



PUBLIC DISCLOSURE STATEMENT

RED ROCK DRILLING PTY LTD

ORGANISATION CERTIFICATION

CY2020

Australian Government
Climate Active
Public Disclosure Statement



An Australian Government Initiative



NAME OF CERTIFIED ENTITY: Red Rock Drilling Pty Ltd

REPORTING PERIOD: 1 January 2020 – 31 December 2020

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.

Signature

Date: 28/05/2021

Johnathan Taitt

Director



Australian Government
**Department of Industry, Science,
Energy and Resources**

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Version number February 2021



1. CARBON NEUTRAL INFORMATION

Description of certification

Red Rock Drilling Pty Ltd is a certified carbon neutral organisation for its Australian business operations, ABN 40 169 505 800.

Organisation description

Red Rock Drilling is a drilling contractor (reverse circulation) providing drilling services to exploration and mining companies. The company owns an office building and yard at 35 Vivian Street, Boulder, WA. The company also owns a caravan, a drill rig suite and transport vehicles.

Our operations require us to mobilise to client project areas (remote areas of Australia), set up camp and undertake a drill program which can vary in size (depth and breadth). This operation can be sustained over a period of days or months requiring logistics such as men, equipment, drilling supplies and fuel to be transported to site in the most efficient way possible so as not to disturb the drilling operation.

Once the drill program has been completed, camp and the equipment are cleaned, packed up and mobilised to the next drilling contract. This is the nature of the business.

The operational boundary of the carbon inventory includes Scope 1, 2 and 3 emissions of the Australian operations and has been prepared in accordance with Climate Active's standard small organisation boundary and scope.

The inventory considers and quantifies carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O) emissions, measured in tonnes CO₂-e. We are not aware of any relevant sources of hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF₆), or nitrogen trifluoride (NF₃) within the operational boundary.

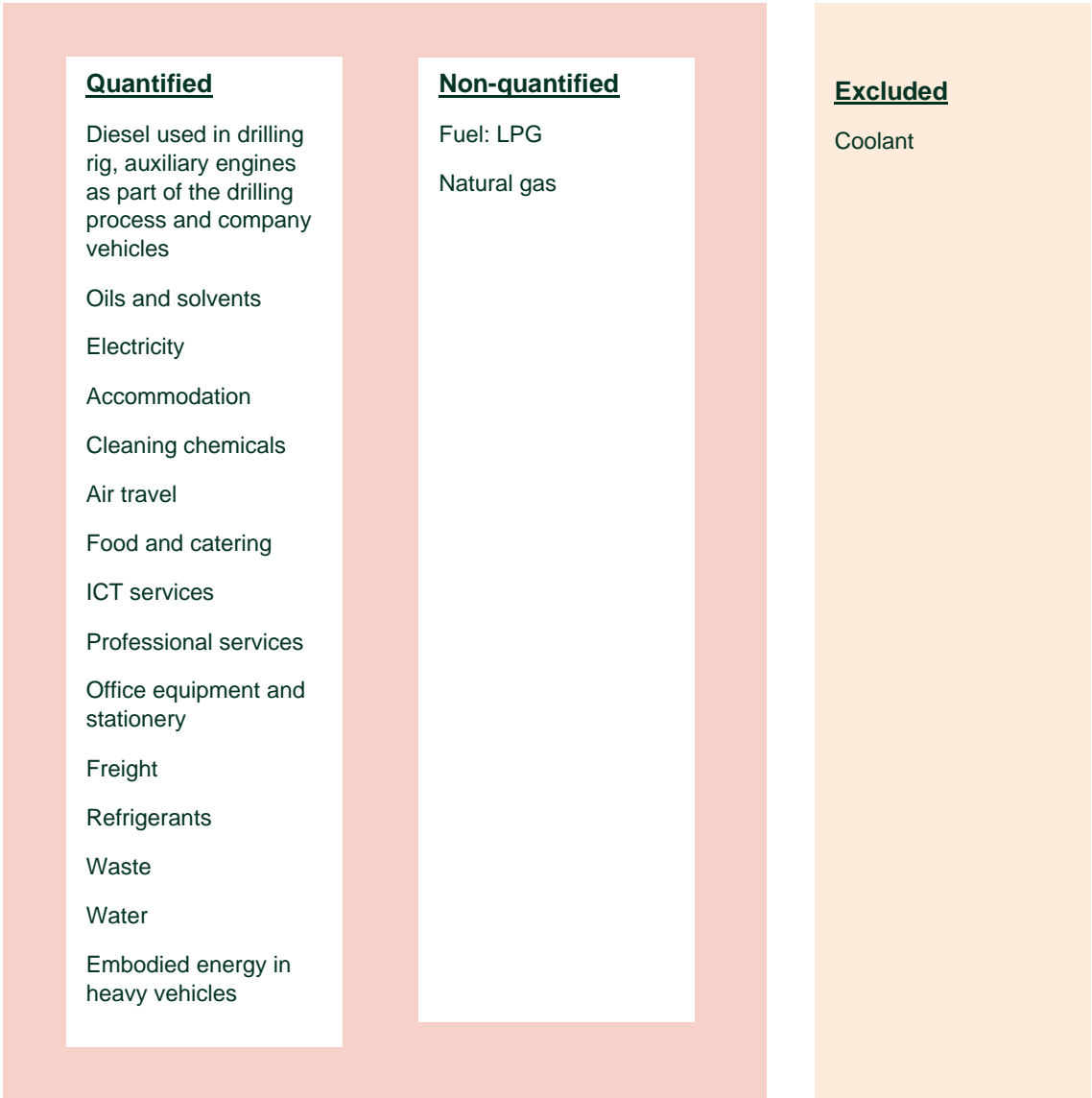
“Climate Active is an excellent initiative which supports and guides us in our vision to become and remain Carbon Neutral.”

2. EMISSION BOUNDARY

Diagram of the certification boundary

This inventory has been prepared based on the operational control approach.

This is a small organisation certification, which uses the standard Climate Active small organisation emissions boundary.



Non-quantified sources

LPG and natural gas have not been quantified in the inventory as the data is unavailable and immaterial. LPG is used in very small quantities and only changed out twice a year. Natural gas is used for camp cooking and in the forklift and is minimal.

The mandatory small organisation uplift factor of 5% has been applied to the inventory to account for these immaterial items.

Data management plan

Consumption of LPG and natural gas will be recorded.

Excluded sources (outside of certification boundary)

Emission source coolant has been excluded as it has been assessed as not relevant according to the relevance test.

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3. EMISSIONS SUMMARY

Emissions reduction strategy

Red Rock Drilling commits to reduce emissions by 50% over the next 10 years, compared to the 2019 baseline.

This will include the following actions:

Scope 1 emissions will be reduced by:

- Use of biodiesel (when available) which will replace 100% of regular diesel by 2030.
- Installation of Diesel Oxidisation Catalysts (DOC) which are designed to remove high levels of direct and indirect the greenhouse gases Carbon Monoxide (CO) and Hydrocarbons (HC), small amounts of Nitrous Oxide (NOX) and some particulate matter (PM) from Diesel Exhaust engines.

Scope 2 emissions will be reduced by the:

- Installation of LED lights in all office buildings by 2022.
- Installation of battery storage by 2024.
- Installation of solar heating for hot water by 2024.

Scope 3 emissions will be reduced by:

- Waste streaming towards a recycling rate of 25% of the overall waste production by 2025.
- Replacement of engine oils with Climate Active certified products (when available).

Table 1

Emissions since base year	Total tCO2e		
	Scope 1	Scope 2	Scope 3
Base year: CY2019	418.0	2.8	82.4
Current year 1: CY2020	457.8	6.7	125.5

Emissions over time

Emissions have increased compared to the base year. This increase is mainly due to organic growth of the company and increased drilling activities in 2020. Accordingly, fuel and electricity emissions have increased by 15% and 144% respectively. Emissions for food and catering increased by 60%. As more time was spent on-site, there has been less air travel – a 55% reduction in flight distance.

Due to changes made by Climate Active to the inventory, emission sources that were previously included as separate uplifts are now included within the inventory. This includes food and catering, oils and lubricants and embodied energy from heavy vehicles. These items are using similar emission factors as for the previous year and as a result have not contributed to a material change in the total emissions.

Table 2

Emissions since base year		
	Base year: 2019	Current year Year 1: 2020
<i>Total tCO2e</i>	527.2	619.5

Emissions reduction actions

We have undertaken the following emissions reduction initiatives this year:

- Municipal water consumption was reduced by 22% through using more on-site bore water.
- 6.3 kW solar panels were installed in April 2021 to reduce grid electricity consumption. The effects will be reflected in the next certification period.
- All engine oils were sourced from Fuchs which claims global carbon neutrality. Although this claim adheres to the GHG protocol it is not eligible as a carbon neutral product under Climate Active. If possible, these products will be sourced using Climate Active certified products.

Emissions summary (inventory)

Table 3

Emission source category	tonnes CO ₂ -e
Air transport	2.111
Chemicals	0.054
Electricity (location based)	6.726
Embodied energy in heavy vehicles	11.227
Food and catering	11.172
Land transport – diesel fuel	479.166
Machinery – lubricants and oils	2.485
Postage, courier and freight	0.120
Office equipment and stationery (none used this year)	0.000
Waste to landfill	76.800
Water	0.163
<i>Total Net Emissions</i>	590.024

Uplift factors

Table 4

Reason for uplift factor	tonnes CO ₂ -e
5% to account for immaterial items	29.501
<i>Total footprint to offset (uplift factors + net emissions)</i>	619.525

Carbon neutral products

Copy paper: Office National Carbon Neutral Copy Paper (an Australian Paper product)

Electricity summary

Electricity was calculated using the location-based approach.

Table 5: Market-based approach summary

Market-based approach	Activity Data (kWh)	Emissions (kgCO ₂ e)	Renewable %
Behind the meter consumption of electricity generated	0	0	0.0%
Total non-grid electricity	0	0	0.0%
LGC Purchased and retired (kWh) (including PPAs)	0	0	0.0%
GreenPower	0	0	0.0%
Jurisdictional renewables	0	0	0.0%
Residual Electricity	7,753	8,323	0.0%
Large Scale Renewable Energy Target (applied to grid electricity only)	1,855	0	19.0%
Total grid electricity	9,608	8,323	19.0%
Total Electricity Consumed (grid + non grid)	9,608	8,323	19.0%
Electricity renewables	1,855	0	
Residual Electricity	7,753	8,323	
Exported on-site generated electricity	0	0	
Emission Footprint (kgCO ₂ e)		8,323	

Emission Footprint (TCO₂e)	8
LRET renewables	19.31%
Voluntary Renewable Electricity	0.0%
Total renewables	19.31%

Table 6: Location-based approach summary

Location-based approach	Activity Data (kWh)	Emissions (kgCO ₂ e)
WA	9,608	6,726
Grid electricity (scope 2 and 3)	9,608	6,726
WA	0	0
Non-grid electricity (Behind the meter)	0	0
Total Electricity Consumed	9,608	6,726

Emission Footprint (TCO₂e)	7
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4. CARBON OFFSETS

Offsets strategy – in arrears

Table 7

Offset purchasing strategy:	
In arrears	
1. Total offsets previously forward purchased and banked for this report	3
2. Total emissions liability to offset for this report	620
3. Net offset balance for this reporting period	617
4. Total offsets to be forward purchased to offset the next reporting period	0
5. Total offsets required for this report	617

Co-benefits

The Chekala Wind Power offsets provide the following co-benefits:

Social wellbeing: This project introduces new local infrastructure such as roads and improved power generation. 2% of the carbon revenues go towards the development of public amenities in the surrounding areas such as water distribution, sanitation, building of schools and hospitals, free books and uniforms and annual eye checks for villagers.

Economic wellbeing: This project generates renewable zero emissions power which would not have occurred without the VCS offsets program. The project helps to meet demand for energy in the region and its success will help to attract further investment to the region.

Environmental wellbeing: This project reduces the dependence on fossil fuels and conserves natural resources that are on the verge of depletion. The generation of energy via wind power helps to reduce greenhouse gas emissions in the region.

Offsets summary

Proof of cancellation of offset units

Table 8:

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	Eligible Quantity (tCO ₂ -e)	Quantity used for previous reporting periods	Quantity banked for future reporting periods	Quantity used for this reporting period claim	Percentage of total (%)
Chakala Wind Power Project in Maharashtra, India	VCS-VCU	VERRA	5 June 2020	7068-368126904-368127433-VCU-034-APX-IN-1-1197-01012016-31122016-0	2016	530	527	0	3	0.5%
Chakala Wind Power Project in Maharashtra, India	VCS-VCU	VERRA	25 May 2021	7068-368154392-368155008-VCU-034-APX-IN-1-1197-01012016-31122016-0	2016	617	0	0	617	99.5%
Total offsets retired this report and used in this report								620 tCO ₂ -e		
Total offsets retired this report and banked for future reports								0 tCO ₂ -e		

Type of offset units	Quantity (used for this reporting period claim)	Percentage of Total
Verified Carbon Units (VCUs)	620 tCO ₂ -e	100%

5. USE OF TRADE MARK

Table 9

Description where trademark used	Logo type
Website	Certified organisation
Email signatures and correspondence	Certified organisation
Company vehicles	Certified organisation
Company clothing (T-Shirts)	Certified organisation

APPENDIX 1

Excluded emissions

To be deemed relevant an emission must meet two of the five relevance criteria. Excluded emissions are detailed below against each of the five criteria.

Table 10

Relevance test					
Excluded emission sources	<i>The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions</i>	<i>The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.</i>	<i>Key stakeholders deem the emissions from a particular source are relevant.</i>	<i>The responsible entity has the potential to influence the reduction of emissions from a particular source.</i>	<i>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.</i>
Coolant	No	No	No	No	No

APPENDIX 2

Non-quantified emissions for organisations

Table 11

Non-quantification test				
Relevant-non-quantified emission sources	<i>Immaterial <1% for individual items and no more than 5% collectively</i>	<i>Quantification is not cost effective relative to the size of the emissions but uplift applied.</i>	<i>Data unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.</i>	<i>Initial emissions non-quantified but repairs and replacements quantified</i>
Fuel: LPG	Yes	No	No	No
Natural gas	Yes	No	No	No



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