PUBLIC DISCLOSURE STATEMENT

REDGOLD PTY. LTD.

ORGANISATION CERTIFICATION
FY2020–21

Australian Government

Climate Active
Public Disclosure Statement

An Australian Government Initiative

NAME OF CERTIFIED ENTITY	Redgold Pty. Ltd.
REPORTING PERIOD	Financial year: 1 July 2020 – 30 June 2021 Arrears report
DECLARATION	*To the best of my knowledge, the information provided in this public disclosure statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.*

Australian Government
Department of Industry, Science, Energy and Resources

Version March 2022. To be used for FY20/21/CY2021 reporting onwards.

1.CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	3,183 tCO_2-e
OFFSETS BOUGHT	100% VCUs
RENEWABLE ELECTRICITY	N/A
TECHNICAL ASSESSMENT	28/06/2021 Alden Kirkpatrick Pangolin Associates Next technical assessment due: FY2022-23 Assessment

Contents

2. CARBON NEUTRAL INFORMATION

Description of certification

This certification is for Australian operations of the organisation Redgold Pty. Ltd. (Redgold), ABN: 92 006 686 782. This includes the inputs to all products, such as seed and fertiliser, as the products and the organisational operations are inextricably linked.

Organisation description

Redgold is a family owned and operated vegetable farming enterprise, which specialises in producing leafy green vegetables for nation-wide processing and packing companies. We are based in the semi-arid region of Sunraysia, in the North West corner of Victoria, fed by the mighty Murray River.

As well as producing high quality vegetables, we are motivated to demonstrate within our industry and the agricultural sector more broadly, that pricing carbon into operations will offer opportunities and benefits for farmers; rather than the doom and gloom stories that we too often read.

It only requires a small amount of motivation and a willingness to try new things to realise that carbon pricing is the only way forward.

Effective carbon pricing allows us to visualise how our use of resources such as fuel, fertiliser, seed, chemicals and electricity will be most effectively and responsibly employed, allowing our business and the environment to remain healthy and viable long into the future.

"Redgold sees Climate Active certification as proof of concept that farmers can price carbon into their operations."

3.EMISSIONS BOUNDARY

Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

Quantified emissions have been assessed as relevant and are quantified in the carbon inventory. This may include emissions that are not identified as arising due to the operations of the certified entity, however are **optionally included**.

Non-quantified emissions have been assessed as relevant and are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

Outside the emissions boundary

Excluded emissions are those that have been assessed as not relevant to an organisation's or precinct's operations and are outside of its emissions boundary or are outside of the scope of the certification. These emissions are not part of the carbon neutral claim. Further detail is available at Appendix D.

Inside emissions boundary

Quantified

Carbon neutral products and services

Electricity

Horticulture and Agriculture

ICT services and equipment

Land and Sea Transport (fuel)

Land and Sea Transport (km)

Office equipment & supplies

Postage, courier and freight

Products

Professional Services

Refrigerants

Stationary Energy

Waste

Non-quantified

N/A

Outside emission boundary

Excluded

N/A

Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Our overall target is to halve our total emissions relative to harvested yield by 2030, using the 2019-2020 FY as our baseline. In the case of a season that has a significant market oversupply (we don't harvest all of our product and some goes to waste), we will also measure our emissions relative to our potential yield to allow us to track the efficiency of our production system.

Redgold will transition all electricity accounts to 100% GreenPower before 2023, which will eliminate all net Scope 2 emissions.

Redgold is working towards reducing on-farm diesel consumption by 30% by 2025, relative to harvested yield and the 2019-2020 base year.

Redgold plans to reduce freight related diesel consumption by 2025 by 15% relative to harvested yield and the 2019-2020 base year by sending fewer part-loads, as well as building our 'local' customer base (Victoria).

Redgold aims to be a part of the first available uptake of green hydrogen powered tractors suitable for vegetable farming. As this is dependent upon technological and market development, and will require confidence in the traceability of the hydrogen production method to ensure the source is truly green, a target date cannot be committed to at this time.

Emissions reduction actions

Commercially sensitive improvements to cover-crop management practices were implemented. As the organisation’s operations and the products produced are so closely linked, this reduced the emissions associated with this organisational certification despite our products not currently being certified under Climate Active.

5.EMISSIONS SUMMARY

Emissions over time

Emissions since base year		
		Total tCO_2-e
Base year / Year 1:	2019–20	2,801.3
Year 2:	2020–21	3,182.0

Significant changes in emissions

Emission source name	Current year (tCO_2-e and/ or activity data)	Previous year (tCO_2-e and/ or activity data)	Detailed reason for change
Electricity	609.1 tCO_2-e	496.7 tCO_2-e	Increased production
Seeds and bulbs and seedlings and cuttings	921.1 tCO_2-e	850.9 tCO_2-e	Increased production
Chemicals & fertilisers	185.0 tCO_2-e	136.5 tCO_2-e	Increased production
Road Freight (articulated truck)	308.7 tCO_2-e	189.2 tCO_2-e	Increased production
Diesel oil (Stationary Energy)	295.7 tCO_2-e	359.4 tCO_2-e	Improved crop management

Use of Climate Active carbon neutral products and services

All paper used is the Climate Active Certified Carbon Neutral Product: 'Brilliant', by Australian Paper.

This assessment and Climate Active submission was prepared with the assistance of Pangolin Associates, whose services are carbon neutral.

Organisation emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a location-based approach.

Emission category	Sum of Scope 1 (tCO_2-e)	Sum of Scope 2 (tCO_2-e)	Sum of Scope 3 (tCO_2-e)	Sum of total emissions (tCO_2-e)
Horticulture and Agriculture	0	0	1579.0	1579.0
Electricity	0	609.1*	0	609.1
Postage, courier and freight	0	0	309.1	309.1
Stationary Energy	281.8	0	14.5	296.2
Refrigerants	0	0	140.4	140.4
Products	0	0	130.9	130.9
Waste	21.3	0	35.9	57.2
Land and Sea Transport (km)	0	0	41.6	41.6
Land and Sea Transport (fuel)	12.6	0	0.7	13.2
Professional Services	0	0	2.4	2.4
ICT services and equipment	0	0	1.9	1.9
Office equipment & supplies	0	0	1.0	1.0
Carbon neutral products and services	0	0	0	0
Total	**315.7**	**609.1**	**2,257.2**	**3,182.046**

Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions, which can't be reasonably quantified or estimated. This conservative accounting approach helps ensure the integrity of the carbon neutral claim.

Reason for uplift factor	tCO_2-e
N/A	0.0
Total of all uplift factors	0.0
Total footprint to offset *(total net emissions from summary table + total uplifts)*	**3,182.046**

* The Climate Active inventory aggregates emissions for Electricity. The breakdown is: 547.7 tCO_2-e Scope 2 emissions, and 61.5 tCO_2-e Scope 3 emissions.

6. CARBON OFFSETS

Offsets retirement approach

In arrears		
1.	Total number of eligible offsets banked from last year's report	7,198
2.	Total emissions footprint to offset for this report	3,183
3.	Total eligible offsets required for this report	0
4.	Total eligible offsets purchased and retired for this report	0
5.	Total eligible offsets banked to use toward next year's report	4,015

Co-benefits

All offsets purchased were from wind power projects in India. These involved construction and ongoing operation of wind turbines. These activities generated direct and indirect employment opportunities in their respective regions. The deployment of renewable energy technologies displaces the implementation and use of more environmentally destructive fossil-fuel based technologies. In addition to the climate benefit, this also contributes to quality of life and the environment through air quality improvements – due to the lack of solid waste products (such as ash from combustion), emissions of carbon dioxide, SOx, and NOx.

Bundled Wind Power Project in Madhya Pradesh, Gujarat and Kerala by D.J. Malpani, India
This project corresponds to 33% of the total amount of offsets purchased and retired for this reporting period.

This project was delivered by Malpani Group, which has always been committed to a clean, green and healthy environment. Their work in the power generation industry covers both wind farms and solar power plants. Co-benefits are as noted above.

15 MW grid-connected wind power project by MMTC in Karnataka, India
This project corresponds to 20% of the total amount of offsets purchased and retired for this reporting period. It corresponds to 18% of the total amount of offsets purchased, retired and banked for future reporting periods.

The main purpose of the project activity is to generate electrical energy through sustainable means using wind power resources, to utilise the generated output for selling it to the State Electricity Board i.e. Hubli Electricity Supply Company (HESCOM) for meeting the energy shortages in the state and to contribute to climate change mitigation efforts. Apart from generation of renewable electricity, the project has also been conceived to contribute to the sustainable development of the region, socially, environmentally and economically:

Social well-being - The project leads to alleviation of poverty by establishing direct and indirect benefits through employment generation and improved economic activities. The infrastructure in and around the project area has also improved due to the 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.

Economic well-being – The project leads to an investment of about INR 690 million to a developing region which otherwise would not have happened in the absence of project. The generated electricity is fed into the southern regional grid through the local grid, thereby improving the grid frequency and availability of electricity to the local consumers (villagers & suburban 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.

Bundled Wind Power Project in Rajasthan by Orange Renewable Power Private Limited, India
This project corresponds to 25% of the total amount of offsets purchased and retired for this reporting period.

Orange Renewable Power Private Limited, the company implementing the project, strives to eradicate hunger, poverty and malnutrition through heath and sanitation initiatives and contribute to the UN

Sustainable Development Goals (SDGs). In addition to generating renewable energy, Orange Renewable Power is having a wider positive impact on the community. The project is improving health and sanitation by providing health care centres, an ambulance service, measures such as ante and post natal care, making safe drinking water available through bore wells, pumps and clean water storage tanks, and implementing sanitary toilet and hand washing facilities in the community. It is also improving environmental outcomes by teaching water conservation to farmers, promoting rainwater harvesting, dam maintenance, and irrigation techniques, and planting trees along roads and in public spaces. There are also economic and humanitarian benefits by providing employment for local people, implementing development programs in trades and technology, adopting strict child labour policies for the project and its supply chain, and developing awareness programs for anti-violence, gender and social equality. There are also improvements in education by providing school infrastructure, furniture, books and uniforms, implementing literacy programs for adults and providing scholarships.

150 MW grid connected Wind Power based electricity generation project in Gujarat, India
This project corresponds to 22% of the total amount of offsets purchased and retired for this reporting period. It corresponds to 82% of the total amount of offsets purchased, retired and banked for future reporting periods.

They promote rural development through fodder cultivation to feed animals, integrated livestock development (artificial Insemination), shade nets to cover vegetable crops, and youth training and skill development. They also promote improvements in health with a project to enhance access to preventative healthcare and early diagnosis and intervention for the population in the Gujarat region, and by upskilling healthcare volunteers

Eligible offsets retirement summary

Offsets cancelled for Climate Active Carbon Neutral Certification											
Project description	**Type of offset units**	**Registry**	**Date retired**	**Serial number (and hyperlink to registry transaction record)**	**Vintage**	**Stapled quantity**	**Eligible quantity (tCO_2-e)**	**Eligible quantity used for previous reporting periods**	**Eligible quantity banked for future reporting periods**	**Eligible quantity used for this reporting period**	**Percentage of total (%)**
Bundled Wind Power Project in Madhya Pradesh, Gujarat and Kerala by D.J. Malpani, India	VCUs	Verra	20 Sep 2021	7045-366194268-366195310-VCU-034-APX-IN-1-1679-28032016-31122016-0	2016	0	1,043	0	0	1,043	33%
15 MW grid-connected wind power project by MMTC in Karnataka, India	VCUs	Verra	20 Sep 2021	6591-326740328-326741681-VCU-034-APX-IN-1-133-01012015-31122015-0	2015	0	1,354	0	724	630	20%
Bundled Wind Power Project in Rajasthan by Orange Renewable Power Private Limited, India	VCUs	Verra	20 Sep 2021	7365-386894209-386895009-VCU-034-APX-IN-1-1465-01012019-30042019-0	2019	0	801	0	0	801	25%
150 MW grid connected Wind Power based electricity generation project in Gujarat, India	VCUs	Verra	22 Sep 2021	9088-67163241-67166531-VCS-VCU-1491-VER-IN-1-292-18062016-31122016-0	2016	0	3,291	0	3,291	0	0%

150 MW grid connected Wind Power based electricity generation project in Gujarat, India	VCUs	Verra	22 Sep 2021	8946-54822848-54823391-VCS-VCU-1491-VER-IN-1-292-18062016-31122016-0	2016	0	544	0	0	544	17%
150 MW grid connected Wind Power based electricity generation project in Gujarat, India	VCUs	Verra	22 Sep 2021	9088-67291367-67291531-VCS-VCU-1491-VER-IN-1-292-18062016-31122016-0	2016	0	165	0	0	165	5%
									Total offsets retired this report and used in this report	3,183	
									Total offsets retired this report and banked for future reports	4,015	

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Verified Carbon Units (VCUs)	3,183	100%

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

The following RECs have been surrendered to reduce electricity emissions under the market-based reporting method.

1. Large-scale Generation certificates (LGCs)*	0
2. Other RECs	0

* LGCs in this table only include those surrendered voluntarily (including through PPA arrangements), and does not include those surrendered in relation to the LRET, GreenPower, and jurisdictional renewables.

Project supported by LGC purchase	Eligible units	Registry	Surrender date	Accreditation code (LGCs)	Certificate serial number	Generation year	Quantity (MWh)	Fuel source	Location
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
						Total LGCs surrendered this report and used in this report	0		

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a location-based approach.

Location-based method

The location-based method provides a picture of a business's 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. The location-based method does not allow for any claims of renewable electricity from grid-imported electricity usage.

Market-based method

The market-based method provides a picture of a business's electricity emissions in the context of its renewable energy investments. It reflects the emissions intensity of different electricity products, markets and investments. It uses a residual mix factor (RMF) to allow for unique claims on the zero emissions attribute of renewables without double-counting.

Market Based Approach Summary

Market Based Approach	Activity Data (kWh)	Emissions (kgCO2e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	38,864	0	7%
Total non-grid electricity	**38,864**	**0**	**7%**
LGC Purchased and retired (kWh) (including PPAs & Precinct LGCs)	0	0	0
GreenPower	0	0	0
Jurisdictional renewables (LGCs retired)	0	0	0
Jurisdictional renewables (LRET) (applied to ACT grid electricity)	0	0	0
Large Scale Renewable Energy Target (applied to grid electricity only)	105,762	0	18%
Residual Electricity	453,087	486,199	0
Total grid electricity	**558,850**	**486,199**	**18%**
Total Electricity Consumed (grid + non grid)	**597,714**	**486,199**	**24%**
Electricity renewables	144,626	0	
Residual Electricity	453,087	486,199	
Exported on-site generated electricity	**11,612**	**-9,057**	
Emissions (kgCO2e)		477,142	

Total renewables (grid and non-grid)	**24.2%**
Mandatory	**17.7%**
Voluntary	**0%**
Behind the meter	**6.5%**
Residual Electricity Emission Footprint (TCO2e)	**477**

Figures may not sum due to rounding. Renewable percentage can be above 100%

Location Based Approach Summary

Location Based Approach	Activity Data (kWh)	Scope 2 Emissions (kgCO2e)	Scope 3 Emissions (kgCO2e)
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	558,850	547,673	61,473
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Grid electricity (scope 2 and 3)	**558,850**	**547,673**	**61,473**
ACT	0	0	0
NSW	0	0	0
SA	0	0	0
Vic	38,864	0	0
Qld	0	0	0
NT	0	0	0
WA	0	0	0
Tas	0	0	0
Non-grid electricity (Behind the meter)	**38,864**	**0**	**0**
Total Electricity Consumed	**597,714**	**547,673**	**61,473**

Emission Footprint (TCO2e)	**609**
Scope 2 Emissions (TCO2e)	548
Scope 3 Emissions (TCO2e)	61

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO2e)
N/A	**0**	**0**

Climate Active carbon neutral electricity is not renewable electricity. The emissions have been offset by another Climate Active member through their Product certification.

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

The following sources emissions have been assessed as relevant, are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. These emissions are accounted for through an uplift factor. They have been non-quantified due to one of the following reasons:

1. **Immaterial** <1% for individual items and no more than 5% collectively
2. **Cost effective** Quantification is not cost effective relative to the size of the emission but uplift applied.
3. **Data unavailable** Data is unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.
4. **Maintenance** Initial emissions non-quantified but repairs and replacements quantified.

Relevant-non-quantified emission sources	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
N/A	N/A	N/A	N/A	N/A

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

The below emission sources have been assessed as not relevant to an organisation's or precinct's operations and are outside of its emissions boundary. These emissions are not part of the carbon neutral claim. Emission sources considered for relevance must be included within the certification boundary if they meet two of the five relevance criteria. Those which only meet one condition of the relevance test can be excluded from the certification boundary.

Emissions tested for relevance are detailed below against each of the following criteria:

1. **Size** The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions
2. **Influence** The responsible entity has the potential to influence the reduction of emissions from a particular source.
3. **Risk** The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.
4. **Stakeholders** Key stakeholders deem the emissions from a particular source are relevant.
5. **Outsourcing** The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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