



An Australian Government Initiative

NCOS CARBON NEUTRAL PROGRAM

PUBLIC DISCLOSURE SUMMARY

OAK FLATS BOWLING AND RECREATION CLUB



SustainableBusiness
CONSULTING

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1. Organisation information

Organisation Name:	Oak Flats Bowling and Recreation Club Limited
Disclosure Period:	From 1 July 2011 to 30 June 2012
Date of most recent verification:	27 August 2012
Carbon Neutral Disclosure Type:	Part of Organisation - Club and greens facilities only (Three tenanted houses owned by the Club are excluded)

2. Organisation Description

Oak Flats Bowling and Recreation Club Limited is a non for profit medium sized club located in the south of the Illawarra region. The Club has 75 staff and 11,599 members. The Club's facilities include 117 gaming machines, 200 seat brasserie, 70 seat café and pizza bar, 2 function rooms and 3 bowling greens. Oak Flats Bowling and Recreation Club owns 3 houses, located at 9, 11, and 13 Devonshire Crescent, Oaks Flats. These houses are tenanted out and Oak Flats Bowling and Recreation Club has no operational control over GHG emission sources related to the operation of these houses. The three owned houses are therefore excluded from the organisational boundary.

Oak Flats Bowling and Recreation Club is the first club in Australia to go carbon neutral by calculating emissions, reducing emissions and offsetting emissions. Sustainable Business Consulting was engaged in 2011 to determine the organisational and operational boundary of Oak Flats Bowling and Recreation Club, which is based on the GHG Protocol's Corporate Accounting and Reporting Standard 2004. This boundary includes all scope 1 and 2 emissions, as well as a range of scope 3 emission sources.

Oak Flats Bowling and Recreation Club follows the operational control approach for consolidating GHG emissions throughout the organisation, as defined by the GHG Protocol. Oak Flats Bowling and Recreation Club accounts for all scope 1 and 2 emissions for which it has operational control, as well as those scope 3 emissions for which it has no or little operational control, but which are material and relevant to the GHG Inventory. Oak Flats Bowling and Recreation Club aim to ensure that the emission sources it can directly affect through GHG management strategies are categorised as scope 1 or 2 and that those GHG sources over which it has little control are categorised as scope 3.

Oak Flats Bowling and Recreation Club's location is at 1 Kingston Street, Oak Flats NSW 2529. Oak Flats Bowling and Recreation Club has operational control over the clubhouse and greens at this facility. It does not have operational control over the three houses that it owns.

The boundary for the reporting of scope 1, 2 and 3 carbon emissions are thus the club and greens facilities at 1 Kingston Street only. The operational boundary includes:

- Transport emissions (plus upstream transport emissions)
- Stationary energy emissions (plus upstream emissions)
- Refrigerant loss (including both HFCs and CFCs)
- Electricity consumption (including upstream emissions)
- Scope 3 emissions from business travel, waste, water and paper and employees commuting

Excluded are emission sources deemed either to be outside of Oak Flats Bowling and Recreation Club's operational control, or being immaterial in comparison to the total footprint, including:

- Vehicle HFC leakage (immaterial)
- Courier services (immaterial)
- Embedded emissions in food and beverage purchases (outside of operational control)
- Business travel accommodation (immaterial)
- Taxi travel (immaterial)

Picture 1 on the following page depicts an aerial shot of 1 Kingston Street, while picture 2 depicts the geographical boundaries of the Club and the three houses that are owned by the Club, but which are excluded from the boundary. Picture 3 depicts the geographical boundaries of the clubhouse in greater detail. Picture 4 depicts the geographical boundaries of the owned houses in greater detail. Figure 5 depicts the organisational and operational boundaries observed in undertaking the carbon inventory. Major emissions sources included and excluded from the inventory are shown, along with their scope.



Figure 1: Aerial shot of 1 Kingston Street



Figure 2: The geographical boundaries of the club and three houses it owns



Figure 3: The Oak Flats Bowling and Recreation Clubhouse and the geographical boundary



The geographical boundary



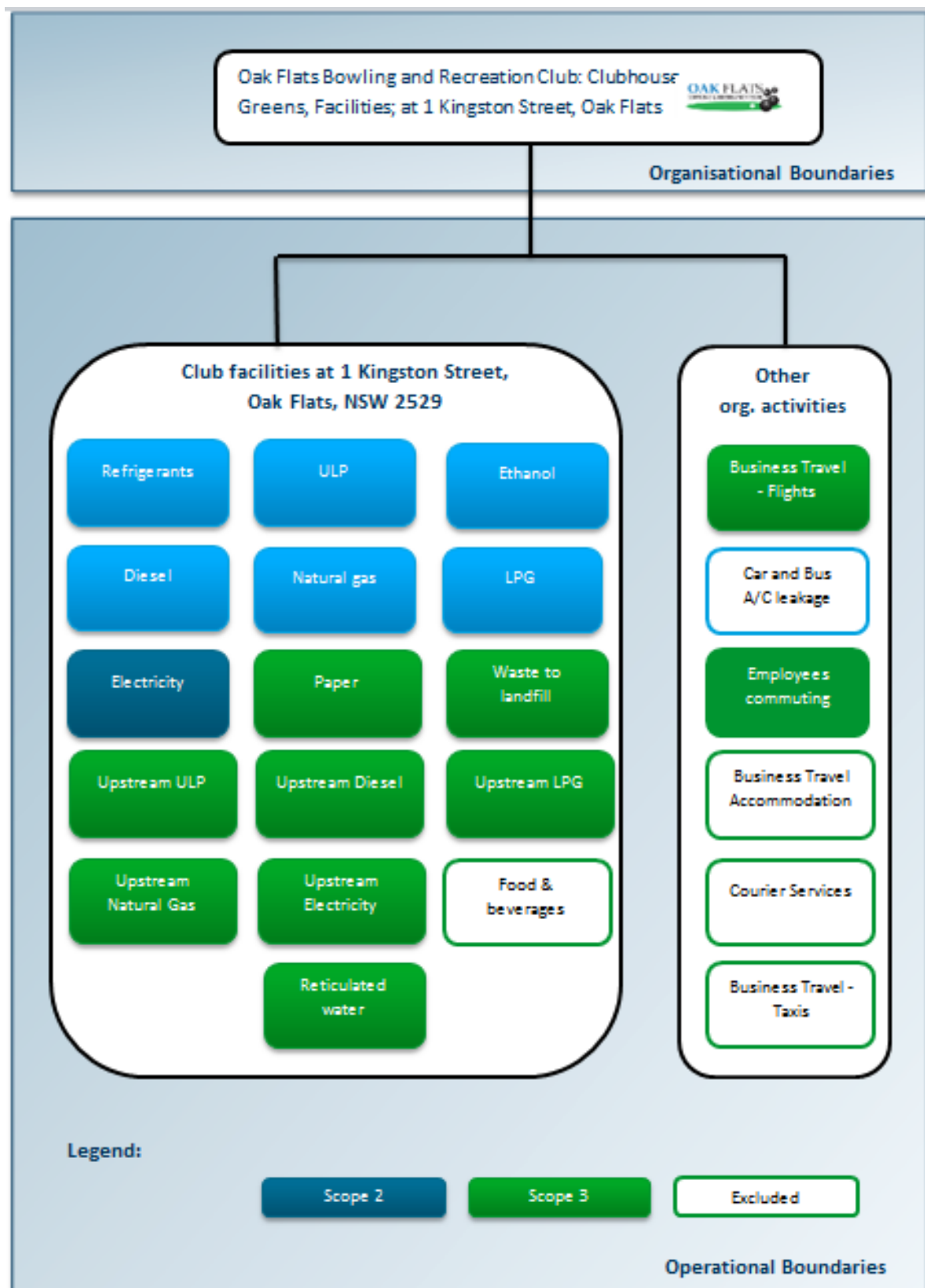
Oak Flats Bowling &
Recreation Clubhouse

Figure 4: The geographical boundary of the three owned houses that are excluded from the carbon inventory



Residential properties
at 9, 11 and 13
Devonshire Crescent.
These are outside the
organisational
boundary and are
therefore excluded.

Figure 5: Organisational and operational boundaries



Oak Flats Bowling and Recreation Club is not reporting under the NGER Act and emissions factors have been taken from the National Greenhouse Accounts Factors, dated July 2011. Emission factors for paper and water emissions have been taken from the EPA Victoria. Emission factors for airtravel have been taken from DEFRA, UK.

Activity data has been collected primarily from invoices, reports provided by suppliers and internally generated consumption reports.

3. Purchase of Greenpower or NCOS carbon neutral products and/or cancellation of Greenpower eligible Renewable Energy Certificates (RECs)

GreenPower:	N/A
GreenPower eligible RECs:	N/A
NCOS carbon neutral product:	N/A

4. Total carbon footprint

Carbon footprint: 1,207.99 tonnes CO₂-e

Table 1: Total carbon footprint

Emission Source	Tonnes of CO ₂ -e
Scope 1	
Purchased E10 for company vehicle and company ute	7.37
Purchased diesel for OFBRC courtesy buses	17.23
Purchased ULP for Greens equipment – stationary	0.51
Purchased LPG	0.19
Purchased natural gas	55.52
Leakage of refrigerants	39.79
<i>Total Scope 1</i>	<i>120.61</i>
Scope 2	
Purchased electricity	820.96
<i>Total Scope 2</i>	<i>820.96</i>
Scope 3	
ULP extraction and transport – stationary	0.04
E10 extraction and transport – transport	0.58
Diesel extraction and transport	1.31
LPG extraction and transport	0.02
Natural gas extraction and transport	15.36
Extraction, transport, transmission and distribution losses for purchased electricity	156.81
Waste going to landfill	38.61
Purchased paper	1.36
Air travel	1.77
Employees commuting	42.91
Reticulated water	7.66
<i>Total Scope 3</i>	<i>266.43</i>
Total Emissions	1,207.99

Figure 6: Total carbon emissions by scope

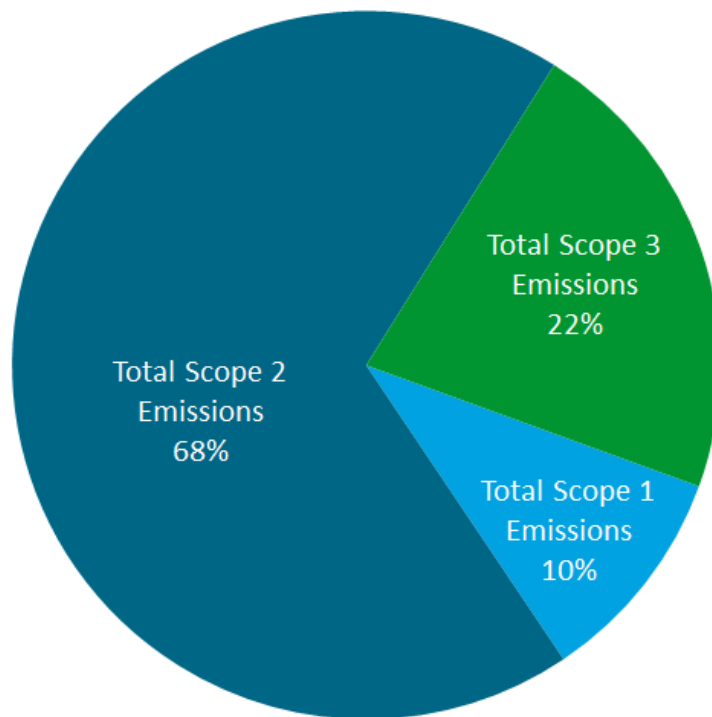
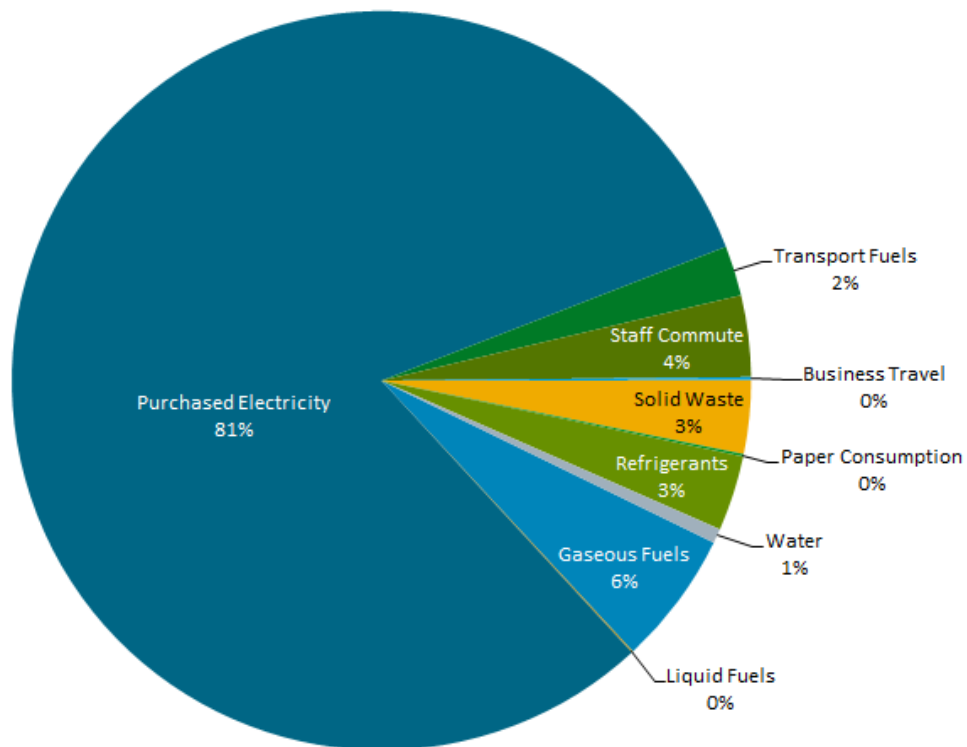


Figure 7: Total carbon emissions by source

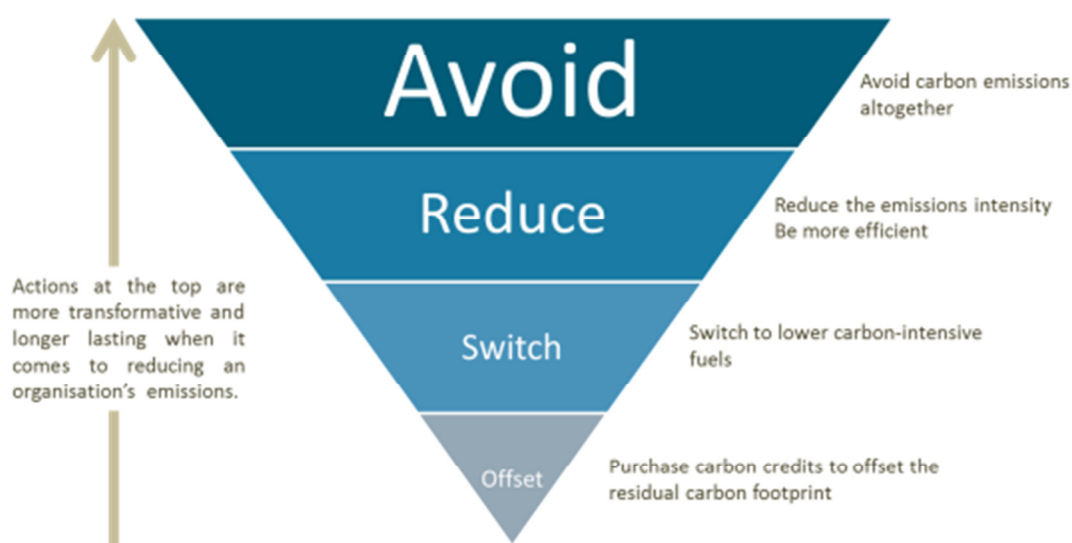


5. Emission reduction measures

5.1.Strategy

Purchased electricity is the carbon hotspot of Oak Flats Bowling and Recreation Club's operations and therefore presents the greatest opportunity to reduce carbon emissions. Oak Flats Bowling and Recreation Club applies the carbon management hierarchy as depicted in the figure below.

Figure 8: Carbon management principles



5.2.Actions implemented during FY 2011/2012

Throughout the 2011/2012 financial year Oak Flats Bowling and Recreation Club continued to implement projects consistent with its strategic focus on People, Planet and Profit. These included both small scale projects which will not result in a quantifiable reduction to the Club's carbon emissions, and larger projects which will significantly impact on the Club's carbon footprint.

Because Oak Flats Bowling and Recreation Club has been following the 'carbon management hierarchy' approach for a number of years, many projects of the 'low hanging fruit' type characterised by 'avoid' and 'reduce' have been implemented at Oak Flats Bowling and Recreation Club. Consequently, although the number of projects implemented for the 2011/2012 may seem insignificant, they in fact form the basis of the larger carbon management hierarchy.

In early 2012, Oak Flats Bowling and Recreation Club participated in a 'Bin-Trim' program with the aim of reducing the amount of waste produced by the Club by promoting recycling and investigating alternatives. Oak Flats Bowling and Recreation Club anticipates the more appropriate distribution of

recyclable products will divert an additional 10% of waste of landfill to the appropriate recycling. Further actions will be implemented in 2012/2013 as a result of the Bin Trim.

As part of Oak Flats Bowling and Recreation Club's ongoing efforts to promote sustainable activities, biodegradable straws were introduced to its bar, café and brasserie during 2011. Oak Flats Bowling and Recreation Club aims to adopt environmentally friendly options wherever possible and practical.

Staff engagement forms an important aspect of Oak Flats Bowling and Recreation Club's carbon management principles. Staff are encouraged to become more environmentally friendly both at home and at work and to engage and interact with the local community to increase environmental awareness. In 2011 Oak Flats Bowling and Recreation Club partnered with Conservation Volunteers Australia (CVA) to give staff access to environmental volunteering experiences. Staff members have since been involved in planting trees and weeding designate fragile land areas in the local region.

A Community Engagement Plan and Charter were developed by Oak Flats Bowling and Recreation Club in 2011/2012. This formed the foundation for the sponsorship of 2 high schools in the local area: Oak Flats High School and Corpus Christie High School Oak Flats. Oak Flats Bowling and Recreation Club teamed up with CVA to assist Oak Flats High, whilst Oak Flats Bowling and Recreation Club sponsored Corpus Christie in implementing a Garden Education program. Each school receives approximately \$12,000pa from Oak Flats Bowling and Recreation Club to assist in implementing these initiatives.

5.3.Future actions for FY 2012/2013

In 2012 the Board of Oak Flats Bowling and Recreation Club endorsed a major energy reduction project: the replacement of the air-conditioning system with an energy efficient central plant system. The decision to endorse a central plant chiller system over a HVAC system was due to the energy efficient capabilities of the chiller system when compared to the like for like HVAC system. The central plant air-conditioning system is anticipated to reduce emissions by 140 tonnes of CO₂-e. This will be the major project for Oak Flats Bowling and Recreation Club in 2012/2013. Installation of the new system at the Oak Flats Bowling and Recreation Club clubhouse commenced in August 2012 and will be operational from the second week of September.

In August 2012 a poultry run will commence operation as a risk mitigation measure with 36 hens. The current method of food waste diversion has been compromised and the poultry run is planned to equal the current outcome of 99% food waste diverted from land fill.

Throughout 2012/2013 initiatives from the Bin-Trim are scheduled for implementation. These will consist of more efficient recycling methods such as cardboard compactors and collection and reduced cross contamination of recycled product

Table 2: Emission reduction measures for FY 2012/2013

Emission Reduction Measures	Estimated Emission Quantity (Tonnes of CO ₂ -e) Reduced
<p>Scope 2, Purchased Electricity:</p> <p>Replacement of the old air conditioning system with a new one</p> <p>Following the successful delivery of the majority of the “low hanging fruit” initiatives, the Board endorsed an upgrade of the Clubs Air-Conditioning Plant. The like for like replacement would have cost approx. \$300,000, however, the Board elected to pursue the purchase of a new more energy efficient central plant chiller system. This will result in cost expenditure of approx. \$640,000 and the project will include an external treatment of the building envelope. The decision to endorse the central plant chiller system was due to the energy efficient capabilities of the new chiller system compared to the like for like HVAC system. Installation of the new chiller system was completed in the last week of August 2012 and will be operational in the second week of September 2012. The estimated emission reduction is expected to happen from the second week of September 2012.</p>	140
Total Estimated Quantity of Emissions Reduced	140

6. Offset purchase / cancellation

Oak Flats Bowling and Recreation Club procures carbon offsets at the finalisation of the carbon inventory report, once the carbon inventory has been developed. Offsets are purchased via the Carbon Trade Exchange listed on the Markit Registry. Offsets are assessed against price, standard of offset, type of offset and fit with organisational policy. Only NCOS eligible offsets will be purchased.

Oak Flats Bowling and Recreation Club will purchase an additional 10% of carbon credits of all scope 3 emissions to allow for a margin of error in calculations; to account for uncertainty in emission factors; and to account for emission sources that it does not currently have emission factors for. Oak Flats Bowling and Recreation Club's scope 3 emissions are 266 tonnes of CO₂-e. Oak Flats Bowling and Recreation Club will purchase an additional 27 carbon offsets.

Table 3: Offsets purchased

Offset type	Registry	Serial numbers	Offset quantity (tonnes of CO ₂ -e)
Verified Carbon Units (VCUs) issued by the Verified Carbon Standard (VCS)	Markit	2094-84689592-84690191-VCU-009-MER-IN-1-633-01012007-31122007-0	600
Verified Carbon Units (VCUs) issued by the Verified Carbon Standard (VCS)	Markit	352-12443692-12444291-VCU-009-TZ1-DE-8-163-01012007-31122007-0	600
Verified Carbon Units (VCUs) issued by the Verified Carbon Standard (VCS)	Markit	1613-67410177-67410276-VCU-006-MER-AU-14-641-01042010-30062011-0	100

7. Other information

Oak Flats Bowling and Recreation Club is a community club and it is the focal point in the village of Oak Flats for recreational and sporting facilities. The Club's commitment to its community covers a wide variety of activities including sporting, educational and charitable organisations.

Oak Flats Bowling and Recreation Club have the strategic focus of People, Planet and Profit; a charter to reduce the ecological footprint of the Club, meet community expectations and to effectively increase the bottom line in the process

Oak Flats Bowling and Recreation Club occupies a leadership role within the Club Industry, engaging with staff, local business and the community to fulfil a range of sustainability initiatives that align with the Club's vision and goals.

The Club demonstrates continual improvement and has set the standard for industry best practise, exceeding the scope of normal Club operations and going beyond what would be considered the standard charter for a small to medium sized business.

Staff engagement has been integral in driving a cultural shift towards sustainability and has seen the development of a Staff Garden, formalised training, sustainability pledges and rewards that also extend to achievements within the household. As a result of energy efficiency, waste minimisation, staff engagement and purchasing carbon offsets Oak Flats Bowling and Recreation Club aims to be the first NCOS accredited carbon neutral club in Australia. This commitment to carbon neutrality is made voluntarily to reduce impacts of climate change, meet community expectations and show leadership.

Further information on Oak Flats Bowling and Recreation Club's commitments to Corporate Social Responsibility can be found in the 2011-12 Annual Report, on the Oak Flats Bowling and Recreation Club's web site from September 2012 at:

www.ofbrc.com.au

