



PUBLIC DISCLOSURE STATEMENT


ARK RESOURCES PTY LTD

SMALL ORGANISATION CERTIFICATION

FY2021–22

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY	Ark Resources Pty Ltd
REPORTING PERIOD	1 July 2021 – 30 June 2022 Arrears report
DECLARATION	<p><i>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.</i></p>  <p>Jan Talacko Director 18 October 2022</p>



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

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



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	9.16 tCO ₂ -e
OFFSETS BOUGHT	100% ACCUs
RENEWABLE ELECTRICITY	90%

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2. CARBON NEUTRAL INFORMATION

Description of certification

The certification is for the Australian business operations of Ark Resources Pty Ltd, ABN: 29 086 461 369. The base year and first year of certification was FY2019-20, this certification is for FY2021-22.

The operational boundary has been defined based on an operational control test, in accordance with the principles of the National Greenhouse and Energy Reporting Act 2007.

The methods used for collating data, performing calculations and presenting the carbon account are in accordance with the following standards:

- Climate Active Standards
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
- National Greenhouse and Energy Reporting (Measurement) Determination 2008.

Where possible, the calculation methodologies and emission factors used in this inventory are derived from the National Greenhouse Accounts (NGA) Factors in accordance with "Method 1" from the National Greenhouse and Energy Reporting (Measurement) Determination 2008.

The greenhouse gases considered within the inventory are those that are commonly reported under the Kyoto Protocol; carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). These have been expressed as carbon dioxide equivalents (CO₂-e) using relative global warming potentials (GWPs).

“Ark Resources was established to tackle climate change: we are proud to be recognised as a carbon neutral business – it’s in our DNA!”

Organisation description

Ark Resources has been at the forefront of environmentally sustainable design since being established in 1999. We have extensive experience in all building types and have provided advice for buildings and developments of every scale, ranging from individual houses to several of Melbourne's most significant residential and commercial projects.

We provide sustainability input at all stages of the property development cycle from concept design, through planning application, design development, construction, commissioning and post-occupancy.

We have expertise in the development of ESD frameworks and policies and have developed several highly regarded sustainability rating tools for all levels of Government.

The wide-ranging professional services we offer reflect the diverse skills and experience of our team and the constantly evolving challenges of the built environment.

Our services include:

- Sustainability Management Plans (SMPs)
- Rating tools: Green Star, BESS, NABERS, WELL, PassivHaus, Living Building Challenge, EnviroDevelopment.
- Carbon neutral certification
- Daylight modelling
- National Construction Code (BCA) energy efficiency (NatHERS)
- Water sensitive urban design (WSUD)
- Renewable Energy Systems
- Energy Efficiency
- Expert ESD evidence and advocacy services (including VCAT & Planning Panels)
- Strategic input into regulatory and best-practice policies
- Workshop facilitation

Our office is located at Suite 8, 10 Northumberland Street South Melbourne, Victoria 3205 and in FY2021-22, we expanded into the neighbouring Suite 6 to accommodate the growth of our business and additional staff.

3. EMISSIONS BOUNDARY

This is a small organisation certification, which uses the standard Climate Active small organisation emissions boundary. Emission sources can be excluded if they do not occur.

Inside the emissions boundary

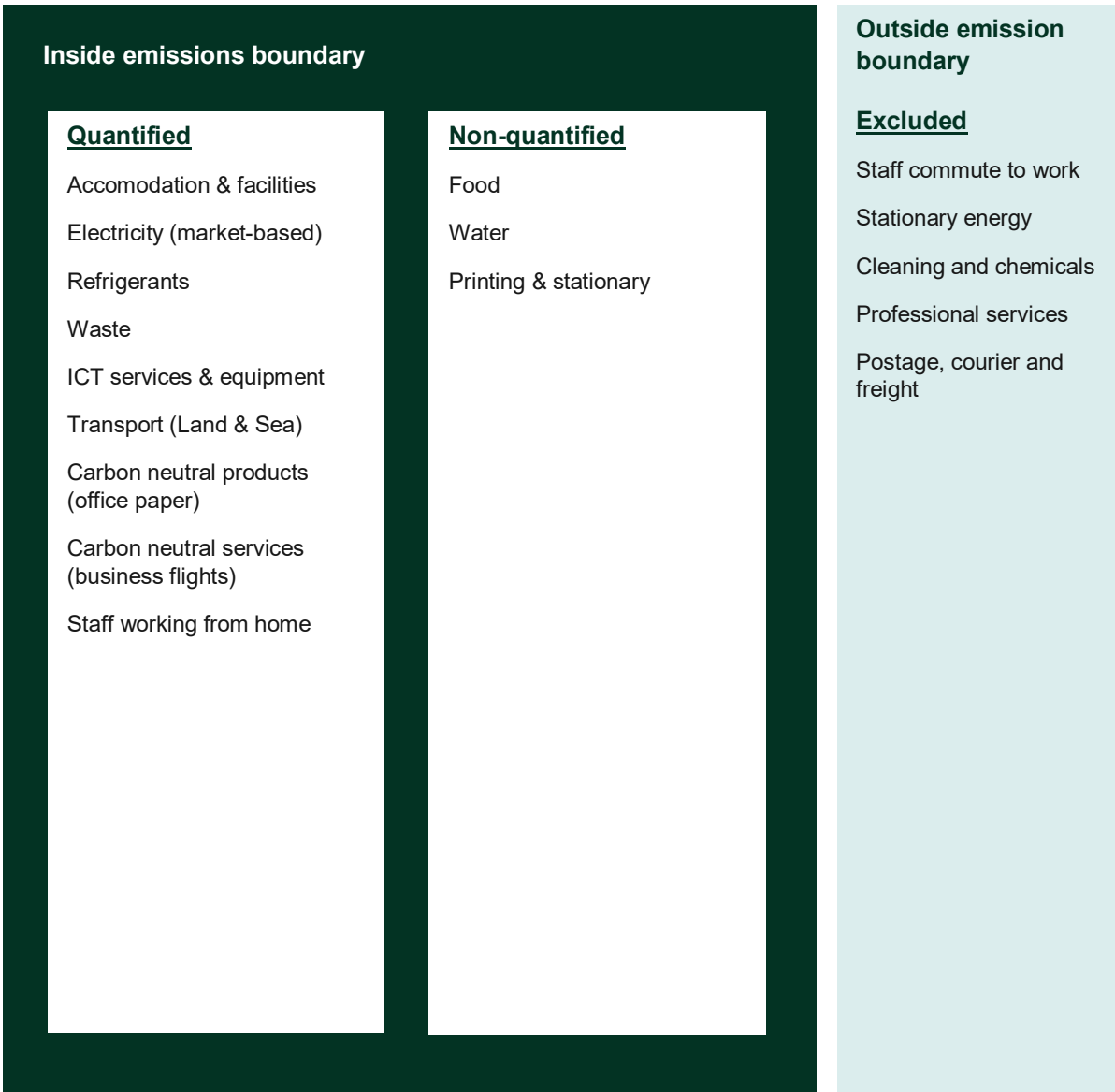
All emission sources listed in the emissions boundary are part of the carbon neutral claim.

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.



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

Whilst we have reduced our emissions significantly in comparison to our base year (by approximately 58%), it is our aim to prevent emissions from rising wherever possible. In order to achieve this goal we have and will continue to implement the following:

- Continue to purchase 100% GreenPower for our electricity accounts (this includes the account associated with the space we were previously sub-leasing, as at the beginning of FY2022-23 to took over the lease of that space).
- Attend meetings via video conferencing when possible, thereby reducing emissions associated with travel and when unavoidable – offset business flights at point of purchase.
- Only printing when needed, and continue to purchase certified carbon neutral paper.
- Offset business flights at point of purchase.

Although we have already significantly reduced our emissions, through continuing the above emissions reduction strategy we are committed to reducing our emissions by at least 50% (compared to our FY2019-20 base year by 2025 and will continue to re-evaluate moving forward.

Emissions reduction actions

- Purchased 100% Green Power on our electricity account.
- Reduced travel and attended meetings via videoconference where possible.
- Reduced costs associated with office phone and internet services.
- Offset business flights at point of purchase.

5. EMISSIONS SUMMARY

Emissions over time

Emissions since base year		Total tCO ₂ -e
Base Year/Year 1	FY 2019-20 (Previously Reported)	15.36
Base Year/Year 1	FY 2019-20 (Revised to include WFH)	17.39
Year 2	FY 2020-21 (Previously Reported)	5.43
Year 2	FY 2020-21 (Revised to include WFH)	9.10
Year 3	FY 2021-22	9.16

Significant changes in emissions

Emission source name	Current year (tCO ₂ -e)	Previous year (tCO ₂ -e)	Detailed reason for change
Electricity	0.87	0.02	Organic growth
ICT services and equipment	0.70	0.82	Reduced costs
Transport (Land & Sea)	3.58	3.40	Increased fuel cost
Working from home	2.55	3.49	Staff returning to working in the office

Use of Climate Active carbon neutral products and services

- Carbon neutral office paper (Reflex)
- Carbon neutral business flights (Virgin Australia)

Organisation emissions summary

The electricity summary is available in the Appendix B. Electricity emissions were calculated using a market-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)
Accommodation and facilities	0.00	0.00	0.10	0.10
Carbon neutral products and services	0.00	0.00	0.00	0.00
Electricity (market-based)	0.00	0.87	0.00	0.87
ICT services & equipment	0.00	0.00	0.70	0.70
Transport (Land and Sea)	3.36	0.00	0.22	3.58
Refrigerants	0.51	0.00	0.00	0.51
Waste	0.00	0.00	0.42	0.42
Working from home	0.00	0.00	2.55	2.55
Total	3.86	0.87	3.99	8.72

*Note that due to an appropriate calculator not being available for our FY2019-20 base year, and a subsequent administrative oversight in our FY2020-21 disclosure, we inadvertently excluded emissions arising from staff working from home. We have now calculated the additional emissions arising from this source for both years below:

- FY2019-20: 1.94 tCO₂-e
- FY2020-21: 3.49 tCO₂-e

In order to ensure the integrity of claims for the FY2019-20 and FY2020-21 periods, we have purchased an additional 6 carbon credits to cover this adjustment.

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
Compulsory additional 5% of the total to be added for small organisations	0.44
Total of all uplift factors	0.44
Total footprint to offset <i>(total net emissions from summary table + total uplifts)</i>	9.16

6. CARBON OFFSETS

Offsets retirement approach

In arrears	
1. Total number of eligible offsets banked from last year's report	0
2. Total emissions footprint to offset for this report	9.16
3. Total eligible offsets required for this report	10
4. Total eligible offsets purchased and retired for this report	16
5. Total eligible offsets banked to use toward next year's report	0

Co-benefits

Some of the co-benefits associated with the Fish River Station Fire Management project are as follows:

- Employment opportunities for the local Indigenous community.
- In 2019, the work of the rangers resulted in the containing the spread of a fire to an area of just 15km².
- Habitat protection of threatened species including the northern quoll and black-footed tree rat.

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 (%)
Fish River Fire Project	ACCUs	ANREU	3 Oct 2022	8,330,786,827 – 8,330,786,833	2021-22	0	7	0	0	7	43.75%
Fish River Fire Project	ACCUs	ANREU	17 Oct 2022	8,330,786,895 – 8,330,786,897	2021-22	0	3	0	0	3	18.75%
Fish River Fire Project	ACCUs	ANREU	17 Oct 2022	8,330,786,898 – 8,330,786,901	2021-22	0	4	4	0	0	25.00%
Fish River Fire Project	ACCUs	ANREU	17 Oct 2022	8,330,786,902 – 8,330,786,903	2021-22	0	2	2	0	0	12.50%
Total offsets retired this report and used in this report										16	
Total offsets retired this report and banked for future reports									0		
Type of offset units		Quantity (used for this reporting period claim)				Percentage of total					
Australian Carbon Credit Units (ACCUs)		10				100%					
Type of offset units		Additional quantity (used for FY20 & FY21 reporting periods claim adjustments)				Percentage of total					
Australian Carbon Credit Units (ACCUs)		6				100%					

An additional 2 credits have been purchased to cover working from home emissions in FY2020, and an additional 4 credits have been purchased to cover working from home emissions in FY2021.

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)*	N/A
2. Other RECs	N/A

* 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
-	-	-	-	-	-	-	-	-	-
Total LGCs surrendered this report and used in this report							-	-	-

APPENDIX A: ADDITIONAL INFORMATION

At Ark Resources, we are actively working with our clients and partners in the construction sector towards the goal of achieving carbon neutrality.

To demonstrate our commitment to tackling ESD & ESG issues we have become CitySwitch Green Office signatories, we've taken Victoria's climate change pledge and become a TAKE2 member and we've joined with other engineers to declare a Climate and Biodiversity Emergency.

We are also working towards becoming a Certified B Corp in the future.

Ark Resources is Carbon Neutral



APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a market-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 (kgCO ₂ e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	0	0	0%
Total non-grid electricity	0	0	0%
LGC Purchased and retired (kWh) (including PPAs & Precinct LGCs)	0	0	0%
GreenPower	6,254	0	71%
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)	1,628	0	19%
Residual Electricity	874	870	0%
Total grid electricity	8,756	870	90%
Total Electricity Consumed (grid + non grid)	8,756	870	90%
Electricity renewables	7,882	0	
Residual Electricity	874	870	
Exported on-site generated electricity	0	0	
Emissions (kgCO ₂ e)		870	
Total renewables (grid and non-grid)	90.02%		
Mandatory	18.59%		
Voluntary	71.43%		
Behind the meter	0.00%		
Residual Electricity Emission Footprint (TCO₂e)	1		

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 (kgCO ₂ e)	Scope 3 Emissions (kgCO ₂ e)
VIC	8,756	0	0
Grid electricity (scope 2 and 3)	8,756	7,968	876
VIC	0	0	0
Non-grid electricity (Behind the meter)	0	0	0
Total Electricity Consumed	8,756	7,968	876

Emission Footprint (TCO₂e)	9
<i>Scope 2 Emissions (TCO₂e)</i>	8
<i>Scope 3 Emissions (TCO₂e)</i>	1

Climate Active Carbon Neutral Electricity summary

Carbon Neutral electricity offset by Climate Active Product	Activity Data (kWh)	Emissions (kgCO ₂ e)
N/A	-	-

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

Note: Ark Resources previously reported electricity consumption for our base year under the location-based approach, however due to the recent change in rules regarding how Green Power can be reported we will be using the market-based approach from this point onward.

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
Food	Yes	No	No	No
Water	Yes	No	No	No
Printing & stationary	Yes	No	No	No

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.

Justifications for exclusions are outlined below:

- Staff commute to work has been excluded as it has been assessed as not relevant according to the relevance test.
- Although stationary energy, cleaning and chemicals, professional services and postage, courier & freight are deemed relevant emissions sources under the small organisation certification, we did not use or purchase them in the FY2021-22 period and as such they have not been included in the PDS or carbon inventory.

Emission sources tested for relevance	(1) Size	(2) Influence	(3) Risk	(4) Stakeholders	(5) Outsourcing	Included in boundary?
Staff commute to work	No	No	No	No	No	No



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