



ESD and Sustainability Consultants
Master Planning
Resource Management
Strategic Advice
Governance
Advocacy

dsquared Consulting
Climate Active Program
Public Disclosure Summary
2019 Calendar Year

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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 15/04/20
Name of Signatory Ken K. Long	
Position of Signatory Sustainability Consultant	

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1 Introduction

1.1 Description of Certification

The Climate Active Carbon Neutral certification is for dsquared Consulting as an organisation.

1.2 Introduction

Formed in 2012 by Paul Davy and Deborah Davidson, dsquared Consulting delivers innovative and independent sustainable solutions in the built environment.

dsquared provides Environmentally Sustainable Design (ESD) and Sustainability advice from the earliest stages of project master planning, through building design, construction and functionality. The consultancy works on projects spanning from precinct infrastructure planning right down to the selection of office furniture.

The dsquared has been operating out of their one office since 2014 in Adelaide, South Australia. During the calendar year of 2019 the dsquared team consisted of 7 personnel; 2 Directors and 5 ESD Consultants.

dsquared Consulting's work involves a wide variety of engagements, with the vast majority of work being completed in the company office or within the Adelaide CBD through face to face meetings, computer documentation and computer simulation. Specific services provided include:

- Sustainability consultancy for masterplanning and building developments
- Building certification submissions
- Organisational sustainability planning
- Building computer simulation
- Desktop analysis

The dsquared office was the first in South Australia to receive a 5 Star Green Star Interiors As Built rating, showcasing Australian excellence in sustainable development.

In 2016 dsquared Consulting was awarded a National City Switch Award for small businesses showcasing leadership in business operational sustainability.

Since 2015 the office has reached a 5.5 Star NABERS Office Tenancy rating annually, showcasing ongoing excellence in operational energy use reduction.

The company is a member of the Green Building Council of Australia since 2012 and a founding member of Carbon Neutral Adelaide program since 2017. In 2019 dsquared was recognised as an Ambassador of Carbon Neutral Adelaide.

In September 2018, dsquared was recognised as a Climate Active Carbon Neutral Organisation (formerly known as the National Carbon Offset Standard (NCOS)).

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

- Climate Active Neutral Standard for Organisations Standard
- 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 in force for 2016 (for first half of the year) and 2017 (for second half of the year).

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). No synthetic gases – hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulphur hexafluoride (SF₆), were detected within the operational boundary. These have been expressed as carbon dioxide equivalents (CO₂-e) using relative global warming potentials (GWPs).

1.3 Emission Sources Within Certification Boundary

The following sources have been included within the carbon accounting for dsquared Consulting in the calendar year of 2019.

- Building Refrigerants
- Electricity Use
- Electricity – Transmission & Distribution
- Base Building Electricity Use
- Waste to Landfill
- Recycling
- Business Travel - Flights
- Business Travel - Taxis
- Business Travel - Hotels
- Paper
- Staff Commuting
- Water
- Base Building Services

The following sources are acknowledged as immaterial to our organisational carbon accounting and has not been quantified.

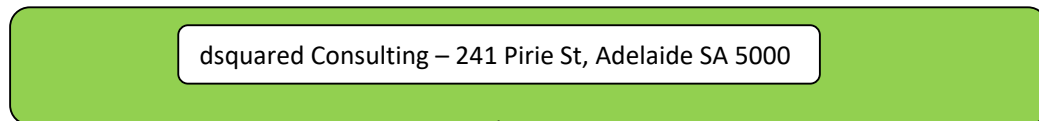
- Cleaning Services – the staff have deemed this item as immaterial because the office is only cleaned once a month (12 times a year)
- Stationery - the staff have deemed this impact as immaterial due to minimal stationery procurement throughout the year
- Food & Catering – the staff have deemed this impact as immaterial as no company catering is procured throughout the year

The following source is excluded from our organisational carbon accounting.

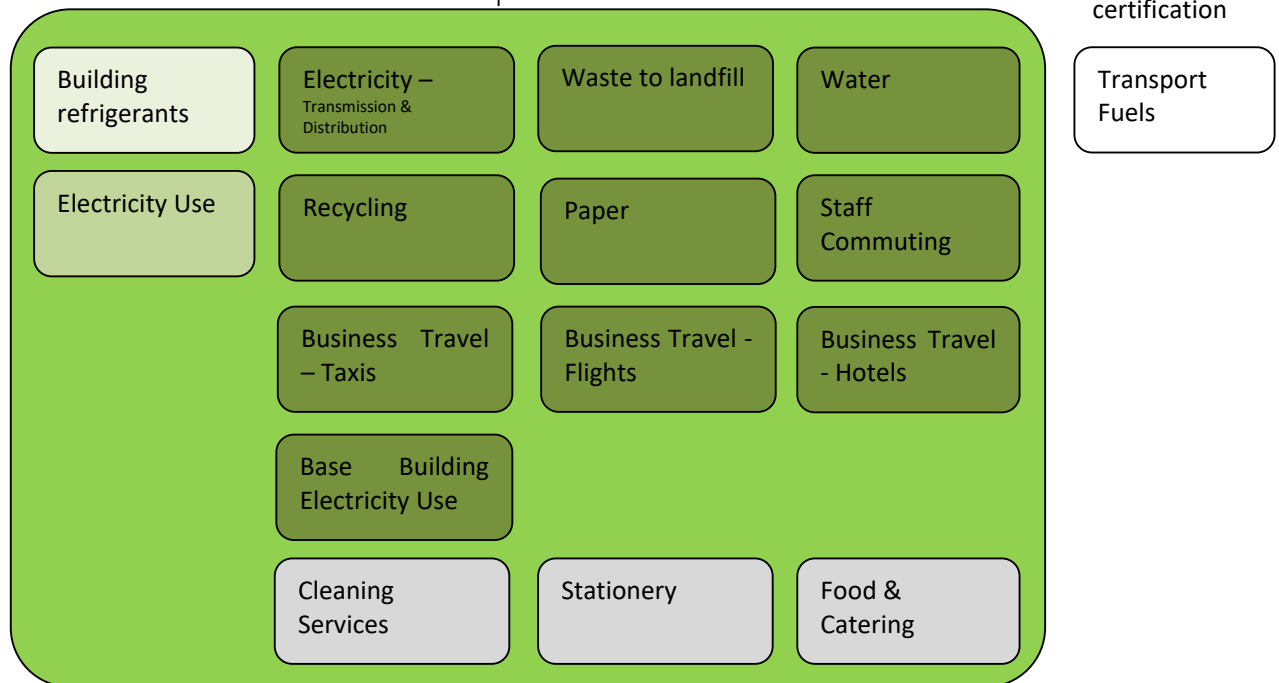
- Transport Fuels – company directors have indicated that dsquared Consulting will never procure company vehicles, therefore no transport fuel for the company to ever be accountable for.

1.3.1 Diagram of Certification Boundary

Organisational Boundary



Operational Boundary



KEY:



2 Emission Reduction Measures

2.1 Emissions Over Time

Table 1. Emissions since base year			
	Base Year: 2017	2018	2019
Scope 1	0.81 t CO ₂ -e	0.81 t CO ₂ -e	0.80 t CO ₂ -e
Scope 2	1.83 t CO ₂ -e	1.85 t CO ₂ -e	1.89 t CO ₂ -e
Scope 3	3.41 t CO ₂ -e	4.94 t CO ₂ -e	7.37 t CO ₂ -e
Total Gross Emissions	6.05 t CO₂-e	7.60 t CO₂-e	10.06 t CO₂-e
Green Power Purchase	-0.48 t CO ₂ -e	-0.46 t CO ₂ -e	-0.47 t CO ₂ -e
Total Net Emissions	5.57 t CO₂-e	7.14 t CO₂-e	9.59 t CO₂-e

In 2019, increase in emissions are due to increase of staff from 4 to 7 people and greater business opportunities interstate.

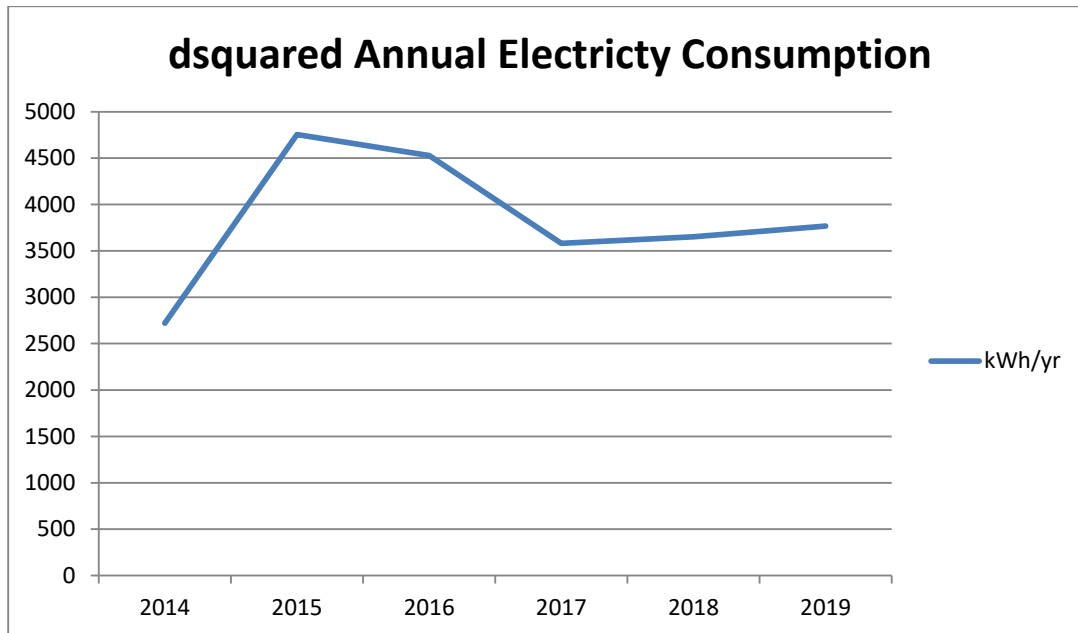
2.2 Emissions Reduction Strategy

dsquared Consulting is dedicated to sustainability within their own business, not just for their clients and projects, and aims to 'walk the walk'. The organisation's emissions reduction strategy involves:

- Generating and utilising solar energy throughout the day and exporting excess
- Measuring and reporting our energy consumption and carbon footprint annually
- Promoting our commitments to our clients, project partners and associated programs to encourage sustainable change within the development industry
- Encouraging our staff to be minimise their impacts at the office and at home.

2.3 Emissions Reduction Actions

Since the 2014, electricity usage has been monitored and efforts have been made to reduce annual consumption, as illustrated in the following graph, and maintaining above a 6 NABERS Energy rating.



Our office fit out in 2014 included a switch of lighting to more energy efficient T5 lighting with daylight and motion sensors. In 2016 a 2kW solar array was added to the roof to improve energy savings and reduce operational costs.

In 2017 we have installed additional sub-metering to better understand where biggest energy consumption is coming from. This has helped to create data to help advocate for tenancy air conditioning upgrades in 2020.

We are actively encouraging staff to utilise low carbon transport options such as public transport, cycling and car sharing to work.



3 Emissions Summary

Table 2. Emissions Summary		
Scope	Emission source	t CO ₂ -e
1	Building Refrigerants	0.80
2	Electricity Use	1.89
3	Electricity Transmission & Distribution	0.40
3	Base Building Electricity Use	0.00
3	Waste to Landfill	0.20
3	Recycling	0.00
3	Business Travel - Flights	2.31
3	Business Travel - Taxis	0.04
3	Business Travel – Hotels	0.45
3	Paper	0.01
3	Staff Commuting	3.85
3	Water	0.11
Total Gross Emissions		10.06
Green Power Purchase		-0.47
Total Net Emissions		9.59

Table 3. Offsets Summary					
Offset type and registry	Offset Unit Type	Vintage	Year retired	Quantity (t CO ₂ -e)	Serial numbers
Chakala Wind Farm Retired through Verra on APX. Screenshot evidence supplied in Appendix A	VCUs	2016	2020	18	7068-368116948-368116965-VCU-034-APX-IN-1-1197-01012016-31122016-0
Total offsets required for CY2019					9.59 tonnes
Total offset units retired for CY 2019					9.59 tonnes
Net emissions for CY 2019 after offsetting					0 tonnes
Total offsets banked for use future years					8.41 tonnes

In addition, 30 tonnes of offsets from the Australian Yarra Yarra Biodiversity Project have been assigned to dsquared Consulting. Assigning is the activity with which a holder of Validated VERs may commit to retire those credits upon verification. Assignment is irreversible and assigned VER will be retired immediately upon verification. For more information, see the link below:

<https://registry.goldstandard.org/credit-blocks/details/25766>

Serial numbers: GS1-1-AU-GS3039-22-2019-5301-14342 to 14371

4.1 Offsets Purchasing and Retirement Strategy

Our offsets have been retired in 2020, in which banked offsets are retired against our carbon offset total at the end of each annual reporting period.

4.2 Offset Projects (Co-Benefits)

Chakala Wind-Based Power Generation Project

This project is located at Nandurbar, Maharashtra State, India. This greenfield project generates power using renewable energy source (wind energy) and sells the power generated to the state grid. It replaces the use of diesel generators by meeting the power demand during shortage periods.

There is no consumption of any fossil fuel and hence no greenhouse gas emissions.

The total installed capacity of the project involves operating 26 machines each with a rated capacity 1.5 MW. It is a group project being part of Mytrah Energy (India) Limited.



Co-Benefits include the following:

Social well-being:

The project helps in generating employment opportunities during the construction and operation phases. The project activity will lead to development in infrastructure in the region such as development of roads and may promote business with improved power generation.

Project developers will use at a minimum 2% of the revenues accrued from the sale of carbon credits on an annual basis for community related activities. These include providing assistance for development of public amenities in the surrounding areas such as water distribution/sanitation facilities/building of schools and hospitals and free distribution of educational books and school uniforms, annual eye camps health checks for villagers.

Economic well-being:

The project is a clean technology investment in the region, which would not have taken place in the absence of the VCS benefits. The project activity will also help to reduce the demand supply gap in the state. The project will generate power using zero emissions wind based power generation which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.

Environmental well-being:

Wind being a renewable source of energy, reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its zero emission the Project activity avoids a significant amount of GHG emissions.

Technological well-being:

The successful operation of the project activity should lead to promotion of wind based power generation and would encourage other entrepreneurs to participate in similar projects.

Yarra Yarra Biodiversity Corridor (assigned for future retirement)

The *Yarra Yarra Biodiversity Corridor* is in Western Australia. This reforestation project more than removes carbon from the atmosphere now and every day, it has positive social, environmental and economic benefits, aligning with the United Nations Sustainable Development Goals (SDGs). This project removes in total 1.257 million tons of carbon from the atmosphere in an area where over 90% of the bushland has been cleared. Further social and economic benefits include:

- Located in a region where approx. 97% of the land has been cleared for agriculture and is now marginal or partly degraded.
- Links with 12 nature reserves and remnant vegetation sites, within the vision of a 200 km Yarra Yarra Biodiversity Corridor.
- A baseline biodiversity survey has discovered an amazing diversity of plant and animal species, with over 450 species identified. This included 13 bird species of conservation significance, one of which is listed as near-threatened in WA, the Crested Bellbird and 3 plant species listed as threatened and/or rare in WA. Further surveys are on-going this year and over the next 3 years in conjunction with Murdoch University.



- Up to 140 local companies have been utilised as part of the project – promoting and supporting local communities, including indigenous employment. The reforestation has enabled the development of further sustainable and economic benefits to the rural community through development of integrated new industries such as Australian sandalwood and commercial honey production.



5 Use of Trade Mark

Where Climate Active Trademark is Used	Logo type
Organisational Reports	Certified organisation
Website	Certified organisation
Presentations	Certified organisation

Appendix A

In lieu of a direct link to retired offsets on the Verra Registry, evidence of retired offsets are confirmed via the screenshot below

The screenshot shows the Verra Registry website interface. At the top, a summary box displays the following statistics:

- VCS Issued: 456,545,444
- VCS Retired: 253,701,079
- VCS Projects Registered: 1,582
- VCS Projects with VCs Issued: 1,234
- VCS Projects without VCs Issued: 327

Below the summary is a navigation bar with tabs for 'All Projects', 'Registered', 'Pipeline', 'VCUs', and 'Buffer'. The 'VCUs' tab is selected. The main content area is titled 'PROJECT SEARCH' and contains a search filter sidebar on the left and a results table on the right.

The search filter sidebar includes fields for ID, NAME, PROJECT TYPE, COUNTRY, Issuance Status (set to 'Retired'), SERIAL NUMBER BLOCK START (00010940), and SERIAL NUMBER BLOCK END (00010965).

The results table displays the following data:

Issuance Date	Vintage Start	Vintage End	ID	Name	Country	Project Type	Methodology	Total Vintage Quantity	Credits Quantity Issued	Retirement/Cancellation
10/09/2019	29/10/2013	31/05/2018	1197	Chakala Wind Power Project in Maharashtra	India	Energy Industries (renewable/non-renewable sources)	ACM0002	72,674	18	16/03/2020