

BENCHMARKING ASSESSMENT REPORT

SPA BENCHMARKING

Six Senses Spa at Soneva Fushi Maldives


Report Date: 26 October 2007
Benchmarked Certificate Expiry: 26 October 2008

Benchmarking Data Collection Period: 1 January 2006 – 31 December 2006



OVERVIEW

This annual assessment of **Six Senses Spa at Soneva Fushi** 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 Bronze logo.²

		Indicator Measure (Benchmark)
1	Sustainability Policy	Policy is produced and in place
2	Energy Consumption	Energy used (MJ / Treatment Hour)
		Renewable energy used (%) ³
3	Water Consumption	Water used (L / Treatment Hour)
		% of total water used is that is recycled/captured (%) ³
		Water saving (Checklist rating)
		Water source (Checklist rating)
4	Waste Sent to Landfill	Waste landfilled (L / Treatment Hour)
		% of total waste that is recycled/reused (%) ³
5	Community Commitment	Waste recycling (Checklist rating)
		Local employment (Employees living within 20 km of operation / Total employees)
6	Paper Products	Community contributions (Checklist Rating)
		Paper product types used (Checklist Rating)
7	Treatment & Cleaning Products	Treatment & Cleaning product types used (Checklist rating)
		Pesticide product types used (Checklist Rating)
8	Pesticide Products	Staff Wellness (Checklist Rating)
9	Wellness	

¹ Please refer to the relevant Green Globe Sector Benchmarking Indicator (SBI) document for more details. For frequently asked questions (FAQs) about benchmarking or specific help, please log on to 'My EC3 Home' and visit your Earthcheck Benchmarking software.

² To meet the requirements that allow the right to use the Green Globe Benchmarked Bronze logo, the benchmarks for all the submitted Earthcheck indicators should be at, or better than, the Baseline level. Baseline and Best Practice performance levels are set 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 performance or better), but achieves Baseline performance or better in all the other Earthcheck indicators, then the operation is allowed to use the Green Globe Benchmarked Bronze logo. It 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 that operation (e.g., occurrence of a natural disaster), then the right to use the Green Globe Benchmarked Bronze 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 Bronze 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.

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

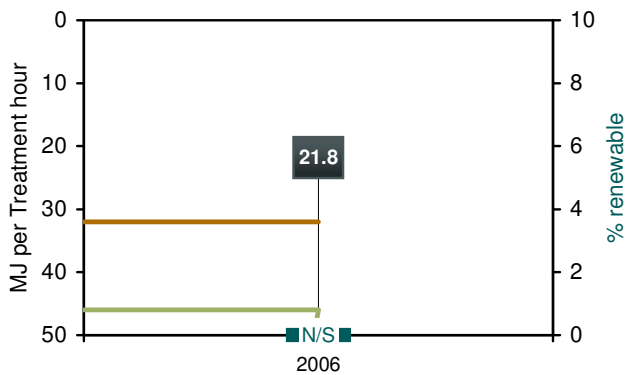
earthcheck

SPA PERFORMANCE BENCHMARKS

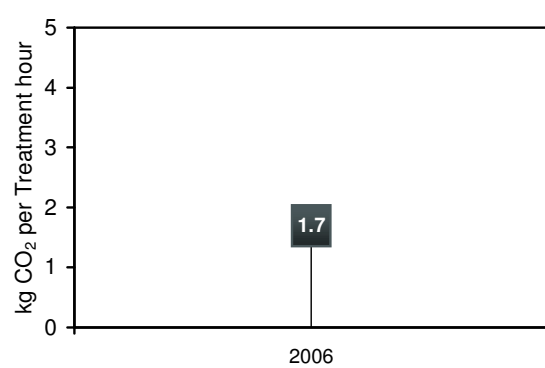
1 Sustainability Policy ★

2 Energy Consumption

Energy consumed / Treatment Hour ★



Carbon dioxide (CO₂) produced / Treatment Hour



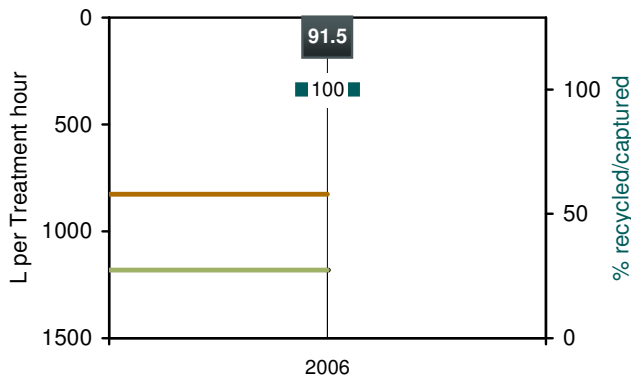
Six Senses Spa at Soneva Fushi consumed 21.8 MJ per Treatment Hour for the year 2006 (1/01/06 – 31/12/06), which was 32% better than the Best Practice level.

Reported Energy Consumption for the year 2006 (1/01/06 – 31/12/06) produced an estimated 1.7 kg of CO₂ per Treatment Hour.

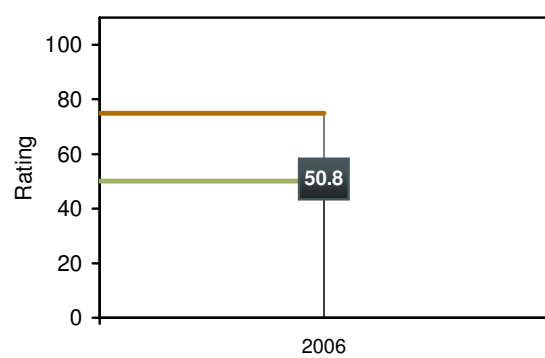
Energy type	Quantity used		Calculated Energy		Calculated CO ₂	
			MJ	% of total	kg	% of total
Coal (Black)	135,000	kWh	486,000	100	144,529	100
		Totals:	486,000	100	144,529	100

3 Water Consumption

Water consumed / Treatment hour ★



Water saving ✓

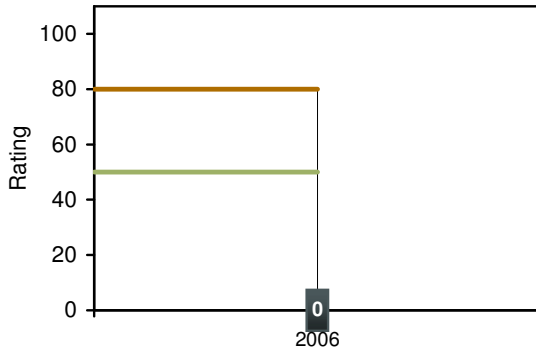


Six Senses Spa at Soneva Fushi consumed 91.5 L per Treatment Hour for the year 2006 (1/01/06 – 31/12/06), which was 89% better than the Best Practice level.

The Water Saving checklist rating for the year 2006 (1/01/06 – 31/12/06), was 0.8 points better than the Baseline level.

Performance level:	Baseline —	Best Practice —	
Current result:	Below Baseline ✘	At or above Baseline ✓	At or above Best Practice ★

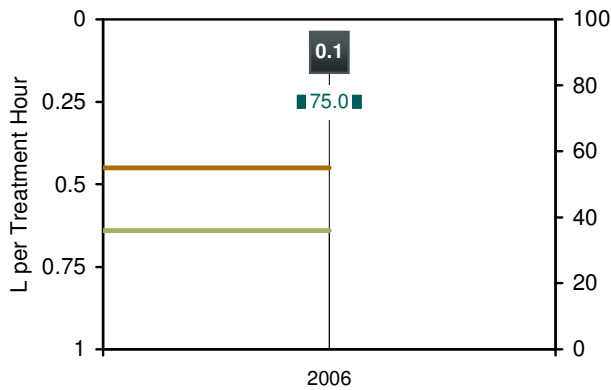
Water Source ✘



The Water Source checklist rating for the year 2006 (1/01/06 – 31/12/06) was 50 points below the Baseline level.

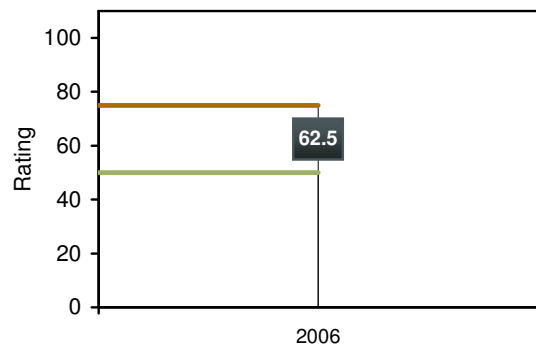
4 Waste Sent to Landfill

Waste landfilled / Treatment hour ★



Six Senses Spa at Soneva Fushi produced 0.1 L per Treatment Hour for the year 2006 (1/01/06 – 31/12/06), which was 76% better than the Best Practice level.

Waste recycling ✓



The Waste Recycling checklist rating for the year 2006 (1/01/06 – 31/12/06) was 12.5 points better than the Baseline level.

Performance level:

Baseline —

Best Practice —

Current result:

Below Baseline ✘

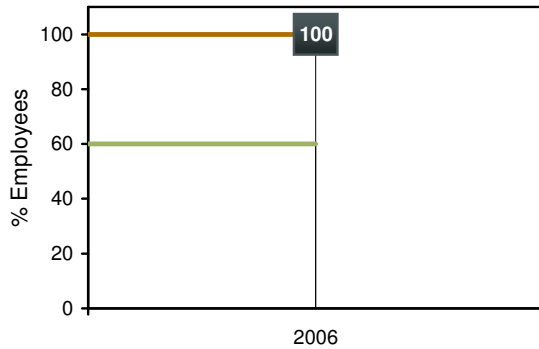
At or above Baseline ✓

At or above Best Practice ★

5 Community Commitment

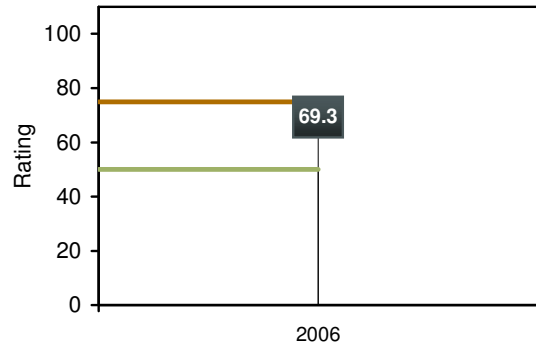
Employees living within 20 km of operation /

Total employees ★



Community Commitment for the year 2006 (1/01/06 – 31/12/06) was at Best Practice level.

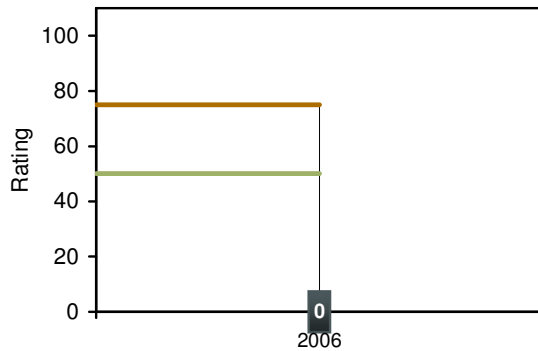
Community contributions ✓



The Community Contributions checklist rating for the year 2006 (1/01/06 – 31/12/06) was 19.3 points better than the Baseline level.

6 Paper Products

Product types used ✘



The Paper Products checklist rating for the year 2006 (1/01/06 – 31/12/06) was 50 points below the Baseline level.

Performance level:

Baseline —

Best Practice —

Current result:

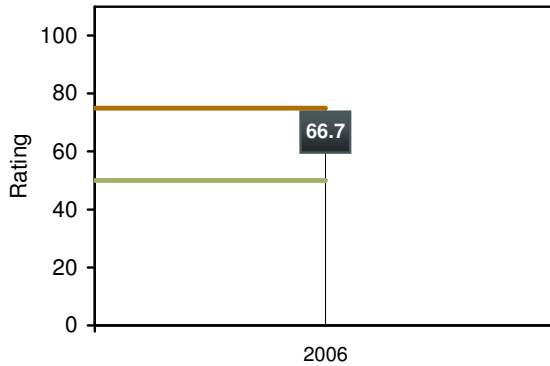
Below Baseline ✘

At or above Baseline ✓

At or above Best Practice ★

7 Treatment & Cleaning Products

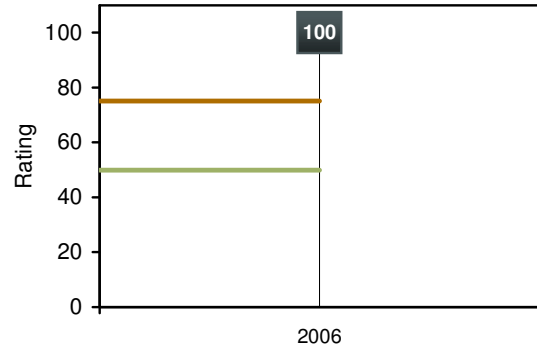
Product types used ✓



The Treatment & Cleaning Products checklist for the year 2006 (1/01/06 – 31/12/06) was 16.7 points better than the Baseline level.

8 Pesticide Products

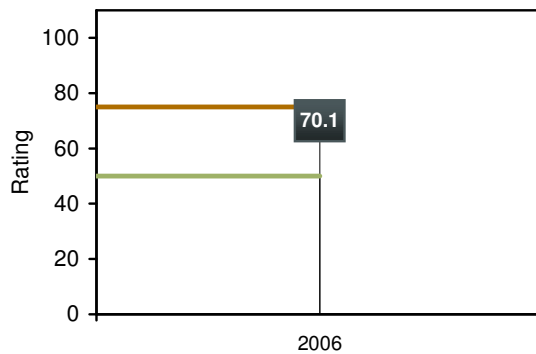
Product types used ★



As **Six Senses Spa at Soneva Fushi** does not use any pesticide products (which is a positive outcome), a rating of 100 has been reported for this indicator on the basis that no use represents a Best Practice achievement. The Pesticide Products checklist rating for the year 2006 (1/01/06 – 31/12/06) was, therefore, 25 points better than the Best Practice level.

9 Wellness

Staff Wellness ✓



The Wellness checklist rating for the year 2006 (1/01/06–31/12/06) was 20.1 points better than the Baseline level.

Performance level:

Baseline —

Best Practice —

Current result:

Below Baseline ✘

At or above Baseline ✓

At or above Best Practice ★

The supplied data has been compiled by **Six Senses Spa at Soneva Fushi** in the prescribed manner, authorised by a senior executive of the company and submitted for an annual assessment.

CONCLUSION AND RECOMMENDATIONS

Congratulations, **Six Senses Spa at Soneva Fushi** has passed the requirements of a first-time benchmarking organisation to become recognised as a Green Globe Benchmarked Spa Operation and retains the right to display the Green Globe Benchmarked Bronze logo until the certificate expiry date.



In addition to having a Sustainability Policy in place, ten of the twelve assessed Earthcheck indicators are above the Baseline level. From the benchmarking data provided, five indicators, *Energy Consumption*, *Water Consumption*, *Waste Sent to Landfill*, *Community Commitment*, and *Pesticide Products* are above the Best Practice level, which is an achievement to be highly commended.

The two indicators that fell below the Baseline level were *Paper Products* and *Water Source*:

Paper Products

The rating for *Paper Products* was 50 points below the Baseline performance level. The **Six Senses Spa at Soneva Fushi** is encouraged, therefore, to further investigate available ecolabel or recyclable paper products (for office paper, serviettes, tissues, toilet tissue, and paper towels). Products which carry an ecolabel usually avoid the use of chlorine-based bleaches, and use biodegradable inks and dyes and use timber from sustainable plantations. Sourcing these types of products minimises the consumption of natural resources and results in the reduction of greenhouse gas emissions associated with raw material consumption.

Water Source

The value for *Water Source* was 50 points below the Baseline performance level. **Six Senses Spa at Soneva Fushi** is encouraged, therefore, to consider using non-hazardous rain water and/or grey water for watering plants and washing exterior surfaces.

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 **Six Senses Spa at Soneva Fushi** has demonstrated to the environment, the assessors are confident that they can maintain or improve performance, where appropriate and practical, in all indicators.

In particular over the next 12 months, **Six Senses Spa at Soneva Fushi** is encouraged to ensure that *Paper Products* and *Water Source* are at Baseline performance or better. In line with Green Globe Policy this would enable Benchmarked Bronze status to be retained.

APPENDIX

AREA UNDER ROOF

The spa area under roof was originally stated to be 5000 square metres. This was later revised to be 5000 square feet, equal to 464 square metres.

ENERGY CONSUMPTION

Six Senses Spa at Soneva Fushi originally stated their total energy consumption was 13,237 MJ.

However, whilst clarifying questions in relation to the benchmarking data, **Six Senses Spa at Soneva Fushi** revised their energy consumption, stating that they consumed 170 kWh per day which equates to 62,050 kWh per annum. This is the equivalent of 223,380 MJ per annum

WATER CONSUMPTION

Six Senses Spa at Soneva Fushi originally stated that their water consumption was 14,693 cubic metres. This was later revised to be 936 cubic metres.

WASTE SENT TO LANDFILL

The submitted value of 316 kg (specified by the operator as uncompacted waste) has been converted into a volume by using the standard conversion of 300 kg/m³ for uncompacted waste (i.e. 316 kg / 300 kg/m³ = 1.1 m³ or 1,100 L).

This equates to 0.1 L per treatment hour.



Benchmarks assessed by Earthcheck



Report endorsed by Green Globe



This Report is recognised under the **PATA and Green Globe Co-operative Agreement** that provides PATA with a real impetus to advance the sustainability and goals of the Association.



Under an agreement with Green Globe Asia Pacific (GGAP), the Caribbean Alliance for Sustainable Tourism (CAST) supports the delivery and promotion of the Green Globe program in the Caribbean.

Green Globe is managed by EC3 Global, a wholly owned subsidiary of the Sustainable Tourism Cooperative Research Centre (STCRC), which is the largest sustainable tourism research organisation in the world. The CRC is an Australian Government Initiative.



An Australian Government Initiative

SUMMARY OF SUPPLIED BENCHMARKING DATA

Activity Measure(s)					
Guest Treatment Hours	10,228	treatment hours			
Area Under Roof	464	m ²			
Energy Consumption			Community Commitment		
	Indicator			Indicator	
Supplied	223,380	MJ		Supplied	100 %
Calculated	21.8	MJ per th		Baseline	60 %
Baseline	46	MJ per th		Best Practice	100 %
Best Practice	32	MJ per th		% difference	0.0 at BP
% difference	32	better than BP			
				Checklist	
Renewable	N/S	%		Rating	69.3
				Baseline	50
Total CO ₂	17,300	kg		Best Practice	75
	1.7	kg per th		points difference	19.3 better than BL
Water Consumption			Paper Products		
	Indicator			Checklist	
Supplied	936	m ³		Supplied Rating	0
Calculated	91.5	L per th		Baseline	50
Baseline	1181	L per th		Best Practice	75
Best Practice	827	L per th		points difference	50.0 below BL
% difference	89	better than BP			
Recycled/captured	100	%		Checklist	
				Supplied Rating	66.7
				Baseline	50
Water Saving Checklist			Treatment & Cleaning Products		
Supplied Rating	50.8			Supplied Rating	66.7
Baseline	50			Baseline	50
Best Practice	75			Best Practice	75
points difference	0.8	better than BL		points difference	16.7 better than BL
Waste Sent to Landfill			Pesticide Products		
	Indicator			Checklist	
Supplied	1.10	m ³		Supplied Rating	N.A. - 100
Converted	1,100	L		Baseline	50
Calculated	0.1	L per th		Best Practice	75
Baseline	0.64	L per th		points difference	25.0 better than BP
Best Practice	0.45	L per th			
% difference	76	better than BP		Water Source	
				Checklist	
Recycled/reused	75.0	%		Supplied Rating	0
				Baseline	50
				Best Practice	80
				points difference	50.0 below BL
	Checklist				
Supplied Rating	62.5			Wellness	
Baseline	50			Checklist	
Best Practice	75			Supplied Rating	70.1
points difference	12.5	better than BL		Baseline	50
				Best Practice	75
				points difference	20.1 better than BL

N/S - Not submitted.

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 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 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).