



Smart Energy Retail Pty Ltd
ABN 49 639 060 405

Carbon Neutral PDS

Reporting forecast for CY 2022

1 January 2022 – 31 December 2022

This report has been prepared for Smart Energy Retail Pty Ltd, 923 Bourke Street, Waterloo NSW 2017, Australia by Pangolin Associates.

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1. Carbon Neutral Electricity

1.1 Organisation Description

Smart Energy Retail's mission is to help transition Australia to a better, cleaner future. We help Australian electricity consumers feel better about their energy by providing 100% carbon neutral plans - every single one of them. We're committed to providing an environmentally friendly and affordable alternative for people's energy needs.

Smart Energy Retail has engaged Pangolin Associates to calculate the carbon emissions associated with their supply of grid electricity to their energy customers. This engagement covers electricity sold from 1 January 2022 – 31 December 2022. Additional offset credits are scheduled to be purchased yearly to cover any forecasted electricity sold after 31 December 2022 and a new public disclosure summary provided to cover succeeding periods.

1.2 Methodology

The electricity emissions were calculated using the Location-Based method, which provides a picture of the electricity emissions in the context of its location and the emissions intensity of the electricity grid it relies on. It reflects the average emissions intensity of the electricity grid in the location (state) in which energy consumption occurs. Electricity usage in each state were converted into emissions (tCO₂-e) using the relevant state National Greenhouse Accounts (NGA) Factors in accordance with "Method 1" from the National Greenhouse and Energy Reporting (Measurement) Determination 2008 and the National Greenhouse and Energy Reporting (Measurement) Technical Guidelines for the relevant reporting period.

2. Emissions

2.1 Emission Summary

The following emissions summary is a conservative estimate that will be trued up with actual data at the end of CY 2022 (31 December 2022).

Table 2.1			
Emission source category	kWh	Full Emission Factor (Scope 2 & 3)	Emissions (tCO ₂ -e)
NSW Electricity	600,000	522	522
QLD Electricity	150,000	139.5	139.5
Total electricity emissions (tCO₂-e)			661.5

2.2 Emissions Over Time

Table 2.2		
Emissions Since 1 April 2021		
	1 January 2021 – 31 December 2021	1 January 2022 – 31 December 2022 ^a
Total tCO₂-e	327.8	661.5

(a) Emission for this period have been calculated based on a forecast and will be updated after 31 December 2022.

2.3 Assumptions

Forecasted electricity usage (kWh) CY 2022, 1 January 2022 to 31 December 2022, were used in the calculations. Once the year has ended, a recalculation of the electricity emissions will be conducted using the actual usage for the whole period.

3. Carbon offsets

3.1 Carbon Offsets Summary

The following carbon credits have been pre-purchased for the period of CY 2022.

Project description	Eligible offset units type	Registry unit retired in	Date retired	Serial number	Vintage	Quantity (tCO ₂ -e)
150 MW grid connected Wind Power based electricity generation project in Gujarat, India.	VCUs	Verra	21 April 2021	9088-67256821-67258901-VCS-VCU-1491-VER-IN-1-292-18062016-31122016-0	2016	2,081
Natural Capital Unit stapled with Yuxian Baiyantuo 49.3 MW Wind Power Project	VCUs	Verra	21 April 2021	8090-454684658-454684857-VCU-034-APX-CN-1-808-01012016-31122016-0	2016	200
Total offsets retired						2,281
Total offsets retired for CY 2021						333
Total offsets estimated to be retired for CY 2022						662
Total offsets retired for future reports						1,286

3.2 Co-benefits

150 MW grid connected Wind Power based electricity generation project in Gujarat, India.

The main purpose of the project is to generate renewable electricity using wind power and feed the generated output to the local grid in Gujarat, contributing to climate change mitigation efforts. In addition to the generation of renewable energy-based electricity, the project has also been conceived to enhance the propagation of commercialisation of wind power generation in the region and to contribute to the sustainable development of the region, socially, environmentally and economically. The proposed project activity leads to alleviation of poverty by establishing direct and indirect employment benefits accruing out of infrastructure development of wind farms, installation work, operation and management of wind farm, providing daily needs, etc. The infrastructure in and around the project area will also improve due to project activity. This includes development of road network and improvement of electricity quality, frequency and availability as the electricity is fed into a deficit grid. The generated electricity is fed into the Western regional Grid through local grid, thereby improving the grid frequency and availability of electricity to the local consumers (villagers & sub-urban habitants) which will provide new opportunities for industries and economic activities to be setup in the area thereby resulting in greater local employment, ultimately leading to overall development.

Orana Park Natural Capital Units

The Yuxian Baiyantuo 49.3 MW Wind Power Project credits are stapled with an Australian vegetation offset from Bendigo, Victoria (see project details on the following page). The project is ambitious, encompassing regenerative farming, threatened species recovery and work into bio-links.

CERTIFICATION

Orana Park

Natural Capital Units (NCU) purchased and retired for	Amount of units	Date of purchase
Smart Energy Retail Pty Ltd	200	<u>April</u> 2021

A Natural Capital Unit represents the permanent protection of one square metre of very high conservation significance native habitat



Registrar Certification



ALLOCATION REFERENCE:
VC_CFL-3071_01 VOL001-NCU-001

Orana Park

Orana Park is a 4,500ha farm northwest of Bendigo, Victoria owned and operated by the Tiverton Agriculture Impact Fund (TAIF).

TAIF's work with Orana Park will see the full restoration of riparian vegetation along the banks of the 33km Loddon river as well as a purpose-built wildlife sanctuary.

Orana Sanctuary has been built for Australian threatened species protection and breeding on 200ha of predator-proof land.

The sanctuary will become a new home for the critically endangered Eastern Bettong and Bush Stone Curlew incubation and recovery programs.

Size Hectares	4,580
Riparian Protection	33km
Biodiversity Corridors	800ha
Soil Sequestration	300,000t CO2
Threatened Species	Eastern Bettong
NCU Allocation	95,000



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NATURAL CAPITAL



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