



EARTHCHECK

BENCHMARKING ASSESSMENT REPORT

ATTRACTION BENCHMARKING

OAMARU BLUE PENGUIN COLONY
OAMARU, NEW ZEALAND



REPORT DATE: 9 May 2011

Benchmarking Data Collection Period: 1 January 2010 – 31 December 2010

The planet deserves more than half measures

OVERVIEW

This annual assessment of **Oamaru Blue Penguin Colony** was undertaken against EarthCheck benchmarking indicators and checklists developed for EarthCheck and listed below. ¹ They have been carefully selected to track performance in key areas of environmental and social performance impact. Their outcomes which are presented in this report are used by EarthCheck to evaluate whether the operation has reached the standards necessary to pass the benchmarking requirements, as stated in the EarthCheck Benchmarking Policy. ²

Indicator Measure (Benchmark)		
1	Policy	Policy is produced and in place
2	Energy	Energy Consumption (MJ / Customer) Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO ₂ -e / Customer) Green Power (%) ³
3	Water	Potable Water Consumption (L / Customer) Water Savings Rating (Points) Recycled / Captured Water (%) ³
4	Waste	Waste Sent to Landfill (L / Customer) Waste Recycling Rating (Points) Recycled / Reused / Composted Waste (%) ³
5	Community	Community Commitment (%) Community Contributions Rating (Points)
6	Paper	Paper Products Rating (Points)
7	Cleaning	Cleaning Products Rating (Points)
8	Pesticides	Pesticide Products Rating (Points)
9	Sector Specific	Vehicle Services Completed (%)

¹ Refer to the EarthCheck Sector Benchmarking Indicator (SBI) document for more information. For frequently asked questions (FAQs) about benchmarking or specific help, please log on to 'My EarthCheck' and visit your EarthCheck Benchmarking software.

² To meet the requirements stipulated in the EarthCheck Company Standard, the benchmarks for all the submitted EarthCheck indicators need to be at, or better than, the Baseline level. Baseline and Best Practice performance levels are set with reference to the type of activity (registered sector/s) and appropriate national and international data which take into account social, geographical and climatic impacts.

First-time benchmarking operations that fail to meet the minimum requirements (Baseline performance or better) for up to two submitted EarthCheck indicators (with a third indicator within 10% of the Baseline level), will be permitted to pass benchmarking. The operation is however, given a maximum of 12 months to improve performance in at least one of the indicators to Baseline performance or better. If on the next submission this is not achieved without substantiated evidence that the situation was beyond the control of the operation (e.g., occurrence of a natural disaster), then the right to use the appropriate EarthCheck logo will be withdrawn.

As a standard policy, all EarthCheck indicators are continuously reviewed, along with the performance levels which operators have to achieve in order to meet the requirements of the Company Standard. This review takes into account "business-as-usual" changes in practices and equipment, and is used to update where appropriate Baseline and Best Practice levels.

³ These indicators are for guidance only and do not affect the overall benchmarking evaluation.

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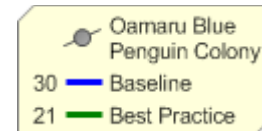
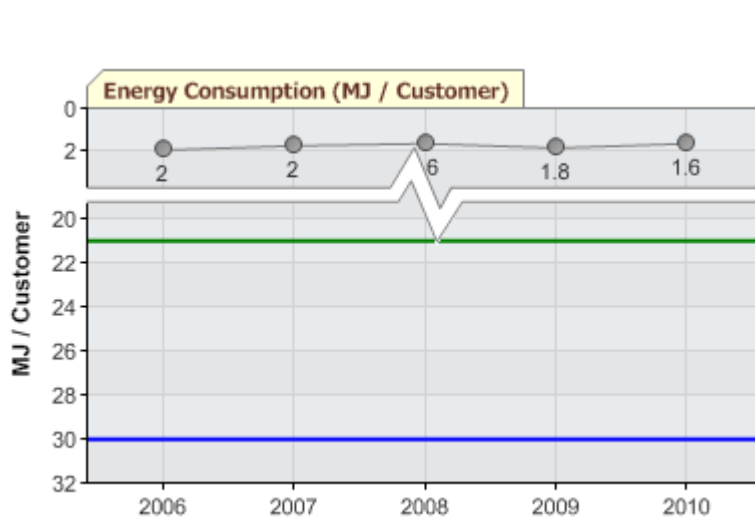
ATTRACTION PERFORMANCE BENCHMARKS

Current performance: Below Baseline ✖ At or above Baseline ✔ At or above Best Practice ★

1. Policy ★

2. Energy

Energy Consumption (MJ / Customer) ★

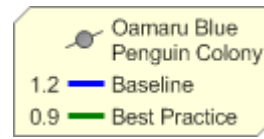
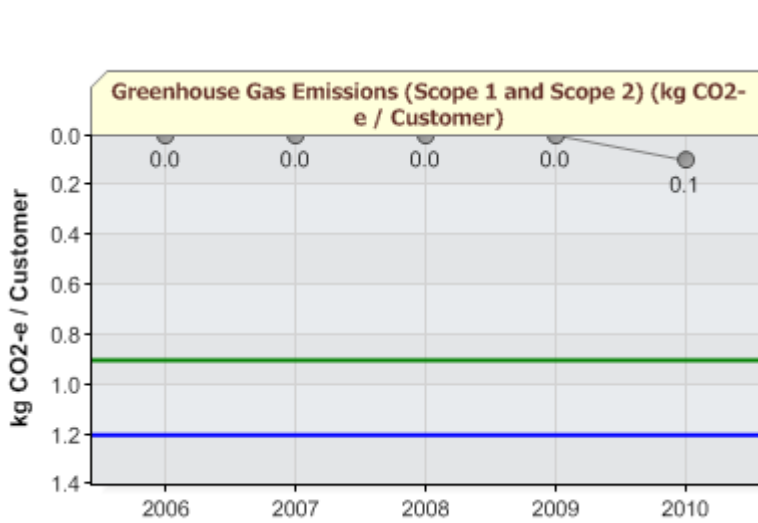


Energy Consumption (MJ / Customer) for the year 2010 (1 January 2010– 31 December 2010) was 1.6 MJ / Customer, which was 92.3% better than the Best Practice level.

Green Power (%)

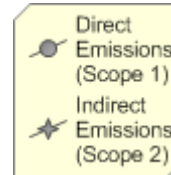
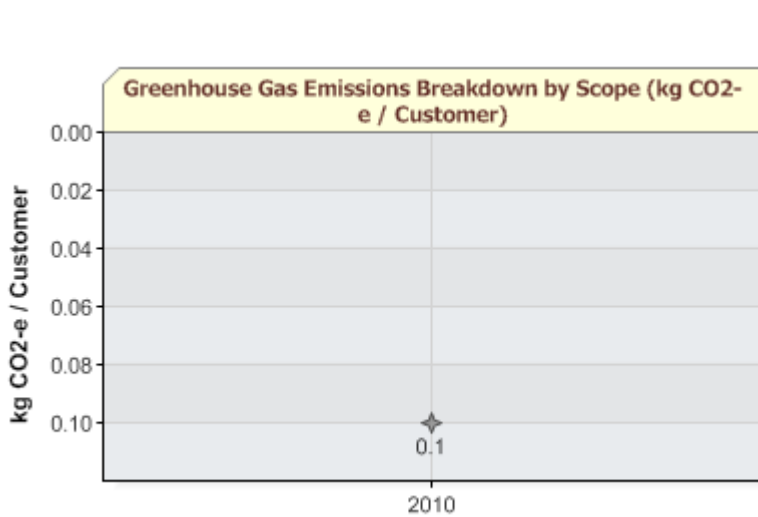
N/A

Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO₂-e / Customer) ★



Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO₂-e / Customer) for the year 2010 (1 January 2010– 31 December 2010) was 0.1 kg CO₂-e / Customer, which was 90.0% better than the Best Practice level.

Greenhouse Gas Emissions Breakdown by Scope (kg CO₂-e / Customer)

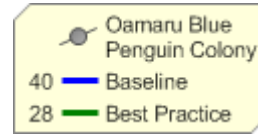
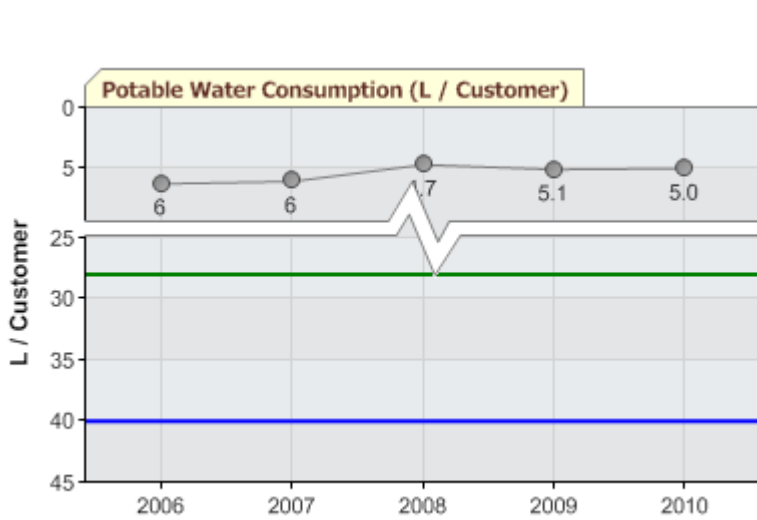


Indirect Emissions (Scope 2) (kg CO₂-e / Customer) for the year 2010 (1 January 2010– 31 December 2010) was 0.1 kg CO₂-e / Customer.

Direct Emissions (Scope 1)								
Not Applicable								
Indirect Emissions (Scope 2)								
Purchased Electricity								
Quantity	Unit	% Green Power	Provider	Energy Consumption (MJ)	CO ₂ Emission Estimate (t CO ₂ -e)	CH ₄ Emission Estimate (t CO ₂ -e)	N ₂ O Emission Estimate (t CO ₂ -e)	Total Emission Estimate (t CO ₂ -e)
36046	Kilowatt hour (kWh)	N/A	New Zealand	129765.6	-	-	-	7.0
subtotal				129765.6	-	-	-	7.0
TOTAL				129765.6	-	-	-	7.0
Greenhouse Gas Emissions (Scope 1 and Scope 2)								
GRAND TOTAL				129765.6	-	-	-	7.0

3. Water

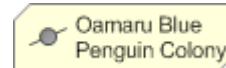
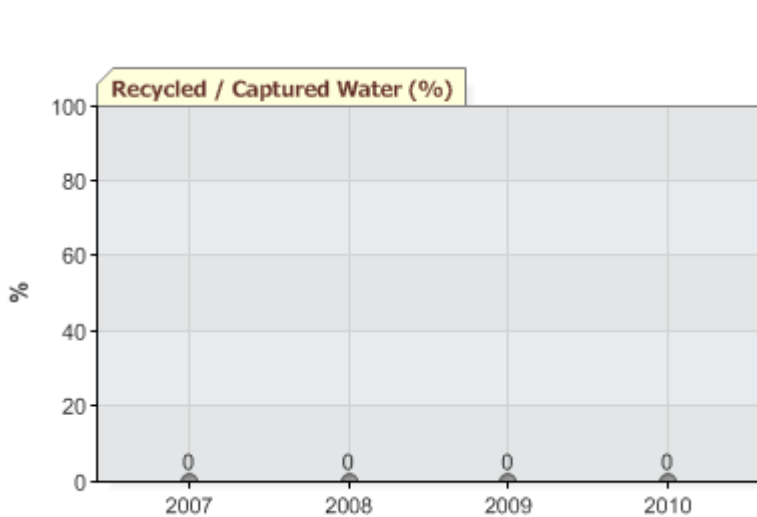
Potable Water Consumption (L / Customer) ★



Potable Water Consumption (L / Customer) for the year 2010 (1 January 2010– 31 December 2010) was 5.0 L / Customer, which was 82.2% better than the Best Practice level.

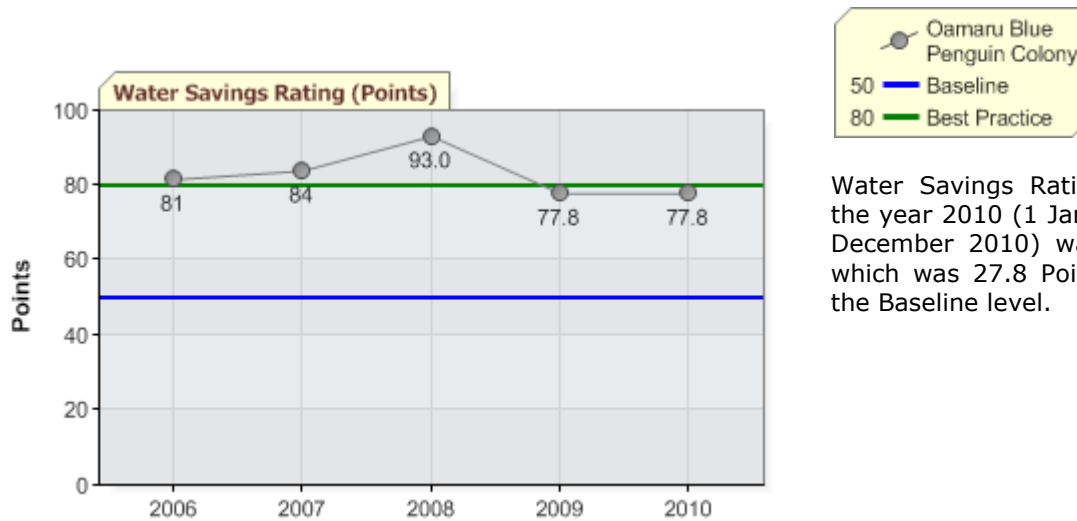
Quantity	Unit	Potable Water Consumption (kL)
400	kilolitres (kL)	400.0 kL
	Totals:	400.0 kL

Recycled / Captured Water (%)



Recycled / Captured Water (%) for the year 2010 (1 January 2010– 31 December 2010) was 0%.

Water Savings Rating (Points) ✓

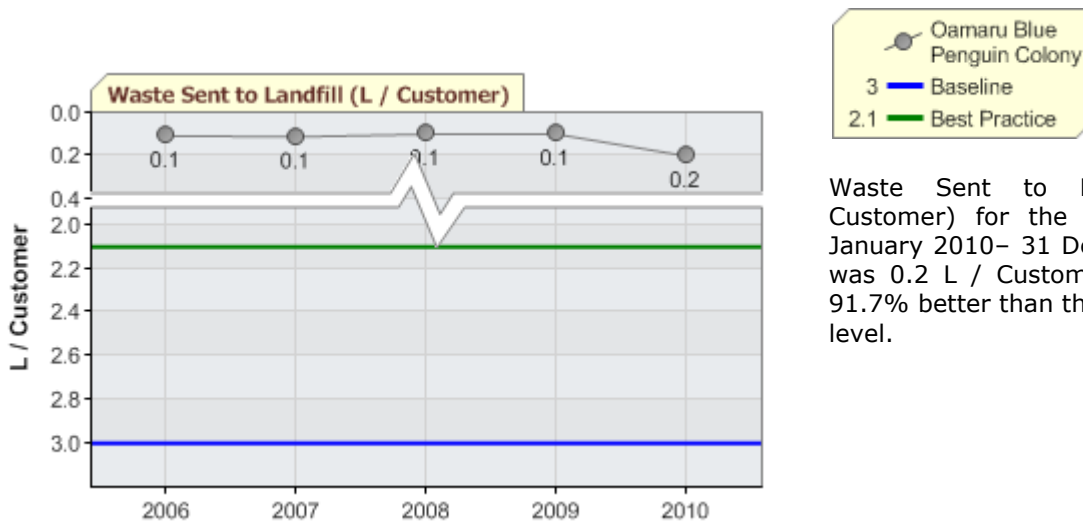


Water Savings Rating (Points) for the year 2010 (1 January 2010– 31 December 2010) was 77.8 Points, which was 27.8 Points better than the Baseline level.

Water Savings Measures	Frequency / Percentage Rating	Water Savings Rating (Points)
Check for leaks	Every week	100.0 Points
Low/dual flush toilets	100%	100.0 Points
Low flow tap fittings	80-99%	88.9 Points
Low flow shower fittings	100%	100.0 Points
Water sprinklers used after dark	Not Relevant / Not Available	
Minimal irrigation landscaping	Not Relevant / Not Available	
Use of recycle/grey/rain water	0%	0.0 Points
	Overall Rating:	77.8 Points

4. Waste

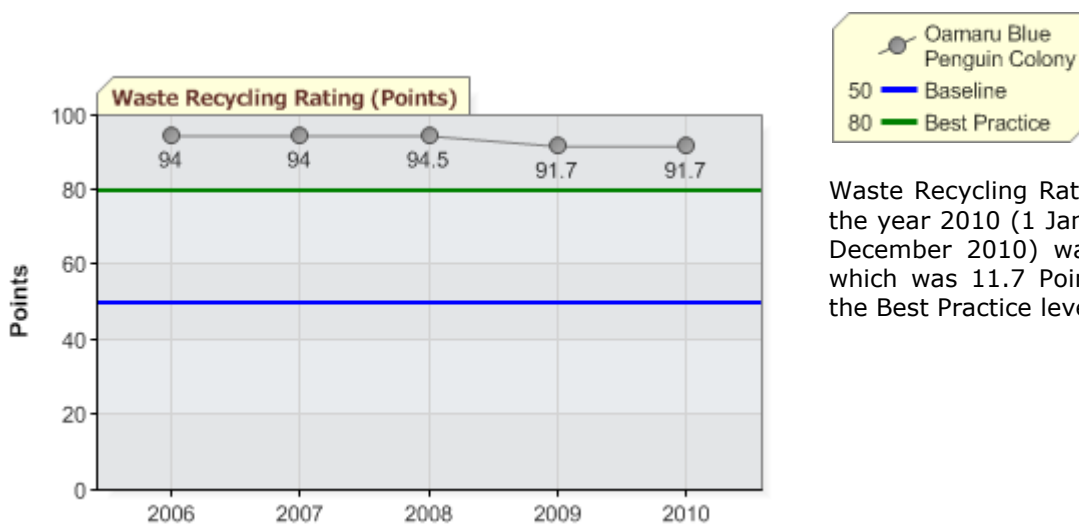
Waste Sent to Landfill (L / Customer) ★



Waste Sent to Landfill (L / Customer) for the year 2010 (1 January 2010– 31 December 2010) was 0.2 L / Customer, which was 91.7% better than the Best Practice level.

Quantity	Unit	Waste Sent to Landfill (m ³)
14	cubic metres	14.0 m ³
		14.0 m³

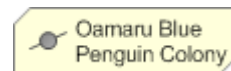
Waste Recycling Rating (Points) ★



Waste Recycling Rating (Points) for the year 2010 (1 January 2010– 31 December 2010) was 91.7 Points, which was 11.7 Points better than the Best Practice level.

Waste Recycling Measures	Frequency / Percentage Rating	Waste Recycling Rating (Points)
Glass	80-99%	88.9 Points
Paper/card	80-99%	88.9 Points
Iron & steel (ferrous metals)	Not Relevant / Not Available	
Other metals (non-ferrous)	Not Relevant / Not Available	
Plastics	80-99%	88.9 Points
Rubber	Not Relevant / Not Available	
Green waste	100%	100.0 Points
	Overall Rating:	91.7 Points

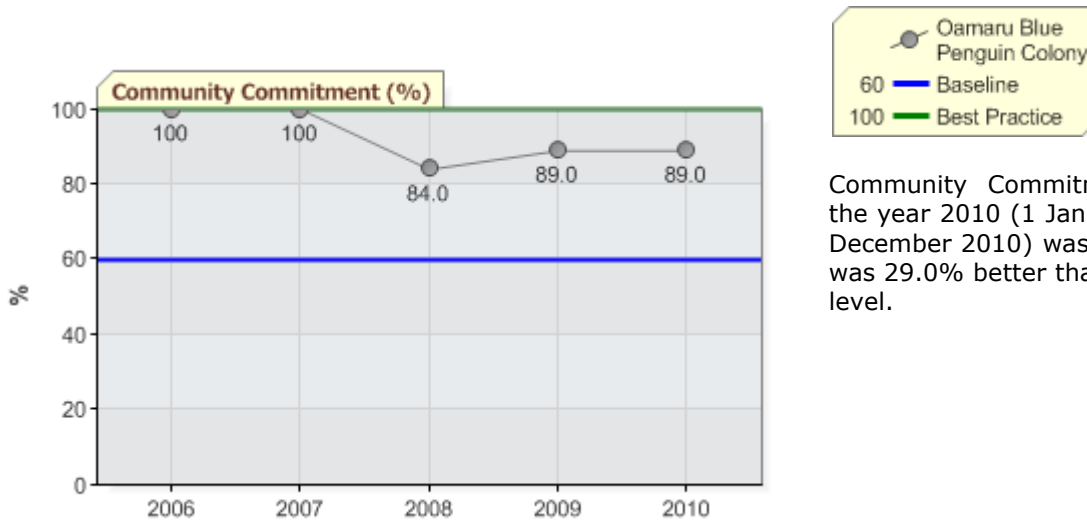
Recycled / Reused / Composted Waste (%)



Recycled / Reused / Composted Waste (%) for the year 2010 (1 January 2010– 31 December 2010) was 47.6%.

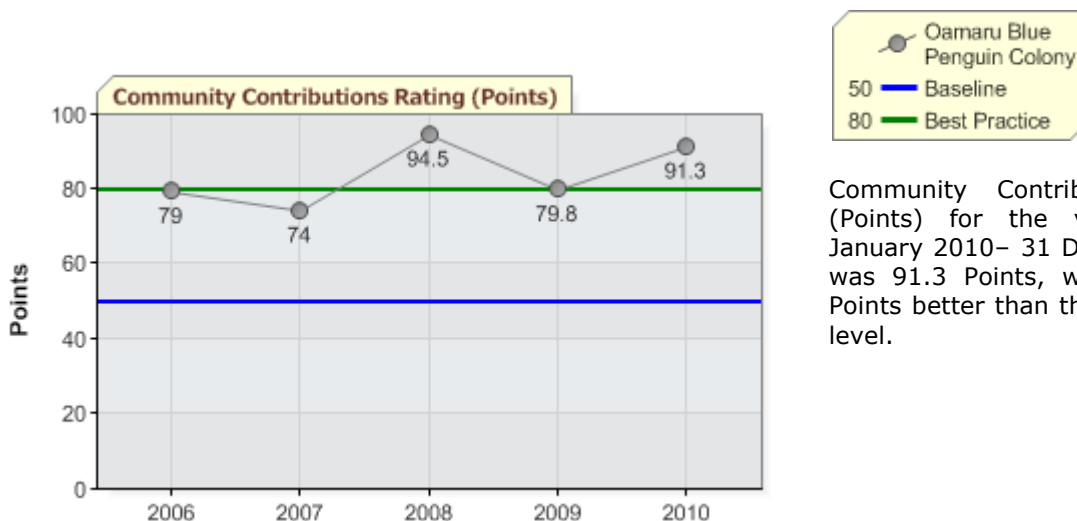
5. Community

Community Commitment (%) ✓



Community Commitment (%) for the year 2010 (1 January 2010– 31 December 2010) was 89.0%, which was 29.0% better than the Baseline level.

Community Contributions Rating (Points) ★

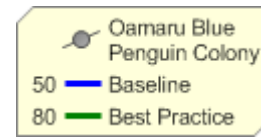
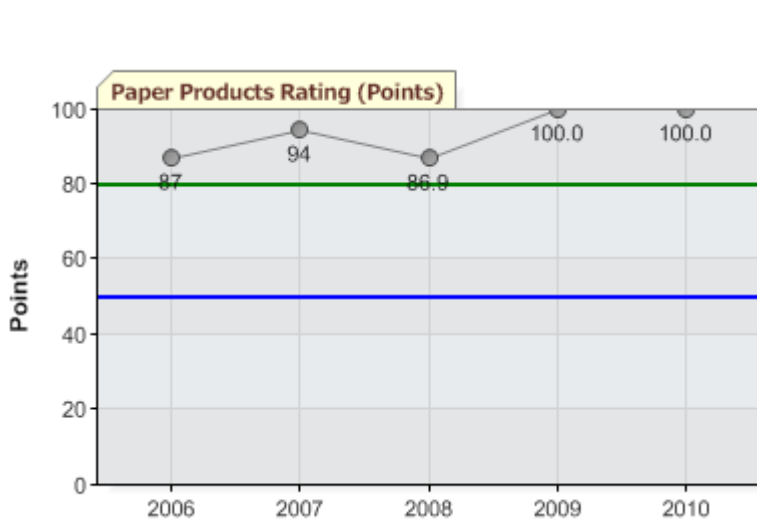


Community Contributions Rating (Points) for the year 2010 (1 January 2010– 31 December 2010) was 91.3 Points, which was 11.3 Points better than the Best Practice level.

Community Contributions Measures	Frequency / Percentage Rating	Community Contributions Rating (Points)
Net income spent on sustainability programs	10% or more	100.0 Points
Perishable purchased goods that are of local origin	40-59%	65.1 Points
Service contracts given to local contractors	100%	100.0 Points
Staff received training on sustainability issues	100%	100.0 Points
	Overall Rating:	91.3 Points

6. Paper

Paper Products Rating (Points) ★



Paper Products Rating (Points) for the year 2010 (1 January 2010– 31 December 2010) was 100.0 Points, which was 20.0 Points better than the Best Practice level.

Paper Products Measures	Frequency / Percentage Rating	Paper Products Rating (Points)
Office paper	100%	100.0 Points
Serviettes	Not Relevant / Not Available	
Tissues	Not Relevant / Not Available	
Toilet tissue	100%	100.0 Points
Paper towels	Not Relevant / Not Available	
	Overall Rating:	100.0 Points

7. Cleaning

Cleaning Products Rating (Points) ★

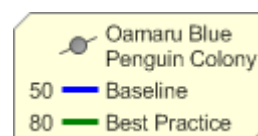
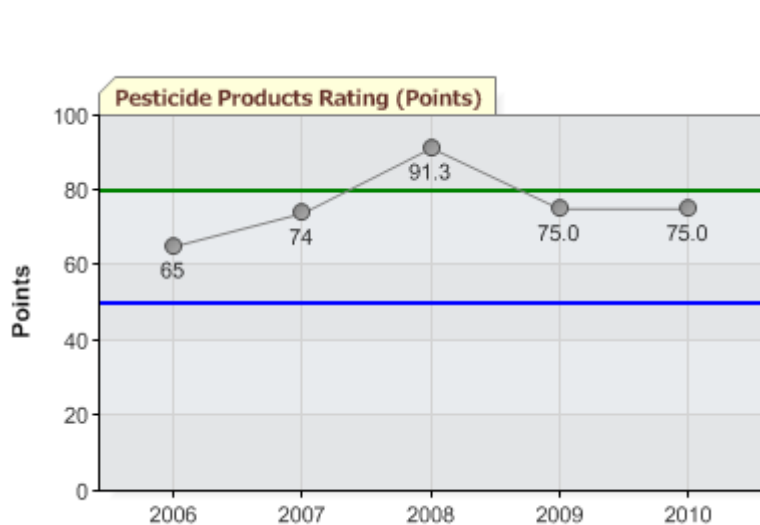


Cleaning Products Rating (Points) for the year 2010 (1 January 2010–31 December 2010) was 100.0 Points, which was 20.0 Points better than the Best Practice level.

Cleaning Products Measures	Frequency / Percentage Rating	Cleaning Products Rating (Points)
Hard floor cleaners	100%	100.0 Points
Carpet cleaners	Not Relevant / Not Available	100.0 Points
Interior surface cleaners	100%	100.0 Points
External surface cleaners	100%	100.0 Points
Glass cleaners	100%	100.0 Points
Detergents	100%	100.0 Points
Personal hygiene	100%	100.0 Points
	Overall Rating:	100.0 Points

8. Pesticides

Pesticide Products Rating (Points) ✓

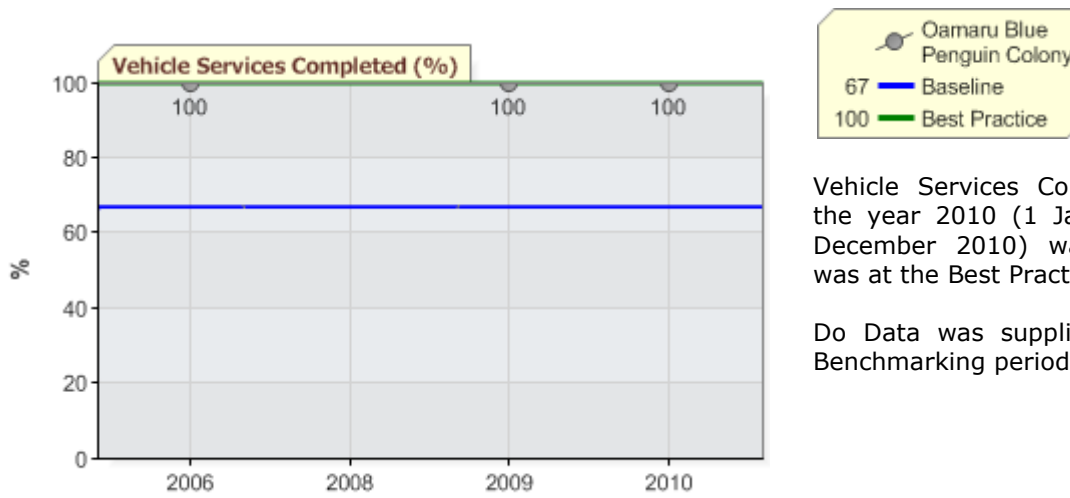


Pesticide Products Rating (Points) for the year 2010 (1 January 2010–31 December 2010) was 75.0 Points, which was 25.0 Points better than the Baseline level.

Pesticide Products Measures	Frequency / Percentage Rating	Pesticide Products Rating (Points)
Weed killers	Not Relevant / Not Available	100.0 Points
Fungal killers	Not Relevant / Not Available	100.0 Points
Rodent killers	0%	0.0 Points
Insect killers	Not Relevant / Not Available	100.0 Points
	Overall Rating:	75.0 Points

9. Sector Specific

Vehicle Services Completed (%) ★



Vehicle Services Completed (%) for the year 2010 (1 January 2010– 31 December 2010) was 100%, which was at the Best Practice level.

Do Data was supplied for the 2008 Benchmarking period.

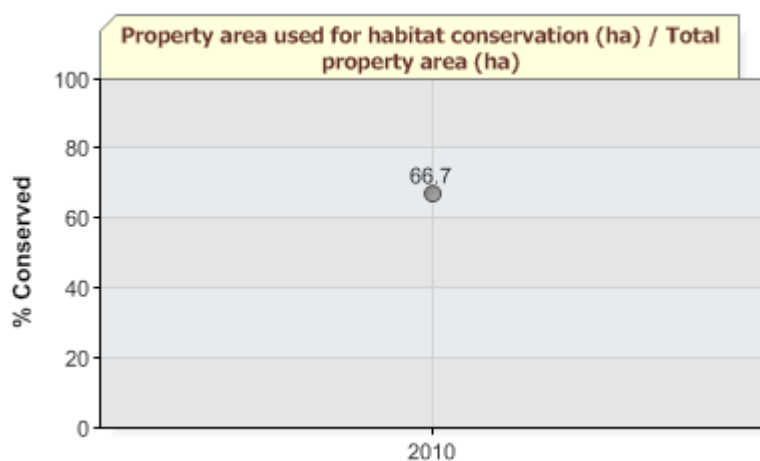
OPTIONAL BENCHMARKING INDICATORS

The **Oamaru Blue Penguin Colony** has also nominated an optional Operation Selected Indicator that they consider relevant to their specific operation and locality. The Operation Selected Indicator does not form part of the formal annual benchmarking exercise.

1. Selected Indicators

Selected Indicators are from a supplied list of EarthCheck indicators.

Property area used for habitat conservation (ha) / Total property area (ha)



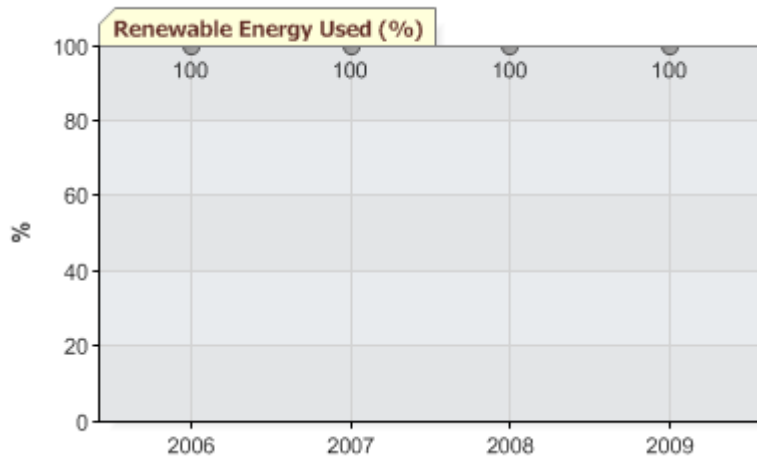
The following breakdown was provided 1 ha /1.5 ha

HISTORIC BENCHMARKING INDICATORS

1. Renewable Energy

Renewable Energy % is no longer a supplementary indicator; it is included here for historical reference.

Renewable Energy Used (%)



*The supplied data has been compiled by **Oamaru Blue Penguin Colony** in the prescribed manner, authorised by a senior executive of the company and submitted for an annual assessment.*

CONCLUSION AND RECOMMENDATIONS

Congratulations, the **Oamaru Blue Penguin Colony** has passed the requirements to be recognised as an EarthCheck Benchmarked Attraction.

In addition to having a Sustainability Policy in place, twelve of the assessed EarthCheck indicators are at or above the Baseline level. From the benchmarking data provided, nine indicators, *Energy Consumption, Greenhouse Gas Emissions (Scope 1 and Scope 2), Potable Water Consumption, Waste Sent to Landfill, Waste Recycling Rating, Community Contributions Rating, Paper Products Rating, Cleaning Products Rating and Vehicle Services Completed*, are at or above the Best Practice level, which is an achievement to be very highly commended.

It is acknowledged that whilst information presented in the benchmarking assessment report displays results for the years 2006 – 2010, it is **Oamaru Blue Penguin Colony's** fourth benchmarking assessment. The information for the 2009 benchmarking period represents historical data and has not been formally assessed. It has been requested by the operation to be displayed in the report to provide an overall reflection of the organisation's operational performance.

Improvements in all the EarthCheck indicators will not only help the environment, but can also help reduce operational costs. Due to the positive commitment that **Oamaru Blue Penguin Colony** has demonstrated to the environment, the assessors are confident that they can maintain or improve performance, where appropriate and practical, in all indicators. In line with EarthCheck Policy this would enable the **Oamaru Blue Penguin Colony** to continue to meet the benchmarking requirements of the EarthCheck program.

APPENDIX

BENCHMARKING POLICY

A member benchmarking for the 4th time (and subsequent assessments) is not permitted to fail any EarthCheck™ indicators (excluding supplementary EarthCheck™ indicators).

SUBMISSION COMMENTS

The following comments were provided at time of submission;

The Oamaru Blue Penguin Colony did not have a car in the 2010 calendar year. While we did travel, both by car and plane, no accurate records were kept regarding distance of fuel consumption. We did not provide estimates because there is documentary evidence to support any of the figures we would provide. This absence has been rectified for the current financial year and we will provide these figures from 2011 onwards.

HISTORICAL DATA

It is acknowledged that whilst information presented in the benchmarking assessment report displays results for the years 2006 – 2010, it is **Oamaru Blue Penguin Colony's** fourth benchmarking assessment. The information for the 2009 benchmarking period represents historical data and has not been formally assessed. It has been requested by the operation to be displayed in the report to provide an overall reflection of the organisation's operational performance.

ENERGY CONSUMPTION

Total *Energy Consumption* is derived from the following energy source;

Quantity	Unit	% Green Power	Provider	Energy Consumption (MJ)
36046	Kilowatt hour (kWh)	100	New Zealand	129765.6

This source produced a total of 129 765.6 MJ which equates to 1.6 MJ per Customer. Total Greenhouse Gas Emissions (Scope 1 and Scope 2) was zero.

As 100% had been submitted for Green Power clarification was sought with the **Oamaru Blue Penguin Colony**.

A "green power agreement" is where the supplier guarantees to provide a percentage of the site's purchased electricity with electricity generated from renewable energy sources (e.g. Wind, Solar or Hydro)

During clarification it was advised that;

'Our supplier produces all its power from hydro, and that is the only source of power they use in the supply'

As the grid supply is from 100% renewable energy sources the **Oamaru Blue Penguin Colony** is unable to purchase a green power agreement therefore this has been updated as Not Relevant.

RECYCLED / CAPTURES WATER

As no value was submitted clarification was sought with the **Oamaru Blue Penguin Colony** it was later advised that the value should be zero.

RECYCLED / REUSED / COMPOSTED WASTE

As no value was submitted clarification was sought with the **Oamaru Blue Penguin Colony** it was later advised that the value should be updated to 47.6%

PAPER PRODUCTS RATING

As *Serviettes* and *Tissues* were used in the previous assessment clarification was sought with the **Oamaru Blue Penguin Colony** as to why these had been selected as 'Not Relevant' in the current assessment. It was later advised that;

'As for the tissues and serviettes, we no longer purchase them for the business. Staffs occasionally bring their own, but we do not purchase them or supply them for visitors. We used to. But we do not now. So they were part of our previous assessment as they were part of our operation'.

The rating remained unchanged.



EARTHCHECK

Benchmarks Assessed by EarthCheck

SUMMARY OF SUPPLIED BENCHMARKING DATA

Activity Measures

Total Customers

80448

Supplied Benchmarking Data

Energy

Energy Consumption (MJ / Customer)

Supplied	129765.6 MJ
Calculated	1.6 MJ / Customer
Baseline	30 MJ / Customer
Best Practice	21 MJ / Customer
Difference	92.3% better than the Best Practice level

Green Power (%)

Supplied	0%
Calculated	0%

Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO₂-e / Customer)

Supplied	7029.0 kg CO ₂ -e
Calculated	0.1 kg CO ₂ -e / Customer
Baseline	1.25 kg CO ₂ -e / Customer
Best Practice	0.875 kg CO ₂ -e / Customer
Difference	90.0% better than the Best Practice level

Direct Emissions (Scope 1) (t CO₂-e / Customer)

Supplied	N/S
Calculated	N/S

Indirect Emissions (Scope 2) (kg CO₂-e / Customer)

Supplied	7029.0 kg CO ₂ -e
Calculated	0.1 kg CO ₂ -e / Customer

Water

Potable Water Consumption (L / Customer)

Supplied	400000.0 L
Calculated	5.0 L / Customer
Baseline	40 L / Customer
Best Practice	28 L / Customer
Difference	82.2% better than the Best Practice level

Water Savings Rating (Points)

Supplied	77.8 Points
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Calculated	77.8 Points
Baseline	50 Points
Best Practice	80 Points
Difference	27.8 Points better than the Baseline level

Recycled / Captured Water (%)

Supplied	0%
Calculated	0%

Waste

Waste Sent to Landfill (L / Customer)

Supplied	14000.0 L
Calculated	0.2 L / Customer
Baseline	3 L / Customer
Best Practice	2.1 L / Customer
Difference	91.7% better than the Best Practice level

Waste Recycling Rating (Points)

Supplied	91.7 Points
Calculated	91.7 Points
Baseline	50 Points
Best Practice	80 Points
Difference	11.7 Points better than the Best Practice level

Recycled / Reused / Composted Waste (%)

Supplied	47.6%
Calculated	47.6%

Community

Community Commitment (%)

Supplied	89.0%
Calculated	89.0%
Baseline	60 %
Best Practice	100 %
Difference	29.0% better than the Baseline level

Community Contributions Rating (Points)

Supplied	91.3 Points
Calculated	91.3 Points
Baseline	50 Points
Best Practice	80 Points

Difference	11.3 Points better than the Best Practice level
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Paper

Paper Products Rating (Points)

Supplied	100.0 Points
Calculated	100.0 Points
Baseline	50 Points
Best Practice	80 Points
Difference	20.0 Points better than the Best Practice level

Cleaning

Cleaning Products Rating (Points)

Supplied	100.0 Points
Calculated	100.0 Points
Baseline	50 Points
Best Practice	80 Points
Difference	20.0 Points better than the Best Practice level

Pesticides

Pesticide Products Rating (Points)

Supplied	75.0 Points
Calculated	75.0 Points
Baseline	50 Points
Best Practice	80 Points
Difference	25.0 Points better than the Baseline level

Sector Specific

Vehicle Services Completed (%)

Supplied	100%
Calculated	100%
Baseline	67 %
Best Practice	100 %
Difference	at the Best Practice level

DETERMINATION OF BASELINE AND BEST PRACTICE LEVELS

General

The values for the Baseline and Best Practice levels for each indicator are derived from extensive worldwide research into available and appropriate case studies, industry surveys, engineering design handbooks, energy, water and waste audits, and climatic and geographic conditions.

National and regional data for per capita energy use, greenhouse gas and other emissions, wastes to landfill and water consumption, where available provide background data for normalisation of the expected performance values for per customer or employee, and/or overall performance of an enterprise being benchmarked. They are used to gauge the regional or national situation and environmental performances that an enterprise is based in, and hence what are reasonable levels to expect the enterprise to achieve.

A benchmarking result at, or above, the Baseline level demonstrates to all stakeholders that the enterprise is achieving above average performance. A result below the Baseline level indicates that an enterprise can and should carry out actions that will make beneficial improvements in performance.

Consideration of Climate

A major determinant of energy consumption in some sectors, primarily those centred on buildings such as accommodation, visitor centres and administration offices will be the dominant climatic conditions in which the enterprise is located. In general, to maintain the same level of indoor comfort, enterprises operating in hot or cold climates will consume more energy than those in temperate climates.

Similarly, it is recognised that in certain sectors a major determinant of potable water consumption will be the climate in which an enterprise is located, in particular those with large grounds and/or significant water-based facilities or activities. That is, enterprises located in hot climates are more likely to consume more potable water than equivalent ones located in cooler climates. Factors that are likely to lead to a higher level of potable water consumption, for example in the accommodation sector, include increased evaporation rates of swimming pools, personal bathing and irrigation demands of grounds. In consideration of this factor, Baseline and Best Practice levels can vary in relation to country location.

Waste Sent to Landfill

The benchmark indicator used for Waste Sent to Landfill is given in litres as waste bins are usually calibrated by volume, and it has been found that the majority of operations do not have access to the weight of material disposed of. However, if a weight is supplied, standard factors are used to convert from weight (e.g., kilograms (kg)) to volume (e.g., cubic metres (m³) or litres (L)). These are: 1 kg (uncompacted waste) = 0.00333333 m³ or 3.33333 L and 1 kg (compacted waste) = 0.00153846 m³ or 1.53846 L.

Operations should make note of the level of compaction when submitting data for assessment by EarthCheck.

Review of Performance Levels

The Baseline and Best Practice performance levels for EarthCheck indicators are continuously reviewed and are likely to change over time. This review by a team of international experts, takes into account "business-as-usual" changes in practices, equipment and facilities, as well as regulations and general improvement trends in performance and procedures. This review is used to update the levels of Baseline and Best Practice, and provides useful feedback to the user of the indicators.

The list below summarises the basic generic rules used to determine Baseline and Best Practice levels for EarthCheck indicators.

- If relevant enterprise sector specific case studies are not available for a type of activity in a designated region, then national averages will be used to ascertain the Baseline level. In this case, the Best Practice level will be set at a minimum of 30% better performance than the Baseline.
- If case study or national data are not available for a specific indicator, then the first enterprise that benchmarks will have its results set as 15% better than Baseline (i.e., half way between Baseline and Best Practice).