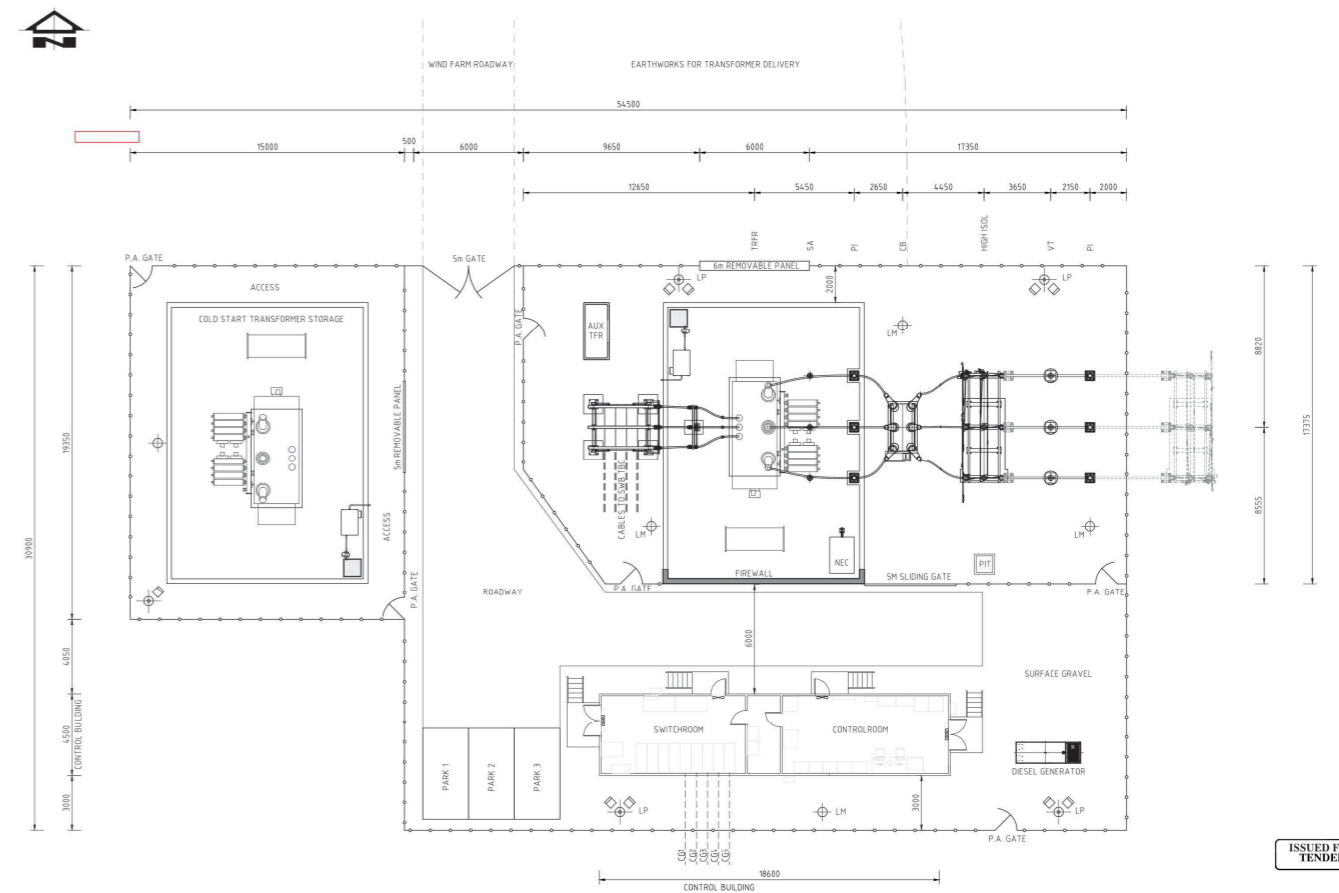


Photograph illustrating the character of the turbines proposed

Proposed turbines – Indicative elevations

Turbine dimensions

Turbines	Hub height	Rotor diameter	Tip height
1 - 17	110 – 132m	150 – 160m	190 – 207m
18 - 24	98 – 112m	136 – 146m	171 – 180m



Substation Layout Plan



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Onshore Wind Turbine

- Pitch System**
Independent blade pitch angle adjustment combined with generator torque enables rotor to regulate speed depending on wind conditions
- Hub**
Mounted on main shaft - can be entered through hatches located on the nacelle to simplify up-tower repairs
- Blades**
158 meter rotor diameter with blades from LM Wind Power
- Tower**
Hub heights available at 101m, 120.9m with tubular tower & 149m, 161m with hybrid concrete tower
- Nacelle**
Larger nacelle platform brings more comfort to Service personnel and facilitates up-tower repairs
- Generator & Gearbox**
Based on a proven doubly-fed induction generator (DFIG) electrical system, available at 50 Hz & 60 Hz
- Control System**
Control system and digital integration including WindSCADA control system, Asset Performance Management (APM) and cybersecurity modules
- Electrical System**
High power density electrical system for performance and grid integration

Ideal for low to medium wind speed sites

GE's 4.8-158 can power the equivalent of up to 5,000 residential homes in Europe. It is GE's largest, high efficiency onshore wind turbine to date with a 30% higher annual energy production compared to GE's 3.6-137

Turbine nacelles (indicative character)

Figure A17 : Kaimai Windfarm – Turbines and substation design

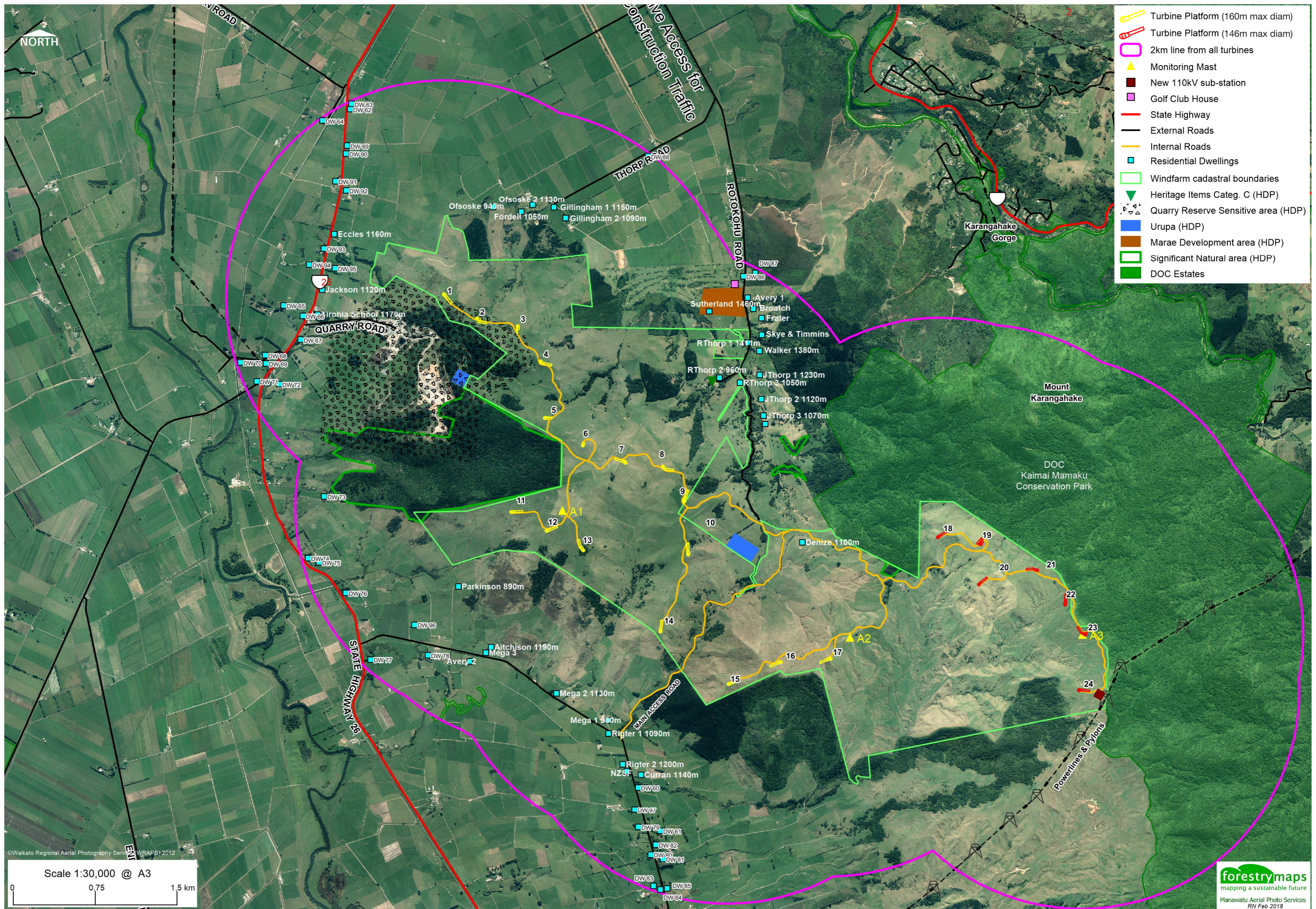


Figure A18 : Kaimai Windfarm – dwellings within 2km of a turbine



Photograph Location Map