



BENCHMARKED ASSESSMENT REPORT

ACCOMMODATION BENCHMARKING

3 Rivers Ecolodge Rosalie, Dominica

Report Date: 11 July 2006
Benchmarked Certificate Expiry: 31 October 2007

PERIOD BENCHMARKED: 1 April 2005 – 31 March 2006

Assessment Conducted by Earthcheck




Green Globe Benchmarking Results

3 Rivers Ecolodge

OVERVIEW

This annual assessment of the **3 Rivers Ecolodge** was undertaken against **earthcheck™** benchmarking indicators and checklists developed for Green Globe 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 use the Green Globe Benchmarked logo. ²

		Indicator Measure (Benchmark)
1	Sustainability policy	Policy is produced and in place
2	Energy Consumption	Energy used (MJ / Guest night)
		Renewable energy used (%) ^A
3	Water Consumption	Water used (L / Guest night)
		% of total water used is that is recycled/captured (%) ^A
		Water saving (Checklist rating)
4	Waste Production	Waste landfilled (L / Guest night)
		% of total waste that is recycled/reused (%) ^A
5	Community Commitment	Local employment (Employees living within 20 km of operation / Total employees)
		Community contributions (Checklist Rating)
6	Paper Products	Paper product types used (Checklist Rating)
7	Cleaning Products	Cleaning product types used (Checklist rating)
8	Pesticide Products	Pesticide product types used (Checklist Rating)

^A These indicators are for guidance only and do not affect the overall benchmarking evaluation

¹ Please refer to the relevant Green Globe Sector Performance Guides for more details. For frequently asked questions (FAQs) about benchmarking or specific help, please also refer to www.earthcheck.org

² To meet the requirements that allow the right to use the Green Globe Benchmarked logo, the benchmarks for all the submitted **earthcheck™** indicators should be at, or better than, the Baseline level. Baseline performance and Best Practice are set for Green Globe by the Earthcheck Organization with reference to the type of activity and appropriate national and international data which take into account social, geographical and climatic impacts.

If an operation fails to meet the minimum requirements for up to two submitted **earthcheck™** indicators (Baseline or better performance), but achieves Baseline or better performance in all the other **earthcheck™** Indicators, then the operation is allowed to use the Green Globe Benchmarked logo. It is, however, given a maximum of 12 months to improve performance in at least one of the indicators to Baseline or better performance. If on the next submission this is not achieved without substantiated evidence that the situation was beyond the control of that operation (e.g., occurrence of a natural disaster), then the right to use the Green Globe Benchmarked 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 use the Green Globe Benchmarked logo. 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. Advanced warning will be given of changes in any benchmarking related requirements and data.

Green Globe Benchmarking Results

3 Rivers Ecolodge

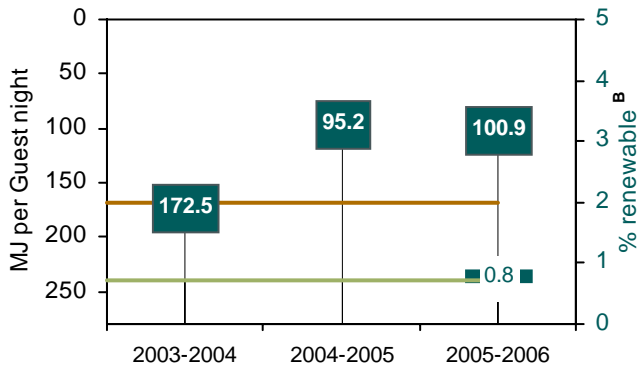


ACCOMMODATION PERFORMANCE BENCHMARKS ^A

1 Sustainability Policy ★

2 Energy Consumption

Energy consumed / Guest night ★



Carbon dioxide (CO₂) produced / Guest night ^B



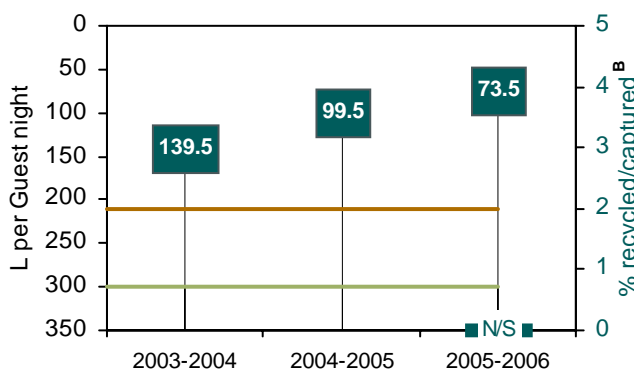
The **3 Rivers Ecolodge** consumed 100.9 MJ per Guest Night for the year 2005-2006 (1/04/05 – 31/03/06), which was 40% better than the Best Practice level.

Reported Energy Consumption for the year 2005-2006 (1/04/05 – 31/03/06) produced an estimated 6.3 kg of CO₂ per guest night.

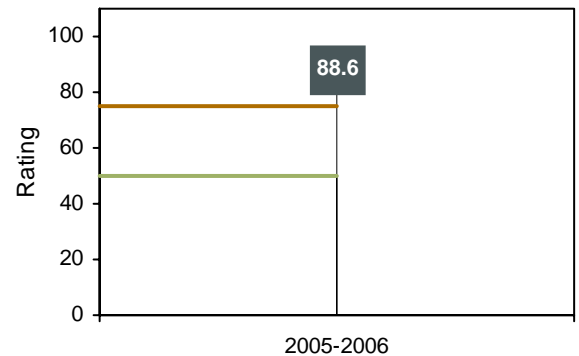
Energy type	Quantity used		Calculated Energy		Calculated CO ₂	
			MJ	% of total	kg	% of total
Solar	704.5	kWh	2536	0.7	0.0	0.0
Gasoline (Auto)	453.9	gallons (UK)	70569	20.9	4658.0	21.9
Diesel	453.0	gallons (UK)	79490	23.5	5540.0	26.1
LPG	1700.0	lbs	185692	54.9	11030.0	52.0
Totals:			338287	100	21228	100

3 Water Consumption

Water consumed / Guest night ★ ^c



Water Saving ★



The **3 Rivers Ecolodge** consumed 73.5 kL per Guest Night for the year 2005-2006 (1/04/05 – 31/03/06), which was 65% better than the Best Practice level.

The Water Saving checklist rating for the year 2005-2006 (1/04/05 – 31/03/06) was 13.6 points better than the Best Practice level.

Performance level:

Baseline —

Best Practice —

Current result:

Below Baseline ✘

At or above Baseline ✔

At or above Best Practice ★

^A Each benchmark has been assessed on a per annum (12 months) basis

^B Indicator is for guidance only and does not affect the overall benchmarking evaluation

^C Represented in litres (L), where 1000 L = 1 kilolitre (kL) or 1 cubic metre (m³)

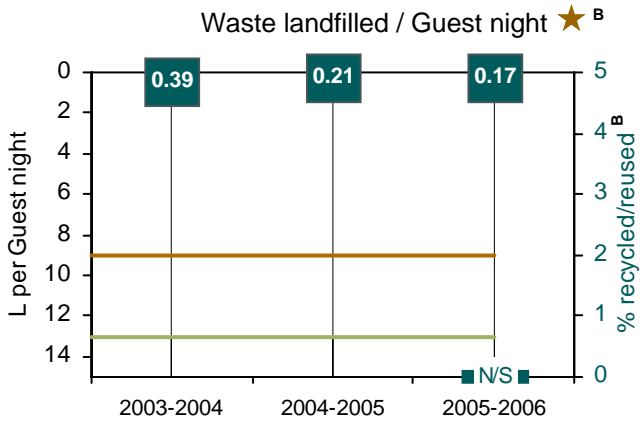
N/S = Not submitted.

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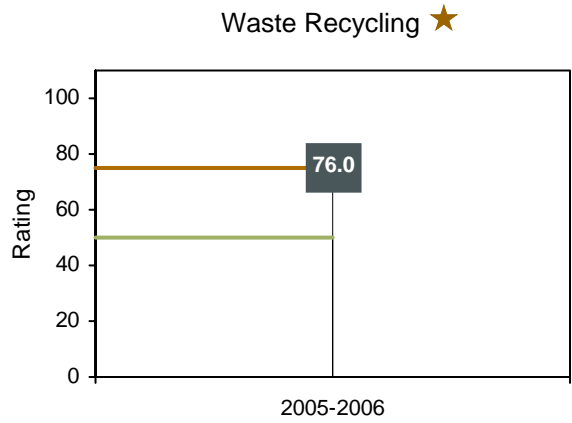


ACCOMMODATION PERFORMANCE BENCHMARKS ^A

4 Waste Production



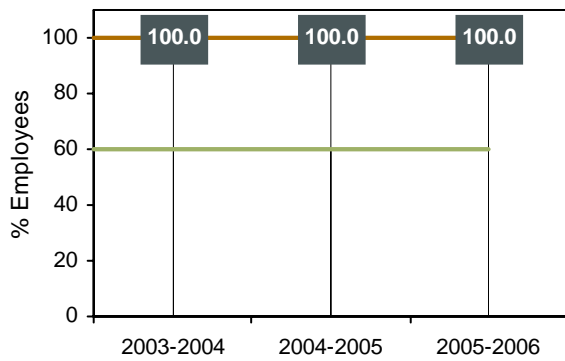
The 3 Rivers Ecolodge produced 0.17 L per Guest Night for the year 2005-2006 (1/04/05 – 31/03/06), which was 98% better than the Best Practice level.



The Waste Recycling checklist rating for the year 2005-2006 (1/04/05 – 31/03/06) was 1 point better than the Best Practice level.

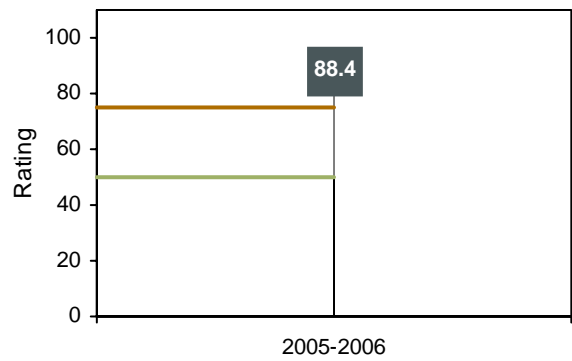
5 Community Commitment

Employees living within 20 km of operation /
Total employees ★



Community Commitment for the year 2005-2006 (1/04/05 – 31/03/06) was at the Best Practice level.

Community Contributions ★



The Community Contributions checklist rating for the year 2005-2006 (1/04/05 – 31/03/06) was 13.4 points better than the Best Practice level.

Performance level:

Baseline —

Best Practice —

Current result:

Below Baseline ✖

At or above Baseline ✔

At or above Best Practice ★

^A Each benchmark has been assessed on a per annum (12 months) basis

^B Represented in litres (L), where 1000 L = 1 kilolitre (kL) or 1 cubic metre (m³)

N/S = Not submitted.

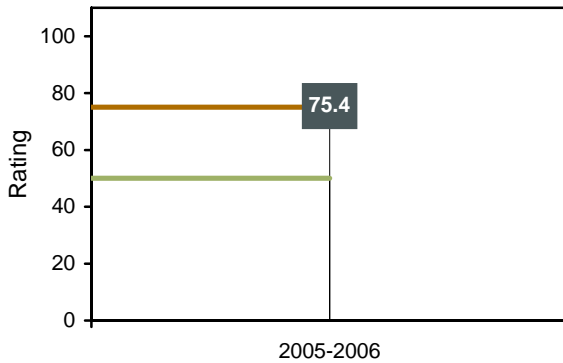
Green Globe Benchmarking Results 3 Rivers Ecolodge



ACCOMMODATION PERFORMANCE BENCHMARKS ^A

6 Paper Products

Product types used ★

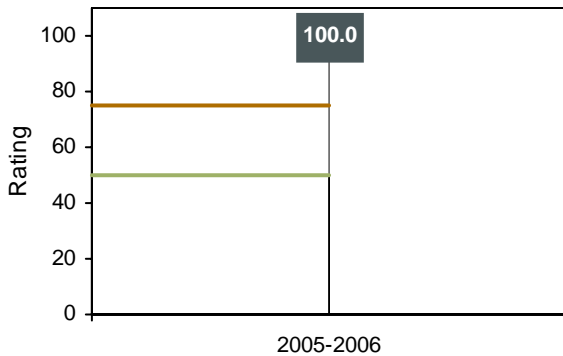


The Paper Products checklist rating for the year 2005-2006 (1/04/05 – 31/03/06) was 0.4 points better than the Best Practice level.

Chemical Products

7 Cleaning Products

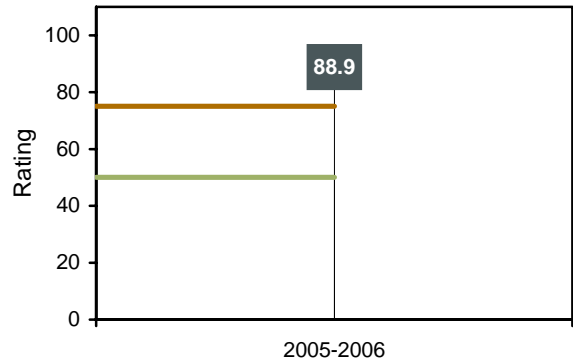
Product types used ★



The Cleaning Products checklist for the year 2005-2006 (1/04/05 – 31/03/06) was 25 points better than the Best Practice level.

8 Pesticide Products

Product types used ★



The Pesticide Products checklist rating for the year 2005-2006 (1/04/05 – 31/03/06) was 13.9 points better than the Best Practice level.

Performance level:

Baseline —

Best Practice —

Current result:

Below Baseline ✘

At or above Baseline ✔

At or above Best Practice ★

^A Each benchmark is assessed on a per annum (12 months) basis

Green Globe Benchmarking Results

3 Rivers Ecolodge

The supplied data for the **earthcheck™** indicators have been stated as compiled by the **3 Rivers Ecolodge** in the prescribed manner, authorised by a senior executive of the company and submitted to Green Globe for an annual independent assessment conducted by Earthcheck.

CONCLUSION AND RECOMMENDATIONS

Congratulations, the **3 Rivers Ecolodge** has passed the requirements to continue to be recognised as Green Globe Benchmarked Accommodation and retains the right to display the Green Globe Benchmarked logo until the certificate expiry date.³



In addition to having a Sustainability Policy in place, all ten assessed **earthcheck™** indicators are above the Baseline level. From the benchmarking data provided, all indicators, *Energy Consumption, Water Consumption, Water Saving, Waste Production, Waste Recycling, Community Commitment, Community Contributions, Paper Products, Cleaning Products, and Pesticide Products*, are at or above the Best Practice level, which is a world-class achievement to be very highly commended.^{4 5}

Improvements in all the **earthcheck™** indicators will not only help the environment, but can also help reduce operational costs. Due to the very positive commitment that the **3 Rivers Ecolodge** has demonstrated to the environment, the assessors are confident that they can maintain their very high standards and remain a leader in environmental performance. In line with Green Globe Policy this would enable Benchmarked status to be retained.

Benchmarks assessed by Earthcheck

A blue ink signature of Melinda Watt.

Melinda Watt
General Manager
Earthcheck

A blue ink signature of Dr Ashley Scott.

Dr Ashley Scott, FICHEME, FIEAus, CPEng, CEng
Director, Research & Development
Earthcheck

Report endorsed by Green Globe

A blue ink signature of Cathy Parsons.

11 July 2006

Cathy Parsons
Chief Executive Officer
Green Globe Asia Pacific

³ The Benchmarking end date was submitted as 18/05/06 (after the submission date of 27/04/06), but it was assumed by Earthcheck that the correct Benchmarking period for the submitted data is 1/04/05 to 31/03/06 (i.e., twelve months after the previous Benchmarking period).

⁴ The submitted value of 808 lbs (366.5 kg) of waste was assumed to be compacted and converted by Earthcheck into a volume using the standard conversion of 650 kg/m^3 (i.e., $366.5 \text{ kg} / 650 \text{ kg/m}^3 = 0.56 \text{ m}^3$ or 560 L). (If the waste is uncompacted, then the standard conversion is 300 kg/m^3). The **3 Rivers Ecolodge** is encouraged to specify the waste compaction level (compacted or uncompacted) for the next benchmarking assessment.

⁵ The **3 Rivers Ecolodge** is registered to be Certified by Green Globe and, therefore, does not need to submit verification documents as these should be checked as part of the Certification process.

Green Globe Benchmarking Results 3 Rivers Ecolodge

APPENDICES

Summary of 3 Rivers Ecolodge Supplied Benchmarking Data

Activity Measure						
Guest nights	3353.0	gn		Area under roof	336	m ²
Energy Consumption				Community Commitment		
	Indicator				Indicator	
Supplied	338290.0	MJ		Supplied	100.0	%
Calculated	100.9	MJ per gn		<i>Baseline</i>	60.0	%
<i>Baseline</i>	240.0	<i>MJ per gn</i>		<i>Best Practice</i>	100.0	%
<i>Best Practice</i>	168.0	<i>MJ per gn</i>				
					Checklist	
Renewable	0.8	%		Rating	88.4	
				<i>Baseline</i>	50.0	
				<i>Best Practice</i>	75.0	
Water Consumption						
	Indicator					
Supplied	246331.0	L		Paper Products		
Calculated	73.5	L per gn			Checklist	
<i>Baseline</i>	300.0	<i>L per gn</i>		Supplied Rating	75.4	
<i>Best Practice</i>	210.0	<i>L per gn</i>		<i>Baseline</i>	50.0	
				<i>Best Practice</i>	75.0	
Recycled/reused	N/S	%				
				Cleaning Products		
	Checklist				Checklist	
Supplied Rating	88.6			Supplied Rating	100.0	
<i>Baseline</i>	50.0			<i>Baseline</i>	50.0	
<i>Best Practice</i>	75.0			<i>Best Practice</i>	75.0	
Waste Production				Pesticide Products		
	Indicator				Checklist	
Supplied	808	lbs		Supplied Rating	88.9	
Converted	564	L		<i>Baseline</i>	50.0	
Calculated	0.2	L per gn		<i>Best Practice</i>	75.0	
<i>Baseline</i>	13.0	<i>L per gn</i>				
<i>Best Practice</i>	9.0	<i>L per gn</i>				
Recycled/reused	N/S	%				
	Checklist					
Supplied Rating	76.0					
<i>Baseline</i>	50.0					
<i>Best Practice</i>	75.0					

N/S = Not submitted.

Green Globe Benchmarking Results

3 Rivers Ecolodge

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 Production

The benchmark indicator used for solid waste production (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., litres (L)). These are 300 kg/m³ for uncompacted waste or 650 kg/m³ for lightly compacted waste.

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**TM 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**TM 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).