

FACT SHEET

Carbon Emissions



Forest Wind

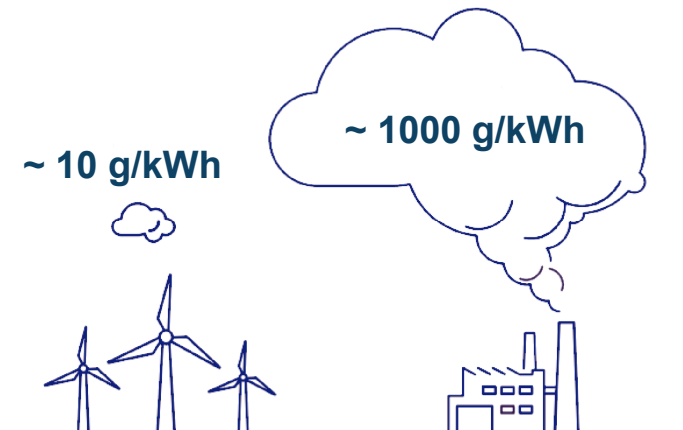
Queensland government aims to reduce carbon emissions by at least 30% below 2005 levels by 2030. Forest Wind will make a significant contribution to achieving this target with the potential to offset emissions from 1 million cars each year.*

Life Cycle Analysis Carbon Emissions

Wind energy produces zero carbon electricity and even when considering the full life cycle of the wind farm from manufacture to decommissioning, CO₂e emissions are 100 times lower than electricity produced from a coal fired power plant.**

How long does it take for a wind farm to payback the energy used to build it?

Multiple studies demonstrate that a wind farm can produce as much energy as used for its manufacture and construction within 7 months to 2.5 years, depending on turbine size and location. The useful life of a wind turbine can be up to 30 years.



The Forest Wind experience

- At 1200MW, Forest Wind has the potential to generate enough electricity to supply 1 in 4 Queensland homes with clean energy
- Each 400MW of wind power capacity installed at the Project, is estimated to offset just under 1 million tonnes of CO₂e each year
- Estimated annual CO₂e offset contributions for Forest Wind are as below:



Staging scenarios	Estimated CO ₂ e offsets each year
252MW	576,000 tonnes
426MW	958,000 tonnes
600MW	1.35 million tonnes
1200MW	2.62 million tonnes

Resources

* based on average emissions of cars sold in 2017[^] and average km travelled by Queensland drivers^{^^}

[^]Green Vehicle Guide - Vehicle Emissions <https://www.greenvehicleguide.gov.au/pages/Information/VehicleEmissions>

^{^^}Australian Bureau of Statistics <https://www.abs.gov.au/ausstats/abs@.nsf/mf/9208.0> for 12 months ending 30 June 2018

^{**}National Renewable Energy Laboratory, 2013, Wind Power Results – Life Cycle Assessment Harmonization, available at: <http://www.nrel.gov/docs/fy13osti/57131.pdf>

For information about the project and opportunities, to keep in touch, or to have your say:

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