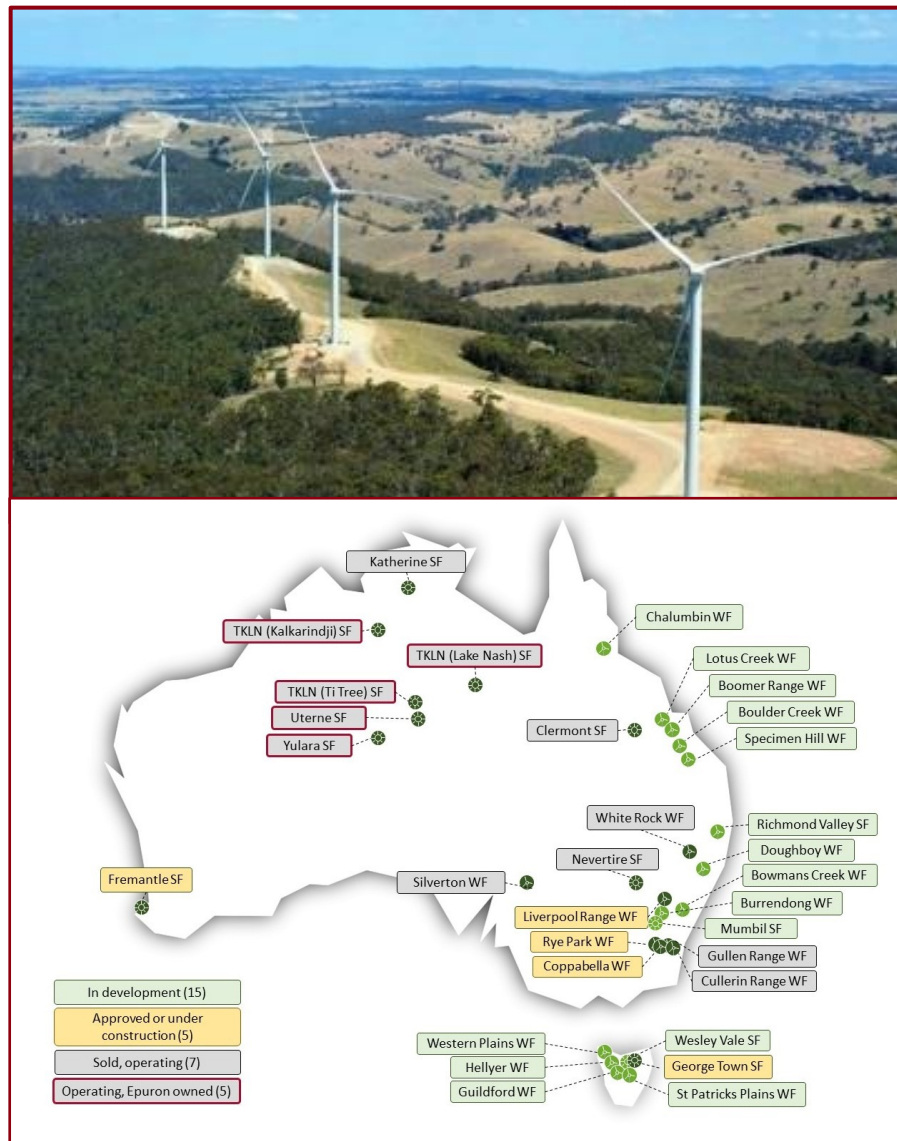
Acknowledgement of Country

We acknowledge the Traditional Custodians of the land on which we meet and their continuing connection to lands, waters and communities.

We pay our respects to Elders past, present and emerging.

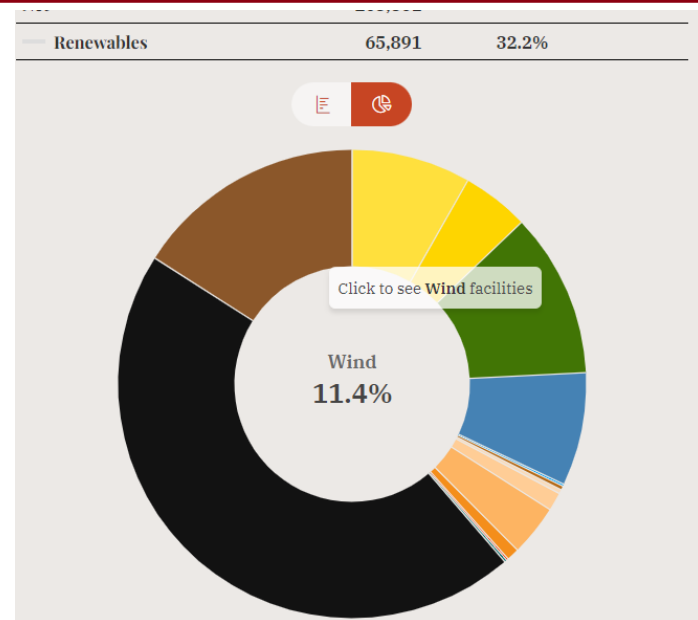
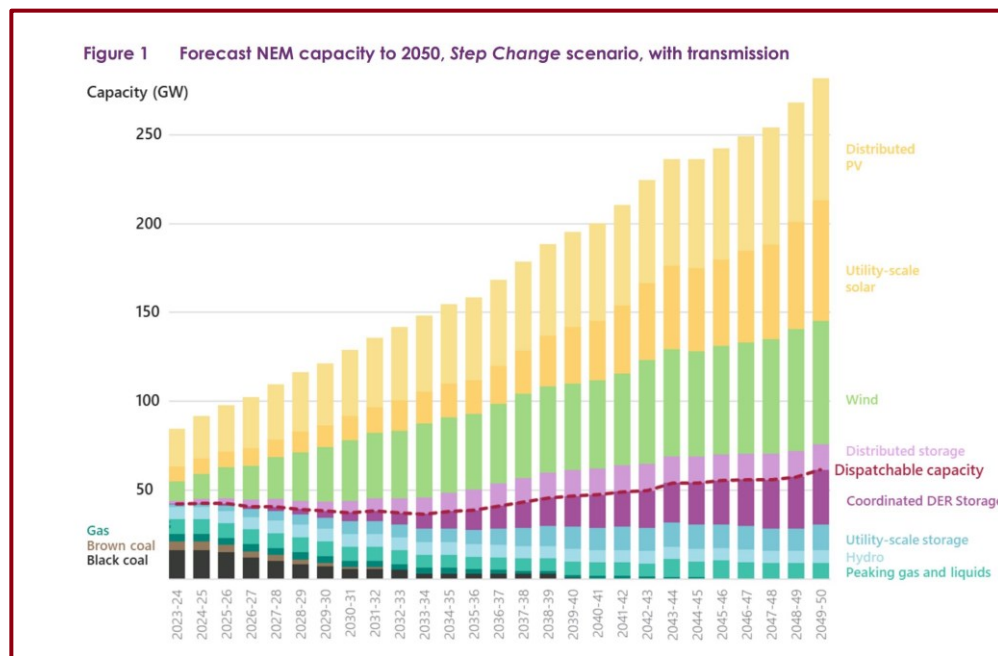
Epuron

- Developing renewables since 2003.
- **4000 MW** of utility-scale wind farm experience including 8 approved wind farms.
- **12** wind farm projects in development (Qld, NSW, Tas).
- **400 MW** of utility-scale solar energy experience including 5 operating solar farms
- **6** solar farm projects in development (WA, NSW, Tas, NT).
- Signatory to Clean Energy Council's Best Practice Charter.
- Expert team, collaborative and consultative approach.

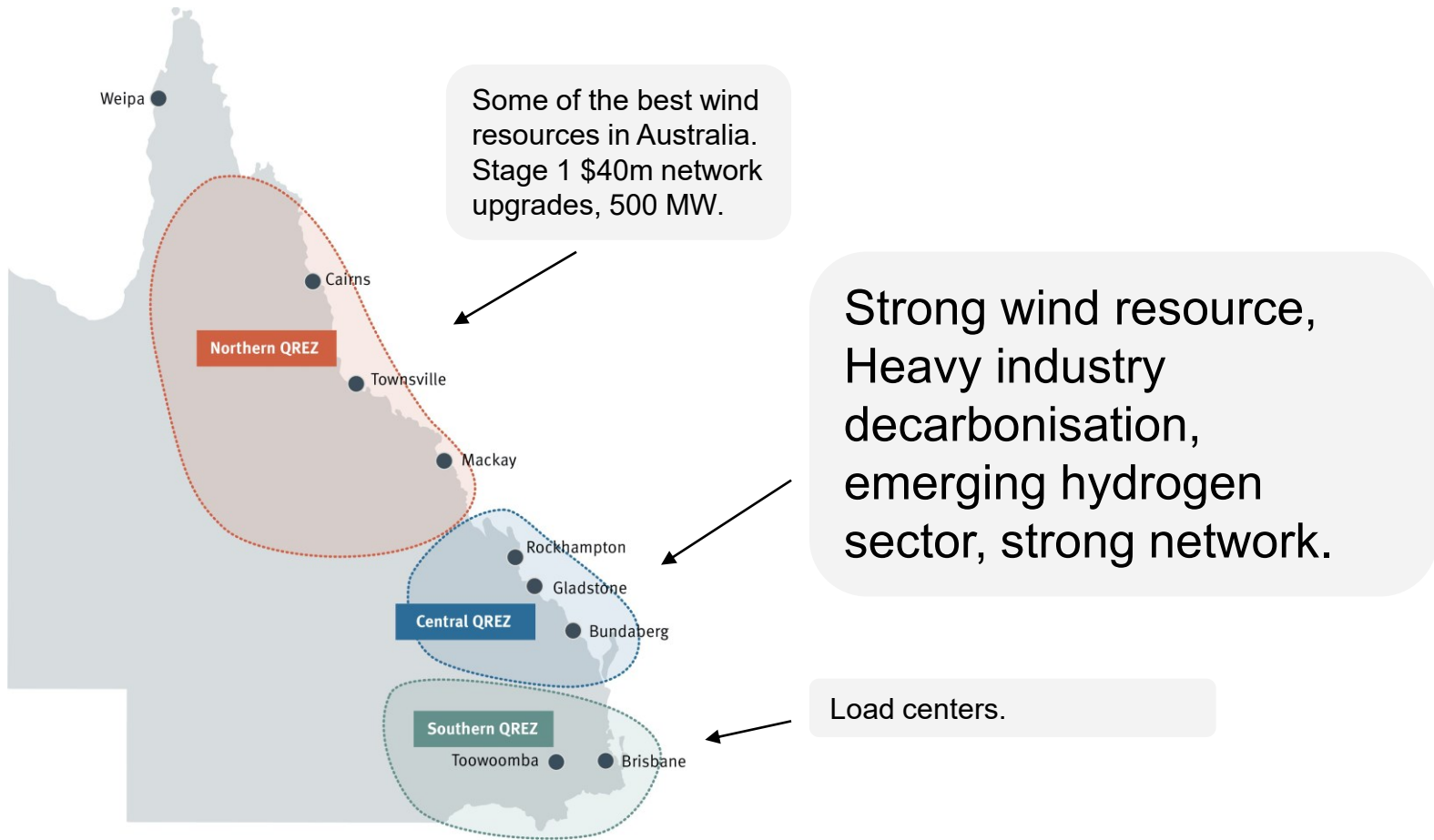


Big picture

- Coal retiring 2-3 times faster than expected.
- Draft 2022 Integrated System Plan (ISP) = NEM needs 135GW solar, 70GW wind, 45GW storage by 2050.
- Triple the previous forecast and nine-times the variable RE we have now.
- Qld. renewable energy target 50% by 2030 (currently ~20%).
- AEMO projects 47 GW of new RE in Qld by 2050.



Queensland's renewable energy zones



Site selection



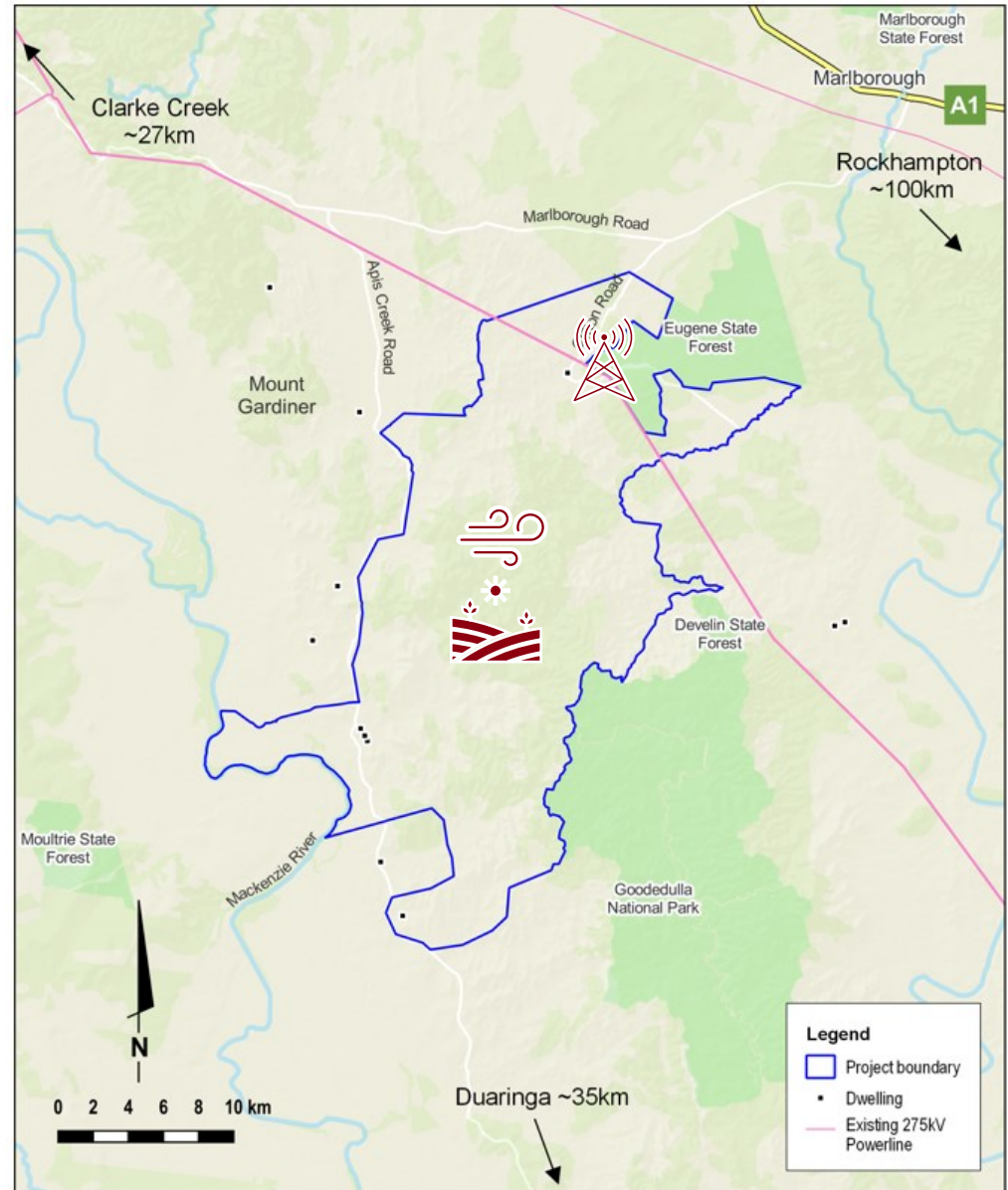
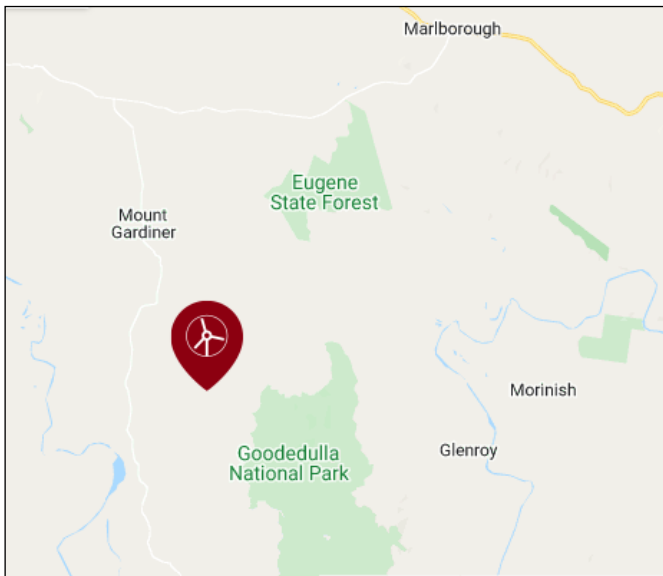
Wind resource



Grid connection

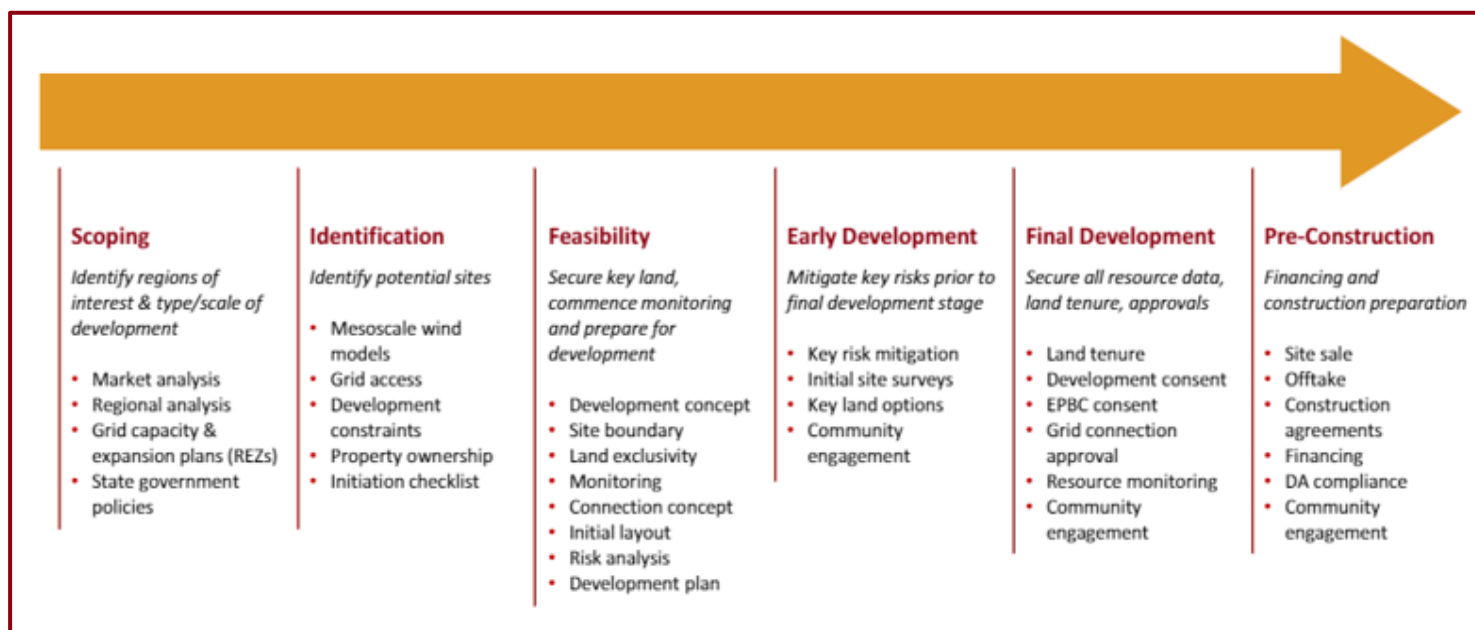


Land tenure



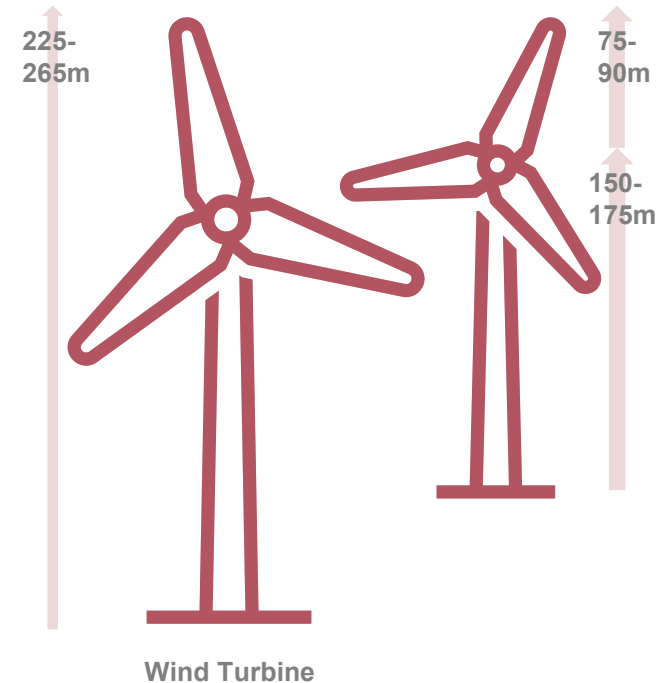
Project design process

- Feasibility study process advances project definition over time.
- Iterative design process, constraints and opportunities considered (e.g. ecology, cultural heritage, civil works, wind resource modelling etc.)
 - Project is at the feasibility stage



Typical wind turbine specifications

Parameter	Unit	Qty
1. Hub Height (Up to)	Metres	110 – 175
2. Blade Length (Up to)	Metres	75-100
3. Total Tower Height (Up to)	Metres	225-275
4. Wind Turbine Capacity	Megawatt	4 to 8



Components - examples

Access tracks



- 5.5m crest width
- Wider toe width required for cut / fill batters, drainage and erosion control
- Buried cabling
- Preliminary design

Tower foundations



- 800m³ concrete
- Constant pour to maintain integrity

Components - examples

Hardstands



- Crane assist pad, high / large equipment
- Laydown area (blades, tower, nacelle etc.)
- 1.5 to 2 ha per turbine

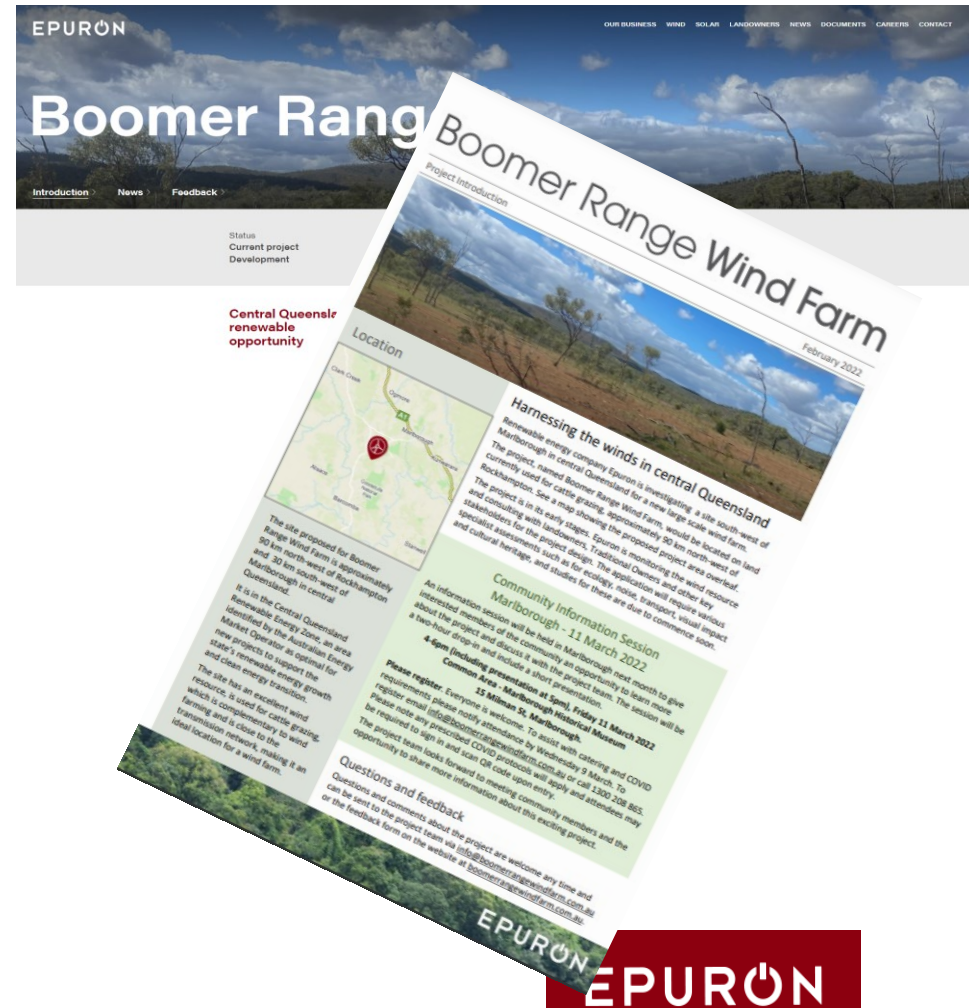
Substations



- Wind farm collector to link turbines across site
- Low voltage to high voltage connection
- Potential for battery storage to support grid connection
- 2 ha each

Community engagement

- Project updates issued via mail and email.
- Project website with feedback form:
boomerrangewindfarm.com.au
- Information sessions.
- Ongoing engagement and consultation with community members and stakeholders via email and phone.



Socio-economic benefits

- Investment to engineer, procure and construct the project
 - Significant direct and indirect expenditure, value-add and household income in local, regional and Qld economy.
 - Expenditure includes direct and indirect expenditure in local economy during construction.
- 2 years of construction work
 - Jobs on site – civil/electrical, construction, admin, support etc..
 - Aim for local work force where possible.
- 25 + years of operation
 - long term jobs for local people.
 - Mostly wind turbine technicians – electrical trade.
 - Landscaping, admin, support etc.

Construction opportunities

- Electricians HV/ LV
- Engineers
- Heavy vehicle drivers
- Steel fixers, & Welders
- Riggers & Labourers
- Road constructors
- Crane operators
- Geotechnical testers
- Excavator operators
- Mechanical fitters
- Project managers
- Environmental officers
- Plumbers
- Fence builders
- Supervisory roles
- Surveyors
- Security Officers
- Landscapers & Gardeners
- Cleaners
- Maintenance staff
- Caterers
- Administration staff
- Safety officers
- Accommodation services

Typical operations opportunities (25+ years)

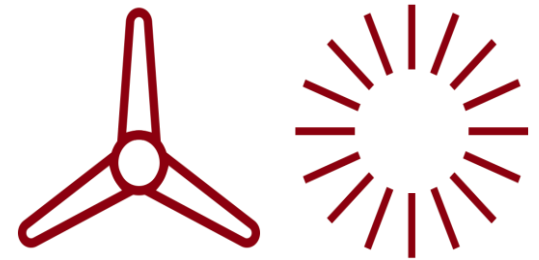
- Operations team remains with the project
- Wind turbine technicians
 - Electrical experience (typically)
 - Special training
 - 1 technician per 5-6 turbines
- Managers/admin
 - 2-3 depending on project size and ownership
- Landscaping
 - Ongoing offset and ecology management requirements
 - Rehabilitation
- Community liaison
 - Contact for any community concerns
- Total team 15-30
 - Living locally, or sourced locally

Next steps

- 2022 - 2023
 - Feedback from Community Information Session
 - Continue to define project boundary and design including continued wind monitoring
 - Development studies
 - state code development application
 - EPBC referral
 - Design refinement
- 2024 - 2025
 - Pre-construction
 - Secondary Approvals
 - Construction

* Indicative, subject to completion of previous stages

Questions



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Thank you

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