



PUBLIC DISCLOSURE STATEMENT

SOLARBUDDY.ORG LTD

**ORGANISATION CERTIFICATION
FY2020-21**

Australian Government

Climate Active Public Disclosure Statement




NAME OF CERTIFIED ENTITY: SOLARBUDDY.ORG LTD

REPORTING PERIOD: 1 July 2020 – 30 June 2021

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 15 October 2021
Name of Signatory: Simon Doble	
Position of Signatory: Founder and Global CEO	



Australian Government

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

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Version number February 2021

1. CARBON NEUTRAL INFORMATION

Description of certification

The certification includes all operations within Australia over which SolarBuddy (ABN 56 612 567 825) has operational control.

The emission inventory in this public disclosure summary covers the 1 July 2020 – 30 June 2021 reporting period and has been developed in accordance with The Climate Active Carbon Neutral Standard for Organisation (Organisation Standard).

SolarBuddy's operational boundary has been defined based on the principles of the *National Greenhouse and Energy Reporting Act 2007*. This includes all locations occupied by SolarBuddy employees including the Brisbane office and those remotely located.

The methods used for collecting data, calculating emissions, and presenting the carbon account are in accordance with:

- The Climate Active Carbon Neutral Standard for Organisation (Organisation Standard);
- The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (revised Edition);
- National Greenhouse and Energy Reporting (Measurement) Determination 2008; and
- Inventory templates and calculators provided by Climate Active which include considerations of the Kyoto Protocol.

SolarBuddy is an impact organisation, an innovator with a clear purpose to create a more equitable, just and sustainable world.

Organisation Description

SolarBuddy.org Ltd ('SolarBuddy') is an impact organisation and a registered Australian DGR Type 1 charity uniting a global community to illuminate the futures of all children.

Illuminating the futures of all children is as hard as it sounds. One of the biggest obstacles we face is extreme energy poverty. It is a complex challenge, impacting the health and well-being, educational outcomes, and economic stability of the communities experiencing it as well as our environment.

But we are motivated by big challenges, and the impact we can make by focusing on our three core principles: education, sustainable innovation, and connected communities.

Education is core to the solution. It helps to build local awareness and understanding of extreme energy poverty, creates better global citizens, and is the most important factor in creating equitable opportunities for a child.

Sustainable innovation shapes our solutions. We design with people as our focus, ensuring that everything we create is simple, socially impactful, environmentally sustainable and makes a difference for a decade not a day.

Connected communities are joined at the heart and united by need. When we share ownership of the problem, we lighten the load. The more hearts who join us, through donations, support and advocacy, the more positive outcomes we can create.

We will never stop creating new ways to fight this challenge. We see a brighter future for all children, and by learning, creating, and working together we light the way there.

In our mission to end extreme energy poverty and within our Climate Action Plan 2030, SolarBuddy is

dedicated to both social and environmental justice, including being a carbon neutral business, a thought leader and driver of the circular economy, an innovator with a clear focus on sustainability and aligning all our work to the achievement of the United Nations Sustainable Development Goals.

Purpose of this report

This public disclosure statement (**PDS**) supports the certification of the SolarBuddy organisation as carbon neutral, under the 'Climate Active Carbon Neutral Standard' (the Standard) small organisation requirements. This includes quantification of Scope 1, 2, and 3 emissions boundaries. SolarBuddy's Greenhouse Gas (GHG) Inventory uses an 'operational control' approach.

2. EMISSION BOUNDARY

Diagram of the certification boundary

SolarBuddy is seeking a small organisation certification and has used the Climate Active ‘small organisation’ emissions boundary. This includes the following emissions sources:

- direct Scope 1;
- indirect Scope 2; and
- local Scope 3 that are deemed relevant by the relevance test.

A diagrammatic version of the emissions boundary has been attached in Appendix 1.

<u>Quantified</u>	<u>Non-quantified</u>	<u>Excluded</u>
Stationary energy	Refrigerants	Carbon neutral products and services
Electricity	Office equipment and supplies	International offices
Accommodation		End-of-life treatment for sold products
Air Transport		
Cleaning and Chemicals		
Food		
Land and sea transport		
Freight		
Professional Services		
ICT services and equipment		
Waste		
Water		
Staff commute to work		
Remote working		
Paper consumption		
Business travel in personal vehicles		

Excluded sources (outside of certification boundary)

The following mandatory emission sources have been excluded as they do not occur (Appendix 2).

- **Carbon neutral products and services** – Whilst SolarBuddy has endeavoured to utilise carbon neutral products and services, these are not Climate Active certified and as such have not been included in the PDS or carbon inventory.

The following emission sources have been excluded in line with the relevance test (Appendix 2).

- **End-of-life treatment for sold products** – Emissions from the “end-of-life treatment for sold products” has been excluded as it has been assessed as not relevant according to the relevance test.
- **International offices** – Emissions from “international offices” has been excluded as it has been assessed as not relevant according to the relevance test.

Non-quantified sources

The following mandatory emission sources are non-quantified (Appendix 3):

- **Refrigerants** – The Brisbane Office has one small refrigerator and two small air-conditioning units that are used infrequently. Consequently, this emission source has been assessed as immaterial.
- **Office equipment and supplies** – The Brisbane Office has purchased a very limited number of ‘office equipment and supplies’ that are not already included as ‘paper consumption’ or ‘ICT equipment’. Consequently, this emission source has been assessed as immaterial.

3. EMISSIONS SUMMARY

Emissions reduction strategy

Since initial registration as an Australian charity in May 2016, SolarBuddy has placed sustainable practices firmly as a key priority. The very core of SolarBuddy purpose is to gift innovative renewable energy products to children living in extreme energy poverty. These products enable the removal of highly toxic and polluting alternative energy sources such as kerosene lamps and the burning of biomass such as coal and wood.

Delivering all we do in a framework of sustainability is a published guiding principle at Solar Buddy. Additionally, our Climate Action Plan includes emission reduction initiatives.

As a young organisation with a highly successful model, SolarBuddy is forecasting significant growth and with this, SolarBuddy is determined to be a force in global sustainability.

In line with our intention to champion sustainability whilst in an environment of significant growth, SolarBuddy will initially focus on emission reduction from our primary source: freight. Currently freight emissions account for 66% of SolarBuddy's total carbon inventory. Consequently, the majority of the emission reduction initiatives will be freight related.

To demonstrate our dedication to emissions reduction, SolarBuddy aims to reduce emissions by 30% over 10 years compared to the FY2020-21 baseline. Whilst SolarBuddy commits to do its utmost to reduce emissions wherever possible, this will be reviewed in a context of significant growth and the feasibility of partnering with potential Climate Active certified freight forwarders.

The initiatives outlined in table 1 are the beginning of SolarBuddy's commitment to continually improve its energy and carbon management. This will be progressed through the ongoing identification, analysis, and prioritisation of key initiatives to drive positive outcomes throughout the Organisation.

SolarBuddy aims to inspire and educate a community of millions of people to be agents of change to end extreme energy poverty by 2030. Under our Climate Action Plan, SolarBuddy commits to actively encourage this broader community to undertake initiatives to reduce their emissions.

Additionally, SolarBuddy commits to adopting, wherever reasonably possible, Lean Principles i.e. the relentless elimination of waste (non-value added activities) in a process to reduce cost and lead time and improve efficiency in the safest possible manner. SolarBuddy will be particularly focusing on Visual Management, Poke-Yoke and Kaizen (Continuous Improvement).

*“Energy poverty is a complex challenge, but we are motivated by big challenges and will never stop innovating new ways to solve it.
#endenergypoverty*

Table 1

Emission Reduction Initiatives FY22		
Emission Source	Reduction measure	Scope
Freight	<p>Lower carbon emissions associated with freight via a combination of inventory management and partner selection.</p> <p>Prioritise low-carbon freight options. This will require SolarBuddy to use marine freight – as opposed to air freight – wherever possible.</p> <p>SolarBuddy will examine the feasibility of switching to a Climate Active certified freight provider.</p>	3
Energy efficiency in office	<p>SolarBuddy will review its current energy market retailer to assess providers on their renewable energy packages. This will facilitate the transition to 100% renewable energy throughout SolarBuddy's premise.</p> <p>Using renewable energy is important to SolarBuddy so we will also be requesting solar panels to be installed by the landlord.</p>	2
Air Travel	<p>Reduce air travel by prioritising video conferencing over interstate and international in-person meetings. Air Travel is a significant contributor to SolarBuddy's emissions footprint so reducing the number of flights taken by SolarBuddy's staff is a key priority.</p> <p>Reduce air travel by utilising locally based staff. In circumstances where in-person meetings are required, SolarBuddy will prioritise locally based staff to attend the meeting, further reducing air travel by the organisation.</p>	3
Waste to landfill	<p>SolarBuddy is committing to eliminate all single use items in the office, particularly in the kitchen. This will be coupled with an increase in the amount of recycling and composting, particularly of kitchen food scraps.</p>	3

Emissions summary (inventory)

The tables below summarise SolarBuddy's emissions by source.

Table 2

Emission source category	kg CO ₂ -e
Accommodation and facilities	813
Air Transport (km)	7,154
Cleaning and Chemicals	281
Electricity	6,301
Food	243
ICT services and equipment	3,344
Land and Sea Transport	2,650
Office equipment & supplies	84
Postage, courier and freight	66,320
Professional Services	7,962
Waste	4,720
Water	88
Working from home	46
<i>Total Net Emissions</i>	100,005 (100 tonnes)

Please note that due to rounding of numbers the figures may not add up exactly to the total net emissions provided.

Uplift factors

Table 3

Reason for uplift factor	kg CO ₂ -e
5% Mandatory Uplift for Small Organisations to account for immaterial items and consumables	5,000
<i>Total footprint to offset (uplift factors + net emissions)</i>	105,005 (105 tonnes)

Carbon neutral products

No carbon neutral products were used.

Electricity summary

Electricity was calculated using a location-based approach.

Market-based approach summary

Table 4

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	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)	1,282	0	19%
Residual Electricity	5,493	5,895	0%
Total grid electricity	6,776	5,895	19%
Total Electricity Consumed (grid + non grid)	6,776	5,895	19%
Electricity renewables	1,282	0	
Residual Electricity	5,493	5,895	
Exported on-site generated electricity	0	0	
Emission Footprint (kgCO ₂ e)		5,895	
Total renewables (grid and non-grid)	18.93%		
Mandatory	18.93%		
Voluntary	0.00%		
Behind the meter	0.00%		
Residual Electricity Emission Footprint (TCO₂e)	6		

Location-based approach summary

Table 5

Location Based Approach	Activity Data (kWh)	Emissions (kgCO ₂ e)
ACT	0	0
NSW	0	0
SA	0	0
Vic	0	0
Qld	6,776	6,301
NT	0	0
WA	0	0
Tas	0	0
Grid electricity (scope 2 and 3)	6,776	6,301
ACT	0	0
NSW	0	0
SA	0	0
Vic	0	0
Qld	0	0
NT	0	0
WA	0	0
Tas	0	0
Non-grid electricity (Behind the meter)	0	0
Total Electricity Consumed	6,776	6,301
Emission Footprint (TCO₂e)	6	

4. CARBON OFFSETS

Offsets strategy

Table 6

Offset purchasing strategy: In arrears

1. Total offsets previously forward purchased and banked for this report	0
2. Total emissions liability to offset for this report	105
3. Net offset balance for this reporting period	105
4. Total offsets to be forward purchased to offset the next reporting period	15
5. Total offsets required for this report	105

Co-benefits

SolarBuddy has purchased offsets to support solar cooking in Iridimi, Chad. This empowers locals by training them to manufacture, use, and maintain solar cookers which are provided at an affordable cost. SolarBuddy is committed to supporting projects that support local communities and seek to eradicate energy poverty.

Offsets summary

Proof of cancellation of offset units.

Table 7

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
Solar Cooking In Chad, IRIDIMI (VPA1)	VER	GSF	20 August 2020	GS1-1-TD-GS3445-3-2018-20018-1890-2009	2018	120	0	15	105
Total offsets retired this report and used in this report									105
Total offsets retired this report and banked for future reports									15

Table 8

Type of offset units	Quantity (used for this reporting period claim)	Percentage of Total
Verified Emissions Reductions (VERs)	105	100%

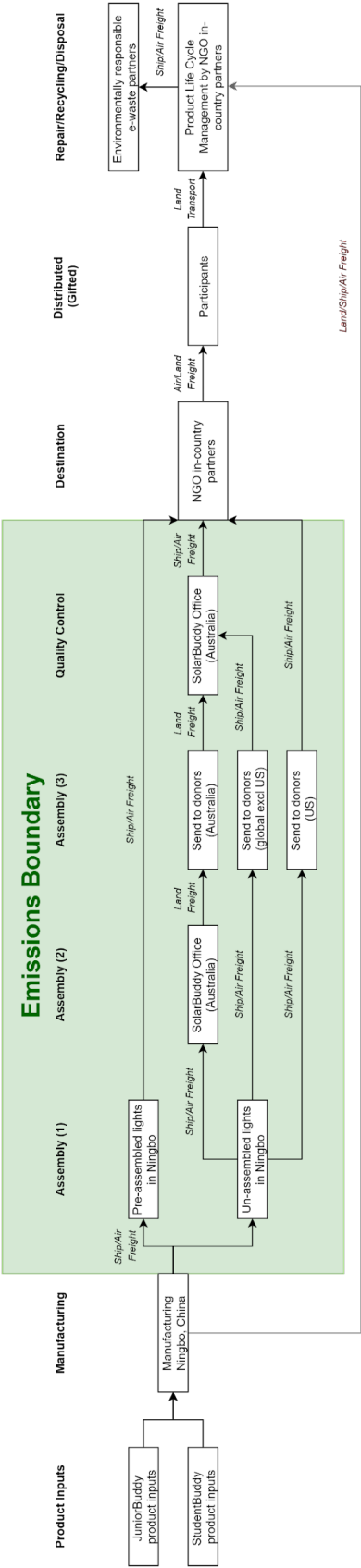
5. USE OF TRADEMARK

As this is a Base Year certification, the Climate Active Trademark has not been used in any internal or external reporting by SolarBuddy.org Ltd.

6.ADDITIONAL INFORMATION

No additional information disclosed.

APPENDIX 1: EMISSIONS BOUNDARY



APPENDIX 2 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 9

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>
Carbon neutral products and services	No	No	No	Yes	No
End-of-life treatment for sold products	No	No	No	No	No
International offices	No	No	Yes	No	No

APPENDIX 3 NON-QUANTIFIED EMISSIONS

Table 10

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 emission 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>
Refrigerants	Yes	No	No	No
Office equipment and supplies	Yes	No	No	No



An Australian Government Initiative

