

Carbon Neutral Program Annual Carbon Account Report




NAME OF CERTIFIED ENTITY: **Albert Park Pre-School Centre**

REPORTING PERIOD: **01-JAN-2019 to 31-DEC-2019**

Declaration

To the best of my knowledge, the information provided in this Public Disclosure Summary is true and correct and meets the requirements of the National Carbon Offset Standard Carbon Neutral Program.

| | | |
|--|---|---------------------|
| Signature |  | Date 22 May 2020 |
| Name of Signatory Jenny Whelan | | |
| Position of Signatory Administration Director Albert Park Kindergarten | | |

| | |
|---|------------------------------|
| Carbon neutral certification category | Organisation |
| Date of most recent external verification/audit | July-2019 |
| Auditor | Ndevr Environmental |
| Auditor assurance statement link | Matt Drum / Shaun McFarlane |



Australian Government
Department of the Environment and Energy

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1. About Albert Park Pre-School Centre

Albert Park Pre-School, established in 1948, is a community sessional Kindergarten located in Melbourne's inner bayside suburb of Albert Park. Just a stones throw from Albert Park Village, the Kindergarten has long been a fixture in the local community and prides itself on promoting wellbeing for all – our planet and each other - and helping forge friendships between children and families alike.

Our philosophy revolves around play as a tool for learning. Through play, young children learn so much about social standards, respect, imagination and problem-solving - while having fun in a supportive, caring and nurturing environment.

Our program development is guided by the Early Years Learning Framework (EYLF). Our teaching practice is inspired by the Reggio Emilia approach. Albert Park Preschool provides a wonderful learning environment for 3 and 4 year olds.

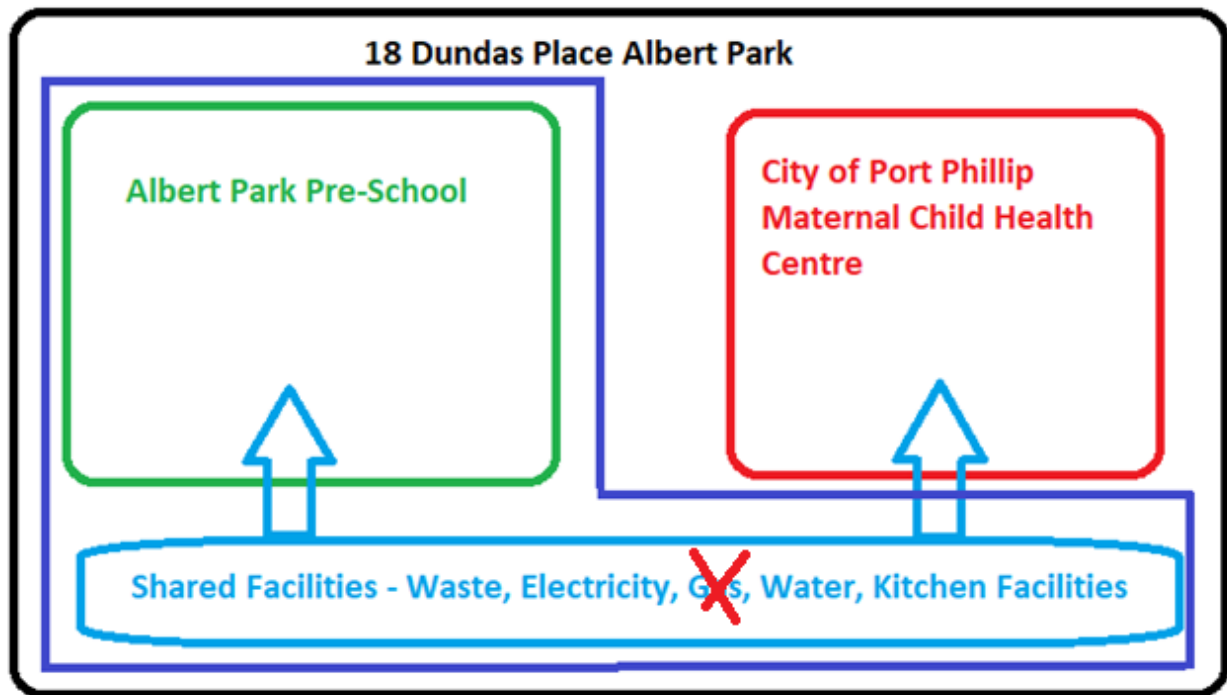
Kindergarten is an exciting time for both children and their families and at Albert Park Preschool we want children to have very happy memories of their kindergarten years. Our teachers and educators have wide-ranging experience and a nurturing, positive approach. We have four groups in total, two groups of 3s and two groups of 4s.

1A. Introduction

This inventory has been prepared for the year commencing 1st of January 2019 through to the 31st of December 2019. This is the 2nd reporting year. The previous year (1st of January 2018 to 31st of December 2018) is the base year for this carbon account.

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 organisation has only one site which is located at 18 Dundas Place, Albert Park, Victoria 3206. Note that this organisation has only one site and one operational entity so no consolidation approaches have been applied to this account.

The organisation shares the site with a Maternal Child Health service which is run by the City of Port Phillip. The operational boundary separates the two organisations in all aspects of the carbon account except for utilities and waste. In the interests of transparency, conservatism and accuracy, no attempt is made to separate the waste, electricity, water and gas usage by the two services operating at the site. This carbon account includes total utility and waste usage from the site. It is also believed that this approach creates an easier future path for the entire site (rather than just one organisation on the site) to be carbon neutral.



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

- **National Carbon Offset Standard for Organisations**
- **The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)**
 - Principles = Relevance, Completeness, Consistency, Transparency, Accuracy
 - Embrace the 5 business goals listed in the document above.
 - Setting organisational Boundary
 - Setting Operational Boundary
 - Tracking Emissions over Time
 - Identifying and Calculating GHG emissions
 - Managing Inventory Quality
 - Accounting for GHG Reductions
 - Reporting GHG Emissions
 - Verification of GHG Emissions
 - Setting a GHG Target
- **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) and nitrous oxide (N₂O) These have been expressed as carbon dioxide equivalents (CO₂-e) using relative global warming potentials (GWPs).

Quantified Sources

The following sources of emissions have been included within the operational boundary are:

- ~~Gas~~ – gas meter has been shut off and removed from the site – no gas has been used during this reporting period.
- Electricity
- Water

- Waste Water
- Staff Commuting
- Waste – Landfill & Recycling
- Office Paper

Non - Quantified Sources

The following non-quantified sources have been included in this carbon inventory:

- It is assumed that solar power generated on site is free from emissions.

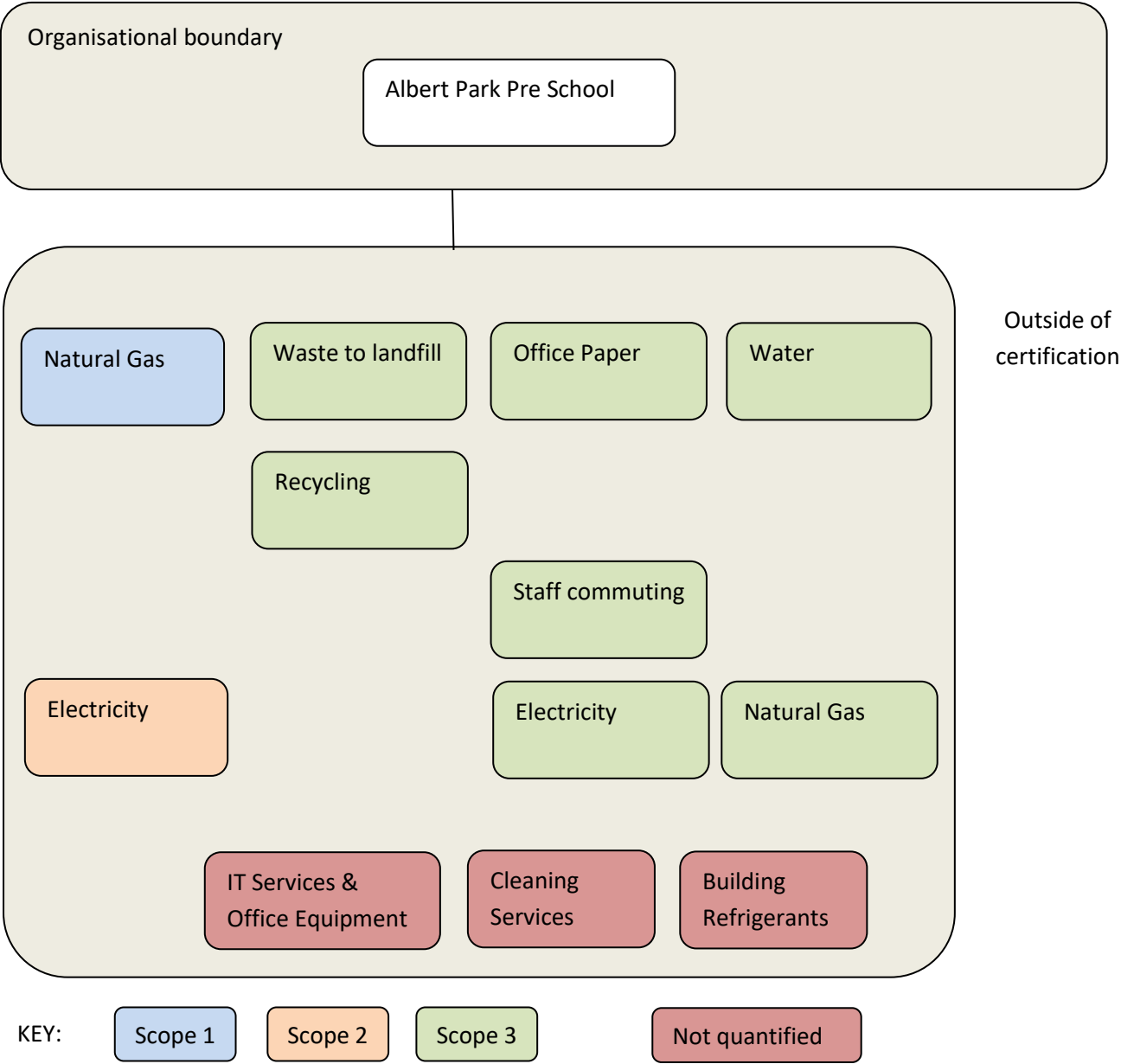
This organisation makes no use of the following item categories:

- Flights
- Taxis
- Couriers and other freight services
- Accommodation
- Catering and other food purchases.
- Data Centres & large scale IT and other network related equipment.

The following items have not been quantified:

- Transport modes used by families to both drop off and collect children before and after pre-school sessions.
- The following emission sources have been excluded in line with the provisions of the National Carbon Offset Standard for Organisations. The impact of excluding these sources is not expected to materially affect the overall total emissions
 - Refrigerant usage is confined to one small fridge / freezer which is shared between the 2 operational facilities and regarded as immaterial to this account and at no time during the reporting year was any additional refrigerant gas required.
- Office equipment / IT Services is not included because the information is difficult to gather relative to the estimated size of the emissions. Office equipment is restricted to a very small number of laptop computers, phones, ipads and small copier / printers.
- Cleaning services delivered by the building owners (City of Port Phillip) are carried out by external providers. All utilities used by cleaners are included in this account, but there is no inclusion of cleaning products and materials due to the difficulty involved in collecting this information together with the fact that the building is cleaned as a whole - no separation is made between the different services (operating within the building) from a cleaning perspective. In addition, the building is small, around the size of an average house and the impact of cleaning services on this account is not regarded as material.

1C. Diagram of the certification boundary



2. Emissions reduction measures

2A. Emissions over time

The following table shows the current year's emissions versus the base year (2018) for this organisation. This is the 2nd year of reporting and the pre-school has recorded a reduction of 20.8% in overall emissions over this period when compared to the base year (2018).

| Albert Park Kindergarten - Carbon Neutral Audit Summary | | | | | | |
|---|-------|-------|-----------|----------------|-------------------|----------------|
| Albert Park Pre-School | units | Scope | 2018 | 2018 Emissions | 2019 | 2019 Emissions |
| Reporting Year From | Date | | 1-Jan-18 | | 1-Jan-19 | |
| Reporting Year To | Date | | 31-Dec-18 | | 31-Dec-19 | |
| Reporting Year Days | Days | | 365 | | 365 | |
| Electricity | kWh | 2 | 4,537 | 4.989 | 3,102 | 3.164 |
| Gas Usage | Mj | 1 | 5,190 | 0.281 | 0 | 0.000 |
| Water Usage | kL | 3 | 87 | 0.144 | 100 | 0.165 |
| Transport Small Car | km | 3 | 2,040 | 0.351 | 4,080 | 0.694 |
| Transport Medium Car | km | 3 | 7,600 | 1.596 | 7,600 | 1.748 |
| Landfill Waste | kg | 3 | 440 | 0.616 | 440 | 0.616 |
| Recycling Waste | kg | 3 | 990 | 0.020 | 990 | 0.021 |
| Electricity | kWh | 3 | 4,537 | 0.466 | 3,102 | 0.310 |
| Natural Gas | Mj | 3 | 5,190 | 0.021 | 0 | 0.000 |
| Office Paper | kg | 3 | 48 | 0.073 | 20 | 0.030 |
| Waste Water | kL | 3 | 87 | 0.077 | 100 | 0.089 |
| GROSS TOTAL (t CO2e) | | | | 8.634 | | 6.836 |
| Green Power | kWh | 2 | 0 | 0.000 | 168 | -0.171 |
| NET TOTAL (t CO2e) | | | | | | 6.665 |
| | | | | | Difference | -1.798 |
| | | | | | % Change | -20.8% |

2B. Emissions reduction strategy

The following tasks perform the basis of the emission reduction strategy going forward:

- Our ultimate aim is to be carbon positive without the need to purchase any offsets.
- We want to continually refine our practice and reduce our energy needs.
- We are focused on reducing the impact of our financial decisions through carefully choosing both suppliers and products to reduce our environmental impact.
- We want to grow our impact through working closely with families and children in our local community.
- We want to build better partnerships with other organisations in our local area to help others reduce their emissions.
- We want to continually reduce our waste by paying close attention to our operations.

2C. Emissions reduction actions

The following actions represent the highlights of our emission reduction actions in 2019:

- In October 2019 Albert Park Pre-School (through building owner – the City of Port Phillip) joined the Melbourne Renewable Energy Project (MREP) and began purchasing 100% green energy. In 2019, only a small part of the electricity consumption of the building was green power. In 2020, all electricity will be green power which will further reduce the organisations emissions. In 2019 electricity accounted for 46% of emissions.
- In late 2019 the gas meter was physically disconnected and removed from site after having been turned off in mid-2018. The site is now electric only.
- Continued emphasis on open and close procedures to ensure unnecessary after hours electrical use is avoided – the aim to reduce grid electricity significantly and make better use of our solar battery. In 2019 these measure resulted in a reduction of grid electricity by 32%
- Two composting cones were installed in 2019 to allow all food and garden waste to be processed on site which has further reduced waste to landfill.
- In 2020 we aim to measure and audit all waste streams as part of an improving approach to this area of emissions and incorporation into education and professional development.
- Staff on site continue to be active in terms of attention to their purchasing policies by both reducing purchases and making better choices in terms of avoiding harmful and wasteful products.
 - Reductions experienced in terms of program purchasing (eg: items sourced from local business offcuts that also serve to reduce the waste created at those sites)
- Through the 2019 City of Port Phillip Seedlings Program (an early years sustainability leadership program), Albert Park was awarded:
 - The number one rating for operating emissions per child per hour, and
 - The number two rating for water usage per child per hour.
- Staff and families using our centre will continue to be encouraged to use zero or low emission forms of transport to travel to and from.
- Office Paper for both printing and art work was reduced by 59% in 2019.
- Ultimately, the organisation aims to be free from the need to purchase offsets.
- In conjunction with the City of Port Phillip, Albert Park Pre-School won the City Power Partnership community engagement award in 2019.
- Albert Park Pre-School was awarded an Excellent Rating by the Australian Children's Education and Care Quality Authority (ACECQA), the highest rating a service can achieve under the National Quality Framework.
- In October 2019, Albert Park Pre-School was featured on the 7:30 report as part of their announcement of becoming the first carbon neutral certified kindergarten in Australia.
 - <https://www.abc.net.au/7.30/australias-first-carbon-neutral-kindergarten/11647840>

3. Emissions summary

| Table 2. Emissions Summary | | |
|----------------------------|-----------------------|----------------------|
| Scope | Emission source | t CO ₂ -e |
| 1 | Natural Gas | 0.000 |
| 2 | Electricity | 3.164 |
| 3 | Water | 0.165 |
| 3 | Waste Water | 0.089 |
| 3 | Staff Commuting | 2.442 |
| 3 | Municipal Solid Waste | 0.616 |
| 3 | Natural Gas | 0.000 |
| 3 | Electricity | 0.310 |
| 3 | Waste – Recycling | 0.021 |
| 3 | Office Paper | 0.030 |
| Total Gross Emissions | | 6.836 |
| GreenPower or retired LGCs | | -0.171 |
| Total Net Emissions | | 6.665 |

4. Carbon offsets

4A. Offsets summary

Full offset documentation was included in the application certification process. All offset units have been purchased and cancelled for the 2020 calendar year based on the 2019 carbon accounts.

| Table 3. Offsets Summary | | | | | | |
|---|-----------------------|------------|-------------------|---|---------|----------|
| Projects supported by offset purchase | Eligible offset units | Registry | Cancellation date | Serial numbers (including hyperlink to registry transaction record) | Vintage | Quantity |
| VCS-REDD, Peru Avoided Deforestation, Madre de Dios (2015) | VCUs | Tree Creds | 20 May 2020 | 6151-282301723-282301729-VCU-006-MER-PE-14-844-01012015-31122015-0 https://registry.terra.org/myModule/rpt/myrpt.asp?r=206&h=114095 | 2015 | 7 |
| | | | | | | |
| Total offsets cancelled | | | | | | 7 |
| Total offsets banked for use future years: (if any) [include serial numbers] | | | | | | 0 |

4B. Offsets purchasing and retirement strategy

Albert Park Pre-School's approach to offset unit cancellation is to purchase and retire offsets in arrears.

1. Carbon inventory is calculated annually.
2. At the end of each inventory year the amount of offset units to purchase is calculated.
3. Offset units are purchased for the year in arrears
4. Any discrepancy as a result of audit or other adjustment will result in either a net benefit or require the purchase of more offset units.

4C. Offset projects (Co-benefits)

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5. Use of trade mark

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| Table 4. Trade mark register | |
|------------------------------|--------------------------|
| Where used | Logo type |
| [e.g. Sustainability report] | [Certified organisation] |
| | |
| | |

6. Have you done more?

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