



Forest Wind

Forest Wind

Community Reference Group Meeting

7 December 2023



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Agenda Item 4

Project overview and status
update



Project location

Forest Wind's location has been carefully selected to meet energy market needs. It avoids or mitigates potential community impacts, including landscape, ecology and acoustic amenity

Co-located within exotic pine plantation in the Wide Bay region

- Within existing exotic pine plantations between Gympie and Maryborough, on Queensland Government owned land amongst Toolara, Tuan and Neerdie State Forests.
- The co-location of forestry and wind turbine generators showcases land use for sustainable energy and forestry.
- The project is located within the Gympie and Fraser Coast Regional Council Local Government Areas (LGA).
- The project is engaging with Butchulla Land & Sea Determination Area and Kabi Kabi First Nations claim area – The project is in consultation with the Traditional Landowner Groups.
- The pine forest covers a very large area of 65km by 30km, with the dense pine needles providing a natural buffer between Forest Wind and local residences.
- Planned 3km separation distance from residents to wind turbines is world leading.
- Overhead transmission corridor connecting the project to the Woolooga substation, which is owned by Powerlink.





Scale
0 3 6 km



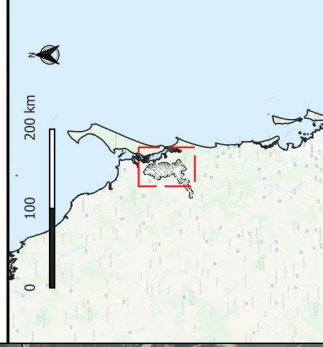
1:175,000 on A3
Created by: CleanSight Pty Ltd
Last modified: 26 December, 2019
Project#: SWP2019_01_Landscape Local
Context

FIGURE 1

Local Context

Legend

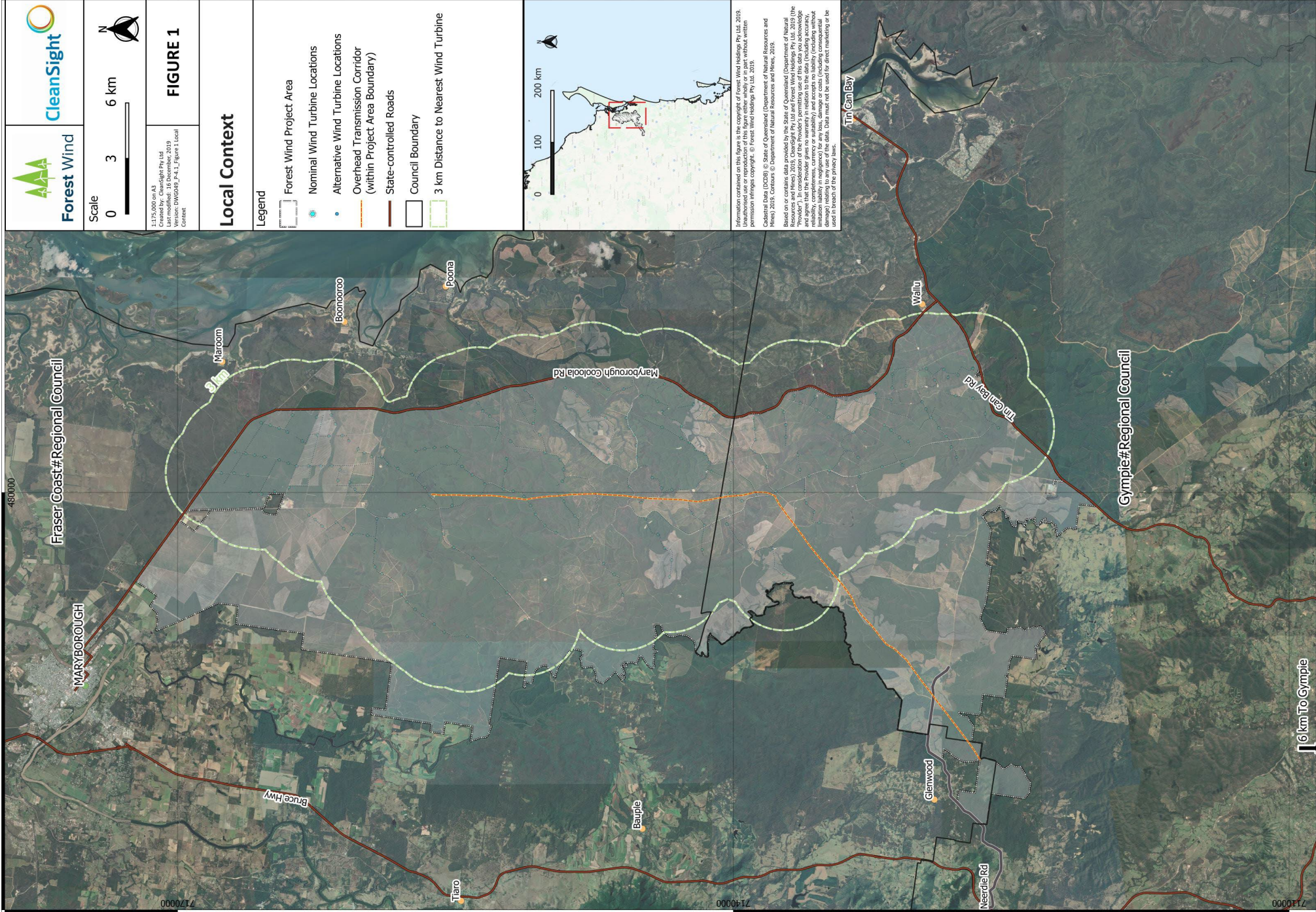
- Forest Wind Project Area
- Nominal Wind Turbine Locations
- Alternative Wind Turbine Locations
- Overhead Transmission Corridor (within Project Area Boundary)
- State-controlled Roads
- Council Boundary
- 3 km Distance to Nearest Wind Turbine



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Project infrastructure

Turbines

Feature	Specification
Project generation capacity	Up to 1200MW
Turbine electrical output	4-6 MW current market (TBC)
No. of turbines	Up to 226
Tip height proposed	Up to 295m

Key infrastructure

- Substations
- Battery storage
- Underground 33kV reticulation electrical lines
- Approx. 65km high voltage electrical transmission line starting in the north of the wind farm area (Butchulla) through to Powerlink's Woolooga Substation (within Kabi Kabi country)
 - Forest Wind continues to explore options for a transmission line corridor connecting the wind farm to the grid
 - The project is engaging with potentially impacted stakeholders as part of this process.

Access roads and tracks

- Main access to the wind turbines and construction compound is currently being evaluated between Maryborough and Gympie. Secondary entrances will be via other state-controlled roads, Tin Can Bay Road or Maryborough Cooloola Road, or other local roads.
- Existing track network in plantation used to access turbine locations to the extent possible.
- Utilising existing tracks reduces requirement to build new access tracks for wind farm and transmission line.

Temporary construction infrastructure

- Temporary workers accommodation (may be required)
- Concrete batching plants
- Investigations to source water and aggregate required during construction are ongoing.

Project Benefits

Forest Wind has the potential scale and benefits to be a key project in helping drive the energy transformation for Queensland communities.

Forest Wind will deliver a range of local, state and national benefits, including:

- **A major clean energy opportunity** for Queensland, that will have the capacity to generate up to 1200MW of electricity – that's enough to supply 1 in 4 Queensland homes.
- **Local jobs and business opportunities:** Forest Wind will generate a number and wide array of jobs and training opportunities, from direct work during construction and operations, through to indirect jobs for the supply of goods and services for the project.
- **Benefits to local communities:** Forest Wind will work with the local community to identify and implement local initiatives that address community priorities and benefit the surrounding communities.

Typical employment and contracting opportunities

Construction roles

Roles	
Forestry integration	Labourers
Planning, environment and approvals compliance, on site management	Mobile plant operators
Bricklayers	Security
Building and engineering technicians	Truck drivers
Electricians	Project management
Electronics and telecommunications	Crane operators (highly skilled)
Civil engineers	Legal professionals
Electrical engineers	Community/ stakeholder engagement
Mechanical engineers	Workplace health and safety officers
Fabrication engineers	Administration
Catering	Cleaning

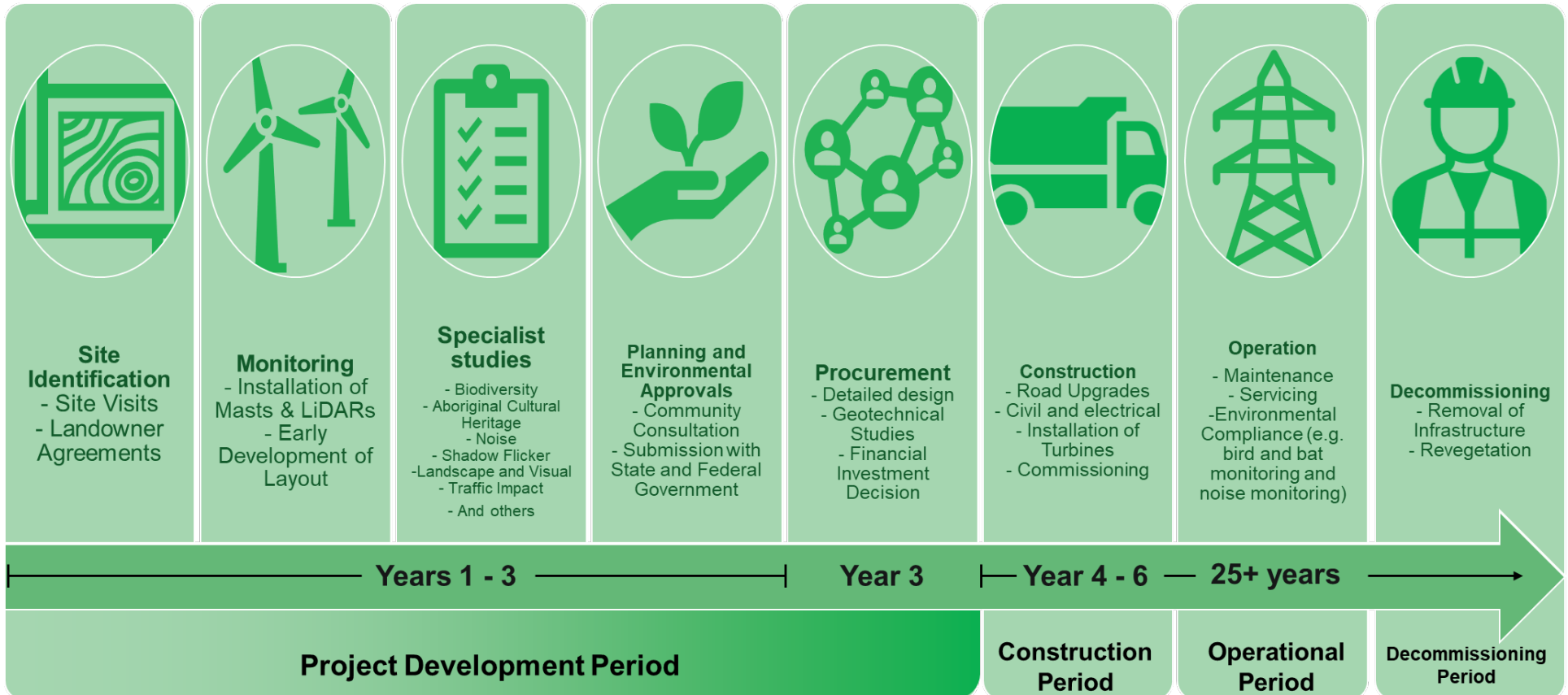
Operations and Asset Management roles

- Site Lead x 1 – Very experienced trade qualified person with substantial team leadership and maintenance management experience.
- Qualified electricians
- Mechanical trade qualified technicians. For example, fitter, mechanic, hydraulic
- “Basic Technicians” – people with reasonable mechanical aptitude who would be given turbine maintenance specific training, with focus on less skilled work such as bolt torquing and lubricant replacement
- High Voltage (HV) Operators. These are specialised roles, writing, checking and carrying out High Voltage Switchgear operations.
- Site Administration role
- Stores / Spare Parts
- Administrators
- Forestry coordination
- Environmental monitoring and development permit compliance
- Asset management (contracts management)
- Sub-contracts:
 - Cleaning
 - Waste removal
 - Some civil maintenance
 - Fuel zone reduction, weed management
 - Met mast maintenance
 - Back-up generator systems



Development status

Current stage



Our next project milestone

EPBC RFI Wind Farm Area

- We are preparing a report to provide additional information requested by the Department of Climate Change, Energy, the Environment and Water for assessment of Forest Wind under the *Environment Protection and Biodiversity Conservation Act 1999*.
- Our EPBC response must address the project's management approach for Matters of National Environmental Significance. Some of these include threatened species, migratory species and the Ramsar wetland.
- When the Department advises that our EPBC response is authorised for publication, the documentation will be made available for public comment.
- We will notify you and provide information on where you can access the Preliminary Documentation Report and associated studies.
- We will also be actively seeking feedback from local environment groups.



Forest Wind

About Tilt Renewables

Tilt Renewables is a leading renewable energy business and the largest owner of wind and solar generation in Australia

Tilt Renewables works with our neighbours to strengthen our communities

	Community Benefit Funds Six funds distributing \$400,000 + annually
	Education School and training scholarships Country Education Foundation support Federation University training tower
	Sponsorships & Grants Support for sports clubs, emergency services, community groups, regional events and tourism
	Mental & Physical Well-being Mental wellbeing program for students 10 years of funding for a Lifeline officer Safe housing for vulnerable women
	Economic Participation Food truck for Rye Park Solar power for rural communities
	Environmental Initiatives Revegetation programs Partnership with Odonata to support the return of critically endangered species

Project Name	Capacity (MW)
Forest Wind (IN DEVELOPMENT)	1,200
Coopers Gap Wind Farm	453
Rye Park Wind Farm	396
Blayney Wind Farm	10
Crookwell Wind Farm	336
Dundonnell Wind Farm	336
Silverton Wind Farm	199
Snowtown Wind Farm	101
Nyngan Solar Farm	102
Broken Hill Solar Farm	53
Salt Creek Wind Farm	54

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- Tilt Renewables is an owner, operator and developer of renewable energy and storage projects in Australia.
- Tilt Renewables currently has an operating portfolio of over 1,300 MW of renewable generating assets with a further 396 MW (Rye Park Wind Farm) currently under construction.
- We have a significant development pipeline of projects, including the Forest Wind project which will be key in our goal of having an operational portfolio of 7 GW by 2030.

About CleanSight

CleanSight (est. 2011), one of QLD's longest serving renewable energy companies, commenced the Forest Wind development in 2015 and welcomed Tilt Renewables as partners in early 2023.

CleanSight is family owned by internationally experienced professionals in wind power development, energy markets, project management and financing.

100+ RSD unit installations Australia-wide



Forest Wind



270MW

Under construction

Client: CWP

Project Director

EPC procurement process

Energy yield and financial optimisation



115MW

2015 commissioned

Client: CWP

Secured PPA

Technical, commercial and financial optimisation.

Delivered Asia-Pacific wind deal of the year 2013.

OAKEY

Solar Farm

80MW

2017 commissioned

Project owner prior to Canadian Solar investment

Site selection, grid connection, planning feasibility studies, commercialisation, landowners, design and financial optimisation.

Agenda Item 6

Where we got to in 2021



Where we got to



Forest Wind

The Forest Wind Community Reference Group has met 3 times previously, in September 2020, November 2020 and February 2021.

Topics covered

- Project overview, infrastructure description, development process.
- Project origins and development process
- Site visit to Coopers Gap Wind Farm
- Development application and planning studies
- Ecology studies and environment management plans
- Development approval conditions
- Types of employment and business opportunities
- Community questions around:
 - Community consultation
 - Health impacts
 - Noise impacts
 - Property price impacts
 - Construction phase impacts
 - TV and phone reception impacts
 - Impacts on birds and other fauna
 - Fire risks

Topics we covered and agreed to park until further information becomes available

- Wind turbine locations, site design
- Transport routes and construction plans
- Ecology studies and environmental impacts
- Health impacts (if any changes to advice currently provided by National Health and Medical Research Council)

Topics raised for further engagement and discussion at future meetings

- Community Benefit Sharing
- Background noise assessment
- Impacts on property values
- Overhead transmission line route