

BENCHMARKING ASSESSMENT REPORT

SPA BENCHMARKING

Six Senses Spa at Evason Phuket Rawai, Thailand


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 Evason Phuket** 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.

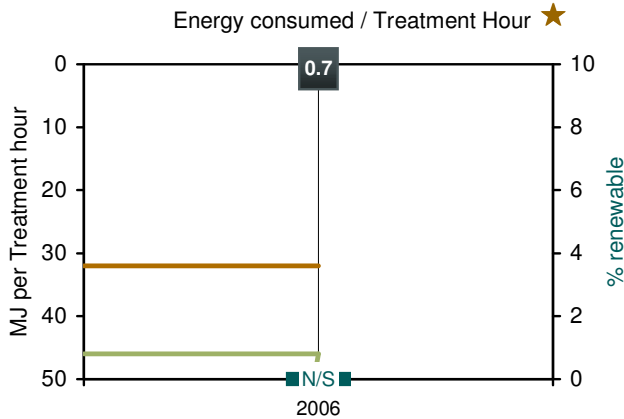
³ These indicators are for guidance only and do not affect the overall benchmarking evaluation.

earthcheck

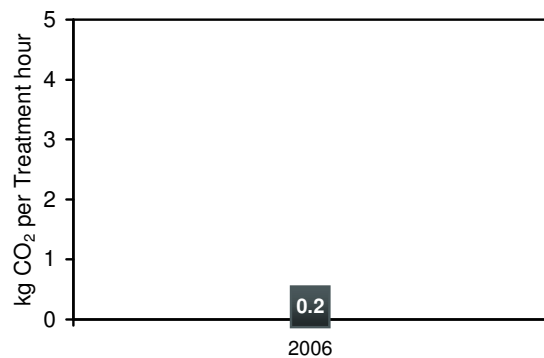
SPA PERFORMANCE BENCHMARKS

1 Sustainability Policy ★

2 Energy Consumption



Carbon dioxide (CO₂) produced / Treatment Hour

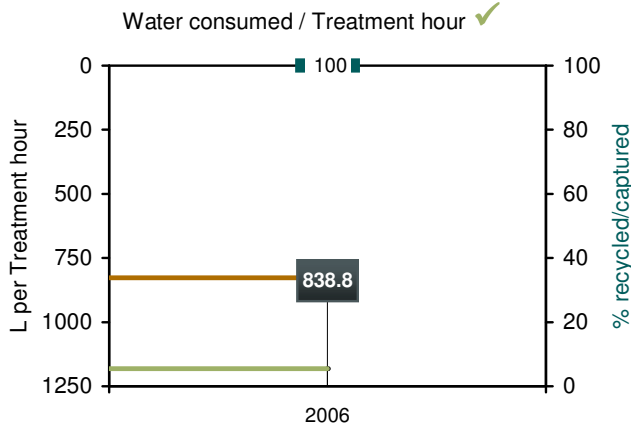


Six Senses Spa at Evason Phuket consumed 0.7 MJ per Treatment Hour for the year 2006 (1/01/06 – 31/12/06), which was 98% better than the Best Practice level.

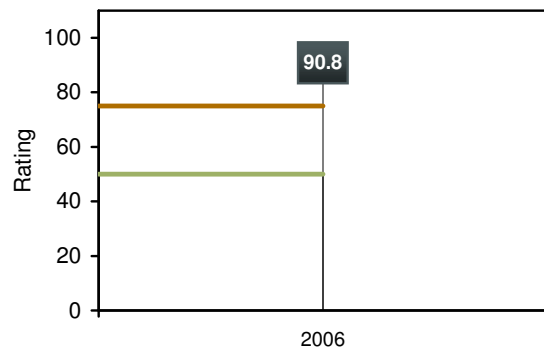
Reported Energy Consumption for the year 2006 (1/01/06 – 31/12/06) produced an estimated 0.2 kg of CO₂ per Treatment Hour.

Energy type	Quantity used		Calculated Energy		Calculated CO ₂	
			MJ	% of total	kg	% of total
Black Coal	3,462	kWh	12,463	100.0	3,706	100.0
Totals:			12,463	100	3,706	100

3 Water Consumption



Water saving ★



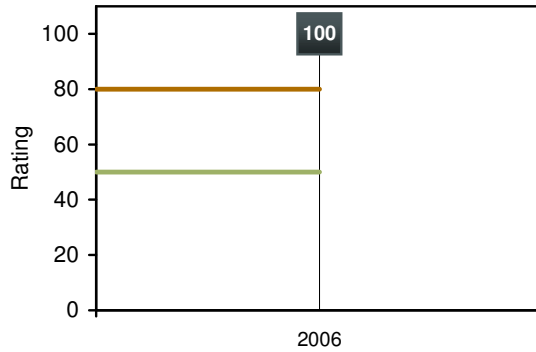
Six Senses Spa at Evason Phuket consumed 838.8 L per Treatment Hour for the year 2006 (1/01/06 – 31/12/06), which was 29% better than the Baseline level.

The Water Saving checklist rating for the year 2006 (1/01/06 – 31/12/06), was 15.8 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 ★

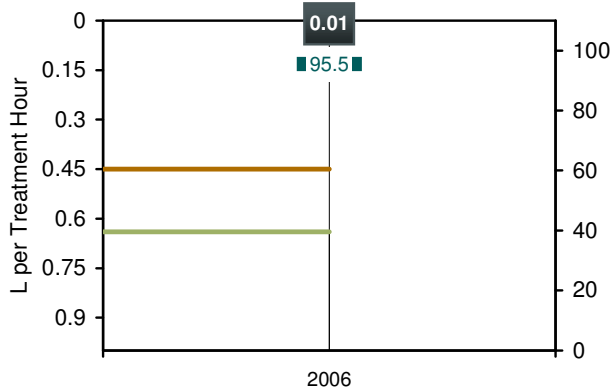
Water Source ★



The Water Source checklist rating for the year 2006 (1/01/06 – 31/12/06) was 20 points better than the Best Practice level.

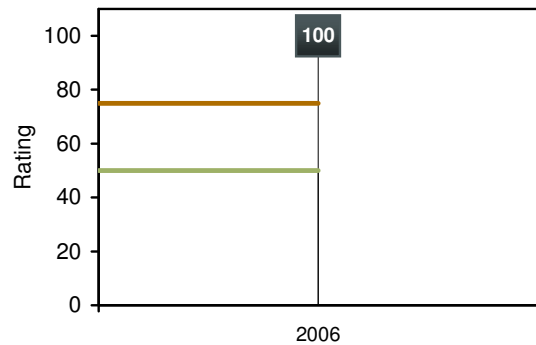
4 Waste Sent to Landfill

Waste landfilled / Treatment hour ★



Six Senses Spa at Evason Phuket produced 0.01 L per Treatment Hour for the year 2006 (1/01/06 – 31/12/06), which was 98 % better than the Best Practice level.

Waste recycling ★



The Waste Recycling checklist rating for the year 2006 (1/01/06 – 31/12/06) was 25 points better than the Best Practice level.

Performance level:

Baseline

Best Practice

Current result:

Below Baseline ✖

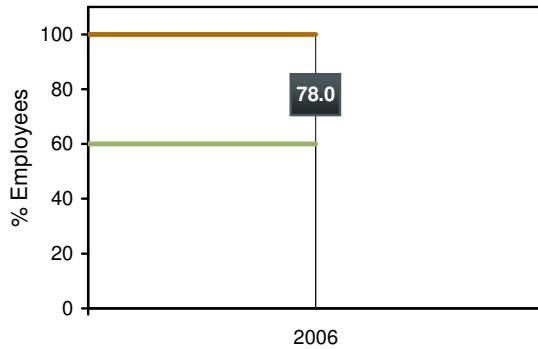
At or above Baseline ✔

At or above Best Practice ★

5 Community Commitment

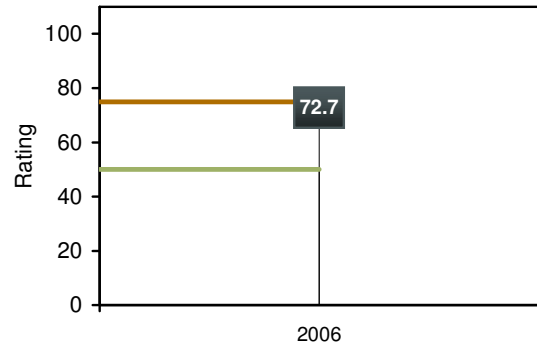
Employees living within 20 km of operation /

Total employees ✓



Community Commitment for the year 2006 (1/01/06 – 31/12/06) was 18% better than the Baseline level.

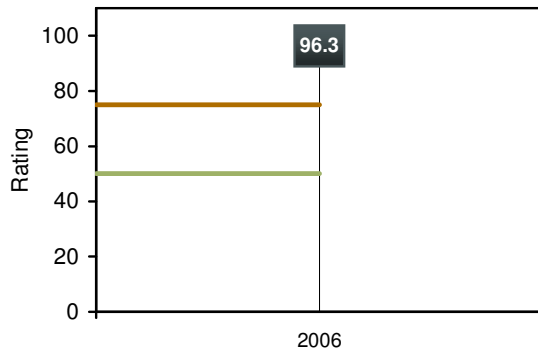
Community contributions ✓



The Community Contributions checklist rating for the year 2006 (1/01/06 – 31/12/06) was 22.7 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 21.3 points better than the Best Practice level.

Performance level:

Baseline —

Best Practice —

Current result:

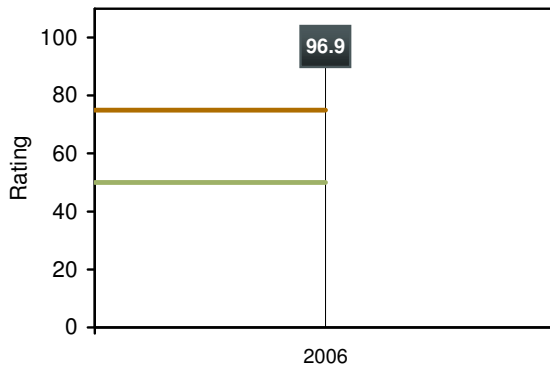
Below Baseline ✖

At or above Baseline ✓

At or above Best Practice ★

7 Treatment & Cleaning Products

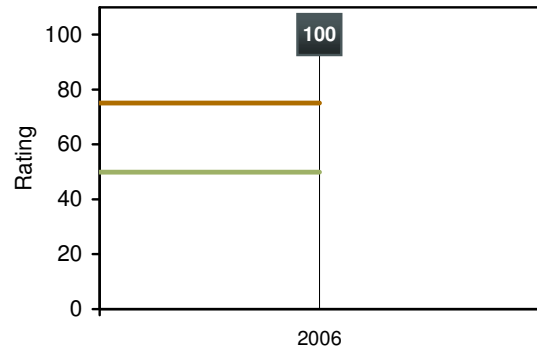
Product types used ★



The Treatment & Cleaning Products checklist for the year 2006 (1/01/06 – 31/12/06) was 21.9 points better than the Best Practice level.

8 Pesticide Products

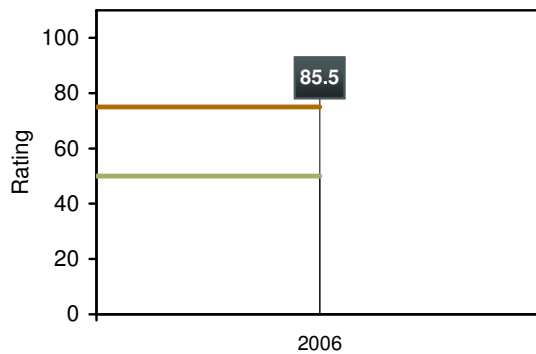
Product types used ★



As **Six Senses Spa at Evason Phuket** 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 10.5 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 ★

The supplied data has been compiled by **Six Senses Spa at Evason Phuket** 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 Evason Phuket** 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, all twelve of the assessed Earthcheck indicators are above the Baseline level. From the benchmarking data provided, nine indicators, *Energy Consumption, Water Saving, Waste Sent to Landfill, Waste Recycling, Paper Products, Treatment & Cleaning Products, Pesticide Products, Wellness and Water Source* are above the Best Practice level, which is an excellent achievement to be very highly commended.

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 Evason Phuket** 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.



APPENDIX

WASTE SENT TO LANDFILL

The submitted value of 51 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. 51 kg / 300 kg/m³ = 0.2 m³ or 200 L).

This equates to 0.01 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	17,633	treatment hours				
Area Under Roof	454	m ²				
Energy Consumption				Community Commitment		
	Indicator			Supplied	Indicator	
Supplied	12,463	MJ		Supplied	78	%
Calculated	0.7	MJ per th		Baseline	60	%
Baseline	46	MJ per th		Best Practice	100	%
Best Practice	32	MJ per th		% difference	18.0	better than BL
% difference	98	better than BP				
					Checklist	
Renewable	N/S	%		Rating	72.7	
				Baseline	50	
Total CO ₂	3,706	kg		Best Practice	75	
	0.2	kg per th		points difference	22.7	better than BL
Water Consumption				Paper Products		
	Indicator				Checklist	
Supplied	14,790	m ³		Supplied Rating	96.3	
Calculated	838.8	L per th		Baseline	50	
Baseline	1181	L per th		Best Practice	75	
Best Practice	827	L per th		points difference	21.3	better than BP
% difference	29	better than BL				
				Treatment & Cleaning Products		
Recycled/captured	100	%			Checklist	
				Supplied Rating	96.9	
				Baseline	50	
				Best Practice	75	
				points difference	21.9	better than BP
Water Saving Checklist				Pesticide Products		
Supplied Rating	90.8				Checklist	
Baseline	50			Supplied Rating	N.A. - 100	
Best Practice	75			Baseline	50	
points difference	15.8	better than BP		Best Practice	75	
				points difference	25.0	better than BP
Waste Sent to Landfill				Water Source		
	Indicator				Checklist	
Supplied	0.20	m ³		Supplied Rating	100	
Converted	200	L		Baseline	50	
Calculated	0.01	L per th		Best Practice	80	
Baseline	0.64	L per th		points difference	20.0	better than BP
Best Practice	0.45	L per th				
% difference	98	better than BP				
Recycled/reused	95.5	%		Wellness		
					Checklist	
	Checklist			Supplied Rating	85.5	
Supplied Rating	100.0			Baseline	50	
Baseline	50			Best Practice	75	
Best Practice	75			points difference	10.5	better than BP
points difference	25.0	better than BP				

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).