

# **BENCHMARKING ASSESSMENT REPORT**

## **ACCOMMODATION BENCHMARKING**

### **The Tamarind Tree Hotel & Restaurant Roseau, Dominica**


**Report Date: 23 October 2007**  
**Benchmarked Certificate Expiry: 30 October 2008**

Benchmarking Data Collection Period: 1 October 2006 – 30 September 2007



## OVERVIEW

This annual assessment of **The Tamarind Tree Hotel & Restaurant** was undertaken against Earthcheck benchmarking indicators and checklists developed for Green Globe and listed below. <sup>1</sup> 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. <sup>2</sup>

	Indicator Measure (Benchmark)
1	Sustainability Policy Policy is produced and in place
2	Energy Consumption Energy used (MJ / Guest Night) Renewable energy used (%) <sup>3</sup>
3	Water Consumption Water used (L / Guest Night) % of total water used is that is recycled/captured (%) <sup>3</sup> Water saving (Checklist rating)
4	Waste Sent to Landfill Waste landfilled (L / Guest Night) % of total waste that is recycled/reused (%) <sup>3</sup> Waste recycling (Checklist rating)
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)

<sup>1</sup> 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.

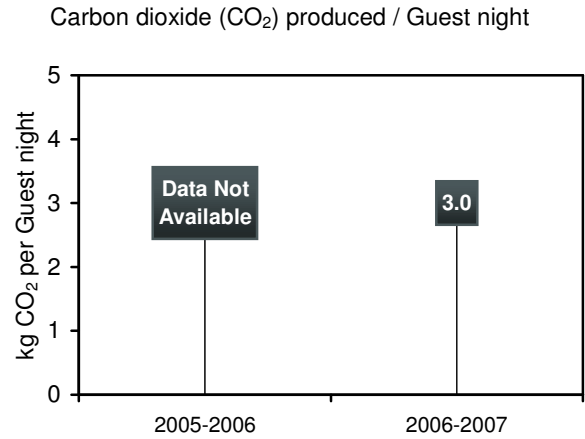
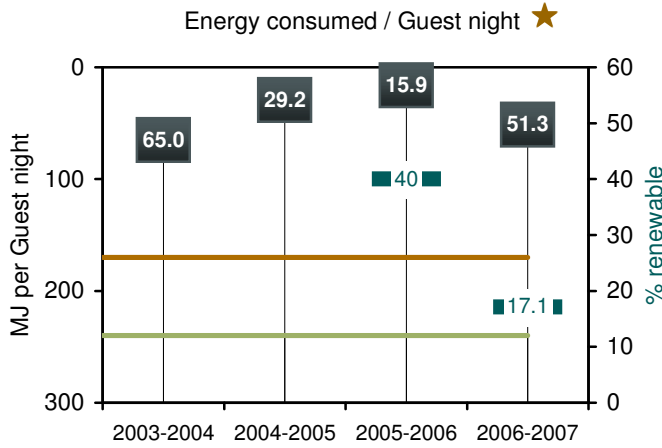
<sup>2</sup> To meet the requirements that allow the right to use the Green Globe Benchmarked Bronze logo, the benchmarks for all the submitted Earthcheck indicators should be at, or better than, the Baseline level. Baseline and Best Practice performance levels are set with reference to the type of activity 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.

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

**1 Sustainability Policy ★**  
**2 Energy Consumption**

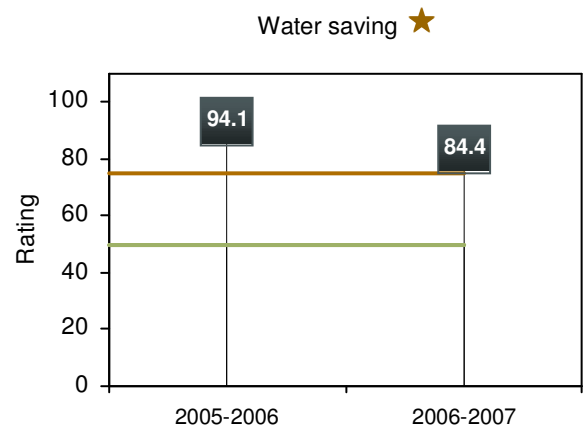
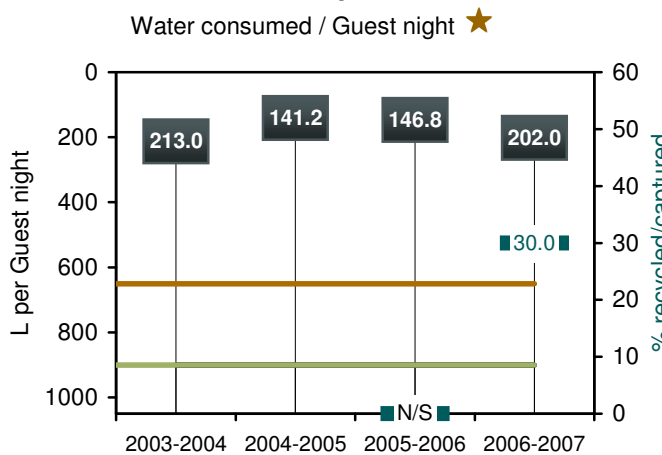


The Tamarind Tree Hotel & Restaurant consumed 51.3 MJ per Guest Night for the year 2006 – 2007 (1/10/06 – 30/09/07), which was 70% better than the Best Practice level.

Reported Energy Consumption for the year 2006 – 2007 (1/10/06 – 30/09/07) produced an estimated 3 kg of CO<sub>2</sub> per Guest Night.

Energy type	Quantity used		Calculated Energy		Calculated CO <sub>2</sub>	
			MJ	% of total	kg	% of total
Diesel	14,555	kWh	52,398	25.7	4,058	34.7
Hydro	9,704	kWh	34,933	17.1	0	0.0
LPG	3,571	kWh	12,856	6.3	764	6.5
Gasoline (Auto)	3,043	L	104,054	50.9	6,868	58.8
		Totals:	204,241	100	11,689	100

**3 Water Consumption**



The Tamarind Tree Hotel & Restaurant consumed 202 L per Guest Night for the year 2006 – 2007 (1/10/06 – 30/09/07), which was 69% better than the Best Practice level.

The Water Saving checklist rating for the year 2006 – 2007 (1/10/06 – 30/09/07), was 9.4 points better than the Best Practice level.

**Performance level:**

Baseline —

Best Practice —

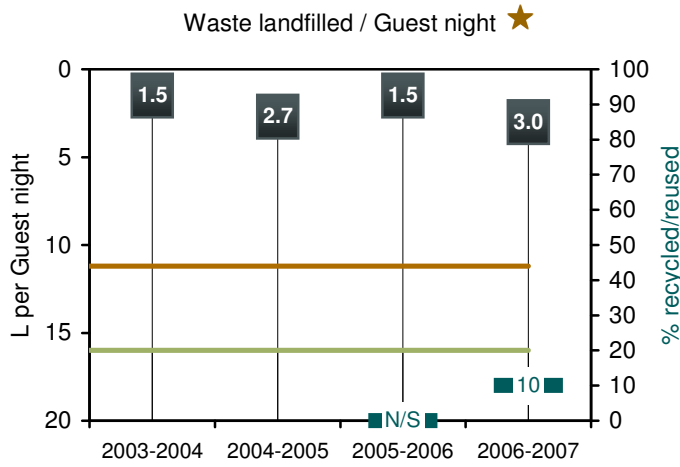
**Current result:**

Below Baseline ✖

At or above Baseline ✔

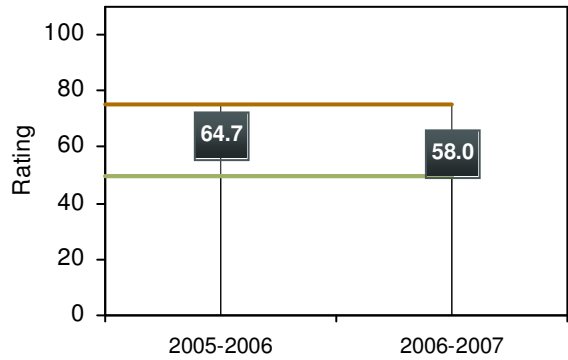
At or above Best Practice ★

**4 Waste Sent to Landfill**



The Tamarind Tree Hotel & Restaurant produced 3.0 L per Guest Night for the year 2006 – 2007 (1/10/06 – 30/09/07), which was 73% better than the Best Practice level.

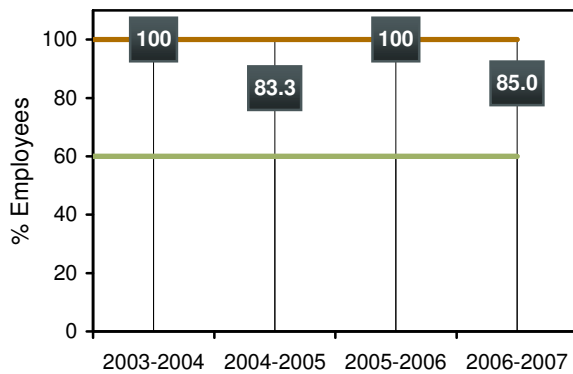
Waste recycling ✓



The Waste Recycling checklist rating for the year 2006 – 2007 (1/10/06 – 30/09/07) was 8 points better than the Baseline level.

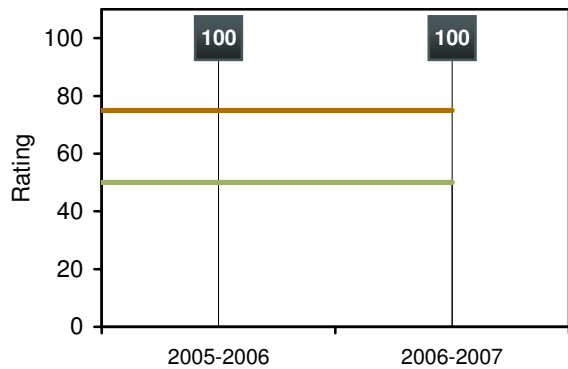
**5 Community Commitment**

Employees living within 20 km of operation / Total employees ✓



Community Commitment for the year 2006 – 2007 (1/10/06 – 30/09/07) was 25% better than the Baseline level.

Community contributions ★



The Community Contributions checklist rating for the year 2006 – 2007 (1/10/06 – 30/09/07) was 25 points better than the Best Practice level.

**Performance level:**

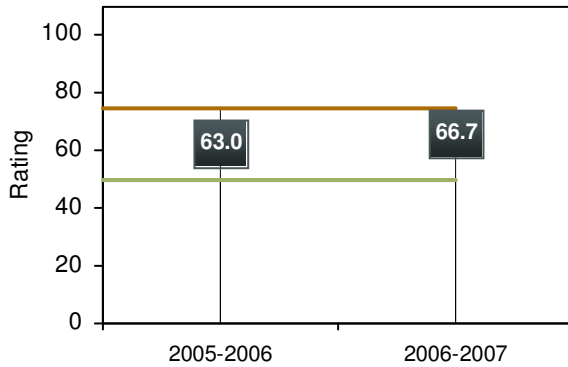
Baseline — Best Practice —

**Current result:**

Below Baseline ✖ At or above Baseline ✓ At or above Best Practice ★

**6 Paper Products**

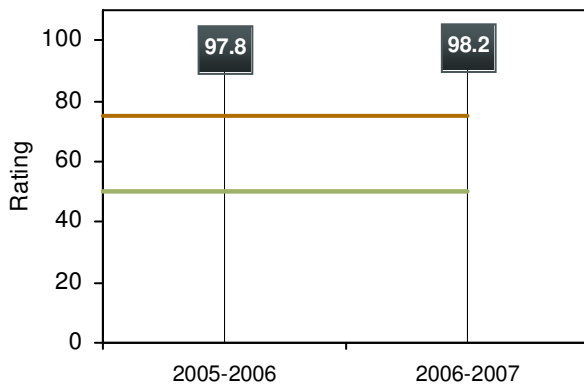
Product types used ✓



The Paper Products checklist rating for the year 2006 – 2007 (1/10/06 – 30/09/07) was 16.7 points better than the Baseline level.

**7 Chemical Products  
Cleaning Products**

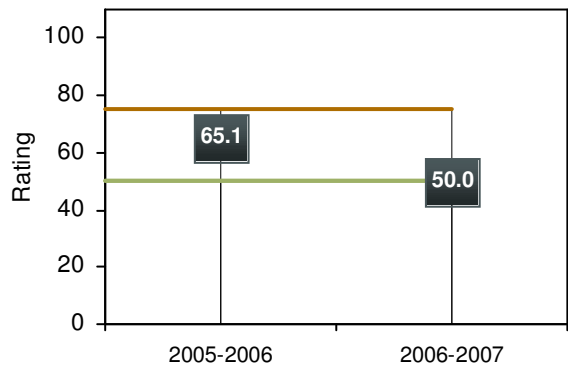
Product types used ★



The Cleaning Products checklist for the year 2006 – 2007 (1/10/06 – 30/09/07) was 23.2 points better than the Best Practice level.

**8 Pesticide Products**

Product types used ✓



The Pesticide Products checklist rating for the year 2006 – 2007 (1/10/06 – 30/09/07) was at 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 **The Tamarind Tree Hotel & Restaurant** in the prescribed manner, authorised by a senior executive of the company and submitted for an annual assessment.

## CONCLUSION AND RECOMMENDATIONS

Congratulations, **The Tamarind Tree Hotel & Restaurant** has passed the requirements to continue to be recognised as Green Globe Benchmarked Accommodation 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 ten of the assessed Earthcheck indicators are above the Baseline level. From the benchmarking data provided, six indicators, *Energy Consumption*, *Water Consumption*, *Water Saving*, *Waste Sent to Landfill*, *Community Contributions*, and *Cleaning Products*, are at or above the Best Practice level, which is an 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 **The Tamarind Tree Hotel & Restaurant** 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 Green Globe Policy this would enable Benchmarked Bronze status to be retained.

## APPENDIX

### VERIFICATION DOCUMENTATION

Required Documentation	Received	Checked
Activity Measure Calculation	✓	✓
Energy Bills and/or Meter Readings	✓	✓
Water Bills and/or Meter Readings	✓	✓
<b>Assessor's Comments</b>		

### ENERGY CONSUMPTION

The benchmarking assessors sought clarification in regards to *Energy Consumption*, which included the following sources:

- Diesel: 24 259 kWh
- Hydro: No Figure Submitted

After verification documentation was submitted and reviewed, it was later determined that the correct figures and energy sources for *Energy Consumption* were as follows:

- Diesel: 14 555 kWh
- Hydro: 9 704 kWh
- LPG: 3 571 kWh
- Gasoline (Auto): 3 043 L

These sources produce a total of 204 241 MJ which equates to 51.3 MJ per Guest Night.

Based on the energy sources submitted (as indicated above), the Hydro energy source represents 17.1% Renewable Energy used as a proportion of Total Energy Consumption (please refer to the Energy table on Page 3 for further information); the initial figure of 40% was therefore changed to 17.1%.

## BENCHMARK REVIEW

As a standard policy, all **earthcheck™** indicators are reviewed annually, 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.

The Benchmark Review was undertaken in March 2007. The following benchmarks were revised as part of the review:

### *Caribbean Vacation Hotels:*

#### Energy Consumption:

- Previous Baseline Level: 300 MJ per Guest Night
- Previous Best Practice Level: 210 MJ per Guest Night
- **Revised Baseline Level: 240 MJ per Guest Night**
- **Revised Best Practice Level: 170 MJ per Guest Night**

#### Water Consumption (Revised benchmarks were identical to current levels):

- Previous Baseline Level: 900 L per Guest Night
- Previous Best Practice Level: 650 L per Guest Night
- **Revised Baseline Level: 900 L per Guest Night**
- **Revised Best Practice Level: 650 L per Guest Night**

#### Waste Sent to Landfill:

- Previous Baseline Level: 13.0 L per Guest Night
- Previous Best Practice Level: 9.0 L per Guest Night
- **Revised Baseline Level: 16.0 L per Guest Night**
- **Revised Best Practice Level: 11.2 L per Guest Night**

**The Tamarind Tree Hotel & Restaurant** is encouraged to ensure that these benchmarks are met within the next 12 months in order to maintain Benchmarked status.



**Benchmarks assessed by Earthcheck**



**Report endorsed by Green Globe**



Pacific Asia Travel Association



CARIBBEAN ALLIANCE FOR SUSTAINABLE TOURISM

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 Nights	3,981	gn				
Area Under Roof	773	m <sup>2</sup>				
<b>Energy Consumption</b>			<b>Community Commitment</b>			
	Indicator			Indicator		
Supplied	204,241	MJ		Supplied	85	%
Calculated	51.3	MJ per gn		<i>Baseline</i>	60	%
<i>Baseline</i>	240	<i>MJ per gn</i>		<i>Best Practice</i>	100	%
<i>Best Practice</i>	170	<i>MJ per gn</i>		<i>% difference</i>	25	<i>better than BL</i>
<i>% difference</i>	70	<i>better than BP</i>				
				Checklist		
Renewable	17.1	%		Rating	100	
				<i>Baseline</i>	50	
Total CO <sub>2</sub>	11,689	kg		<i>Best Practice</i>	75	
	3	kg per gn		<i>points difference</i>	25.0	<i>better than BP</i>
<b>Water Consumption</b>			<b>Paper Products</b>			
	Indicator			Checklist		
Supplied	804.27	m <sup>3</sup>		Supplied Rating	66.7	
Calculated	202.0	L per gn		<i>Baseline</i>	50	
<i>Baseline</i>	900	<i>L per gn</i>		<i>Best Practice</i>	75	
<i>Best Practice</i>	650	<i>L per gn</i>		<i>points difference</i>	16.7	<i>better than BL</i>
<i>% difference</i>	69	<i>better than BP</i>				
				<b>Cleaning Products</b>		
Recycled/captured	30	%		Checklist		
				Supplied Rating	98.2	
	Checklist			<i>Baseline</i>	50	
Supplied Rating	84.37			<i>Best Practice</i>	75	
<i>Baseline</i>	50			<i>points difference</i>	23.2	<i>better than BP</i>
<i>Best Practice</i>	75					
<i>points difference</i>	9.4	<i>better than BP</i>		<b>Pesticide Products</b>		
				Checklist		
<b>Waste Sent to Landfill</b>				Supplied Rating	50	
	Indicator			<i>Baseline</i>	50	
Supplied	11,900.00	L		<i>Best Practice</i>	75	
Calculated	3.0	L per gn		<i>points difference</i>	0	<i>at BL</i>
<i>Baseline</i>	16	<i>L per gn</i>				
<i>Best Practice</i>	11.2	<i>L per gn</i>				
<i>% difference</i>	73	<i>better than BP</i>				
Recycled/reused	10	%				
				Checklist		
Supplied Rating	58.0					
<i>Baseline</i>	50					
<i>Best Practice</i>	75					
<i>points difference</i>	8.0	<i>better than BL</i>				

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/m<sup>3</sup> for uncompacted waste or 650 kg/m<sup>3</sup> 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).