

# BENCHMARKED ASSESSMENT REPORT

## **COMMUNITY BENCHMARKING**

## Snaefellsnes Iceland

Report Date: 18 September 2007 Benchmarked Certificate Expiry: 31 March 2008

BENCHMARKING DATA COLLECTION PERIOD: 1 January 2006 - 31 December 2006

Assessment Conducted by Earthcheck

#### **Snaefellsnes**

#### **OVERVIEW**

This annual assessment of **SnaefelIsnes** was undertaken against **earth**check™ benchmarking indicators developed for Green Globe. ¹ They have been carefully selected to track performance in key areas of environmental and social performance impact. The lead agency responsible for collection, collation and authorisation of the information required by the indicators was the **SnaefelIsnes Council.** 

| Øe | earthcheck"                                     | Indicator Measure (Benchmark)  |
|----|---|--|
| 1  | Sustainability Policy A                         | Policy is produced and in place  |
| 2  | Energy Consumption                              | Energy used (GJ / Person Year) <sup>B</sup>  |
|    | Energy Consumption                              | Renewable energy used (%) <sup>c</sup>   |
| 3  | Water Consumption                               | Water used (kL / Person Year) <sup>B</sup>   |
|    | Trator Concumption                              | % of total water used is that is recycled/captured (%) <sup>c</sup>                                  |
| 4  | Waste Sent to Landfill                          | Waste landfilled (t / Person Year) <sup>B</sup>  |
|    | Tradio Cont to Earnam                           | % of total waste that is recycled/reused (%) <sup>c</sup>  |
| 5  | Greenhouse Gas (CO <sub>2</sub> )<br>Production | Carbon Dioxide produced (t / Person Year) <sup>B</sup>   |
| 6  | Air Quality                                     | Nitrogen Oxides produced (kg / Hectare) D  |
| 7  | Air Quality                                     | Sulphur Dioxide produced (kg / Hectare) D  |
| 8  | Air Quality                                     | Particulate Matter produced (kg / Hectare) D   |
| 9  | Waterways Quality                               | Tested waterways samples passing quality guidelines pa / Total number of waterways samples tested pa |
| 10 | Habitat Conservation (Biodiversity)             | Area set aside for conservation of native species (ha) / Total community area (ha)                   |
| 11 | Green Space                                     | Green space area of Community (ha) /<br>Total community area (ha)                                    |
| 12 | Travel & Tourism<br>Accreditation               | Environmentally accredited operators /<br>Total number of operators in the community                 |

A Produced by the lead agency after consultation with the community and consensus.

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

<sup>&</sup>lt;sup>B</sup> Person year is equivalent to 365 person days. Green Globe Communities must also allow for both resident and transient (tourist) populations in indicators assessed on a per person year basis. Tourist activity is classified into an "overnight stay" or "day tripper". An overnight stay is counted the same as a permanent resident, that is, 1 person day. A day tripper is counted as 0.333 person day.

Primary assessed impacts on air quality are emissions due to electricity consumption, vehicular transport, industrial processes and mining. The levels are calculated on a per unit area basis using total emissions and total bounded area of the Community, including waterways. The data is then normalized against the average number of person years per area of the country (for further details, please refer to the Community Benchmarking Document).

<sup>&</sup>lt;sup>1</sup> 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 <a href="https://www.earthcheck.org">www.earthcheck.org</a>

#### **Snaefellsnes**

| <b>∂</b> e | earthcheck"        | Indicator Measure (Benchmark)                                |
|------------|--------------------|--|
| Lead A     | gency Performance  |  |
| 13         | Water Saving       | Water saving (Checklist Rating) <sup>E</sup>                 |
| 14         | Waste Recycling    | Waste recycling (Checklist Rating) <sup>E</sup>              |
| 15         | Paper Products     | Paper product types used (Checklist Rating) <sup>E</sup>     |
| 16         | Cleaning Products  | Cleaning product types used (Checklist Rating) <sup>E</sup>  |
| 17         | Pesticide Products | Pesticide product types used (Checklist Rating) <sup>E</sup> |

assessed for the lead agency only.

In addition to the list on the previous page, a range of optional indicators are also provided. These present the opportunity to benchmark areas that reflect specific commitments to the local environment by the Community.

Optional benchmarks are encouraged and recognized by Green Globe, but are not used in the Benchmarking evaluation that assesses whether the Community has reached the standards necessary to use the Green Globe Benchmarked logo. <sup>2</sup>



The data for the listed **earthcheck™** indicators and their benchmarks have been stated as compiled by **Snaefellsnes** in the prescribed manner, authorized by a senior officer of the Community's lead agency, the **Snaefellsnes Council**, and submitted to Green Globe for an annual independent assessment conducted by Earthcheck.

<sup>&</sup>lt;sup>2</sup> To meet the requirements that allow the right to use the Green Globe Benchmarked logo, the benchmarks for all the **earth**check™ indicators should be at, or better than, the Baseline level. Baseline performance and Best Practice are set for Green Globe by Earthcheck with reference to appropriate national, regional and international data which take into account social, geographical and climatic impacts.

If a Community fails to meet the minimum requirements for up to two **earth**check<sup>TM</sup> indicators (Baseline or better performance), but achieves Baseline or better performance in all the other **earth**check<sup>TM</sup> Indicators, then the Community is allowed to use the Green Globe Benchmarked logo. It is, however, given a maximum of 12 months to improve performance. After 12 months, if the Community still does not achieve Baseline or better performance without substantiated evidence that the situation was beyond the control of the Community (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 **earth**check<sup>TM</sup> indicators are continuously reviewed, along with the performance levels which Communities 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 the Baseline and Best Practice levels, which provide useful feedback to the Community. Advanced warning will be given of changes in any required benchmarking related requirements and data.

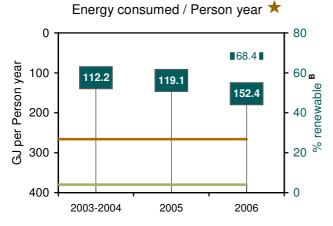
#### **Snaefellsnes**

## earthcheck\*

## COMMUNITY PERFORMANCE BENCHMARKS A

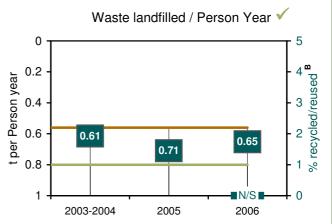
#### 1 Sustainability Policy \*

#### 2 Energy Consumption



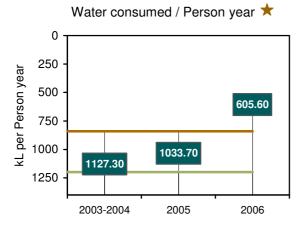
**Snaefellsnes** consumed 152.4 GJ per Person Year for the year 2006 (01/01/2006 - 31/12/06), which was 42.7% better than the Best Practice level.

#### 4 Waste Sent to Landfill



**Snaefellsnes** produced 0.65 t per Person Year for the year 2006 (01/01/2006 - 31/12/06), which was18.6% better than the Baseline level.

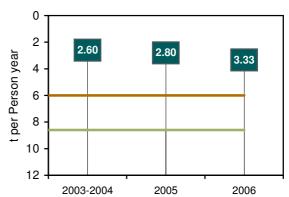
#### 3 Water Consumption



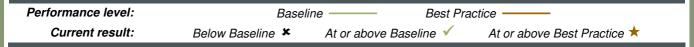
**Snaefellsnes** consumed 605.6 kL per Person Year for the year 2006 (01/01/2006 - 31/12/06), which was 27.9% better than the Best Practice level.

#### 5 Greenhouse Gas Production

Carbon dioxide (CO₂) produced /
Person year ★



**Snaefellsnes** produced 3.3 t per Person Year for the year 2006 (01/01/2006 - 31/12/06), which was 44.6% better than the Best Practice level.



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

B These indicators are for guidance only and do not affect the overall benchmarking evaluation; N/S – Data not submitted

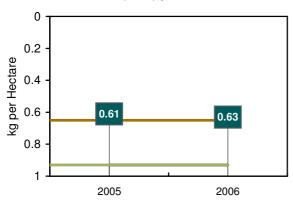
#### **Snaefellsnes**



### COMMUNITY PERFORMANCE BENCHMARKS A

#### 6 Air Quality

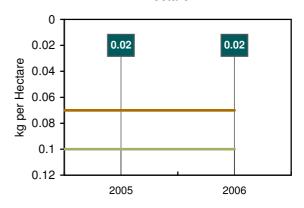
Nitrous oxides (NOx) produced / Hectare ✓ B



**Snaefellsnes** produced 0.6 kg per Hectare for the year 2006 (01/01/2006 - 31/12/06), which was 32.3% better than the Baseline level.

#### 8 Air Quality

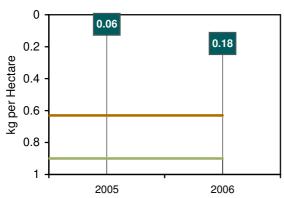
Particulate matter (PM10) produced /
Hectare ★ B



The **Snaefellsnes** produced 0.02 kg per Hectare for the year 2006 (01/01/2006 - 31/12/06), which was 71.4% better than the Best Practice level.

#### 7 Air Quality

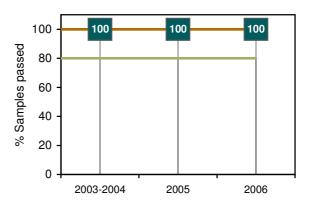
Sulphur dioxide (SO₂) produced / Hectare ★ B, C



**Snaefellsnes** produced 0.18 kg per Hectare for the year 2006 (01/01/2006 - 31/12/06), which was 71.4% greater than the Best Practice level.

#### 9 Waterways Quality

Water test passes / Water samples taken \*



Waterways Quality for the year 2006 (01/01/2006 - 31/12/06) was at the Best Practice level.

 Performance level:
 Baseline
 Best Practice

 Current result:
 Below Baseline
 ★ At or above Baseline ✓ At or above Best Practice

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

B Community Air Quality figures are normalised by allowing for differences in population densities between the nation (upon which Baseline and Best Practice figures are based) and the Community.

<sup>&</sup>lt;sup>c</sup> The rise in SO2 reflects what appears to be a relative rise in the amount of diesel used and also an increase in fuel oil consumption.

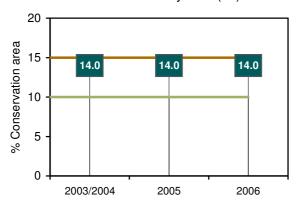
#### **Snaefellsnes**



### COMMUNITY PERFORMANCE BENCHMARKS A

#### 10 Habitat Conservation (Biodiversity)

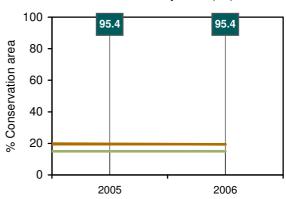
Habitat conservation area (ha) / Total Community area (ha) ✓



Habitat Conservation for the year 2006 (01/01/2006 - 31/12/06) was 4% better than the Baseline level.

#### 11 Green Space

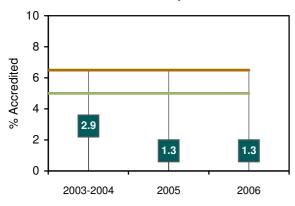
Green space area (ha) /
Total Community area (ha) <sup>B</sup> ★



Green Space for the year 2006 (01/01/2006 - 31/12/06) was 75.9% better than the Best Practice level.

#### 12 Travel & Tourism

Environmental performance accredited operations / Total travel & tourism operations

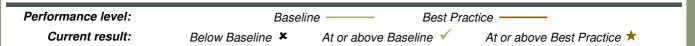


Travel & Tourism Accreditation for the year 2006 (01/01/2006 - 31/12/06) was below the Baseline level.

It is recognised that in most regions around the world, travel and tourism has not, until very recently, had access to environmental accreditation programs, such as Green Globe, that are suitable for their business.

As a consequence this indicator's role is not to pass/fail a Community, but to encourage local travel and tourism operators, who are generally the main point of contact for visitors to the Community, to start taking part in, and promoting, environmentally aware programs.

This will not only help support the Community's goals for a better environment, but also promote their own businesses.



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

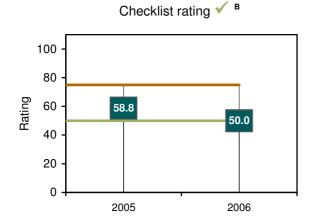
B In 2005 no data was submitted for Green Space, however, following the submission of data in 2006, the value for Green Space in 2005 has been altered to reflect the data submitted in 2006.



## COMMUNITY PERFORMANCE BENCHMARKS A

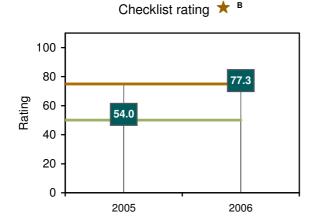
#### **Lead Agency Performance**

#### 13 Water Saving



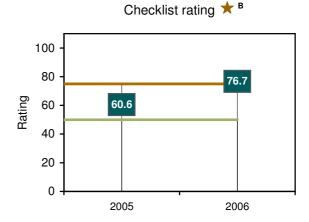
The Water Saving checklist rating for the year 2006 (01/01/2006 - 31/12/06) was at the Baseline level.

#### 14 Waste Recycling



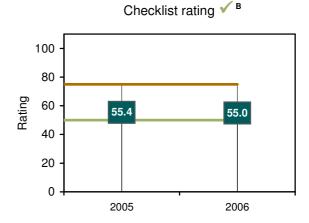
The Waste Recycling checklist rating for the year 2006 (01/01/2006 - 31/12/06) was 2.3 points better than the Best Practice level.

#### **Paper Products** 15



The Paper Products checklist rating for the year 2006 (01/01/2006 - 31/12/06) was 1.7 points better than the Best Practice level.

#### 16 **Cleaning Products**



The Cleaning Products checklist rating for the year 2006 (01/01/2006 - 31/12/06) was 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 \*

<sup>&</sup>lt;sup>A</sup> Each benchmark has been assessed on a per annum (12 months) basis <sup>B</sup> Assessed for the Community's lead agency – the *Snaefellsnes Council* 

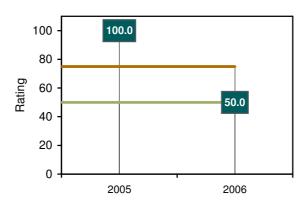


## COMMUNITY PERFORMANCE BENCHMARKS A

## Lead Agency Performance (continued)

#### 17 Pesticide Products

Checklist rating ✓ <sup>B, C</sup>



The Pesticide Products checklist rating for the year 2006 (01/01/2006 - 31/12/06) was at the Baseline level.

 Performance level:
 Baseline
 Best Practice

 Current result:
 Below Baseline
 ★
 At or above Baseline
 ★

At or above Best Practice ★

<sup>&</sup>lt;sup>A</sup> Each benchmark has been assessed on a per annum (12 months) basis

B Assessed for the Community's lead agency – the *Snaefellsnes Council* 

In 2005 there was no reported use of pesticide products in Snaefellsnes and therefore they were given a checklist rating of 100 for this indicator, on the basis that no use represents a Best Practice achievement.

### **Snaefellsnes**

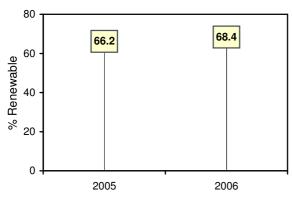
#### **OPTIONAL BENCHMARKING INDICATORS**

**Snaefellsnes** has also nominated optional Community Selected and Specified Indicators that they consider relevant to their specific locality. These indicators reflect a very positive and strong commitment that **Snaefellsnes** has to protecting the community's environment.

## COMMUNITY SELECTED INDICATORS A

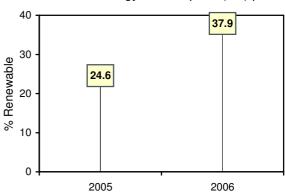
#### 1 Renewable Energy Consumption<sup>B</sup>

Renewable energy consumption (MJ) pa / Total energy consumption (MJ) pa



#### 2 Renewable Energy Production

Local renewable energy production (MJ) pa / Total energy consumption (MJ) pa



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

B Selected by the Community from a supplied list of **earth**check™ indicators

#### **CONCLUSION AND RECOMMENDATIONS**

Congratulations, **Snaefellsnes** has passed the requirements to continue being recognised as a Green Globe Benchmarked Community and retains the right to display the Green Globe Benchmarked logo until the certificate expiry date.



In addition to having a Sustainability Policy in place, all fifteen of the assessed **earth**check™ indicators are above the Baseline level. From the benchmarking data provided, nine indicators, *Energy Consumption, Water Consumption, Greenhouse Gas Production, Air Quality (SO<sub>X</sub>), Air Quality (PM10), Waterways Quality, Paper Products, Waste Recycling and Green Space are above the Best Practice level, which is an achievement to be very highly commended.* 

Additionally, the use of optional Operation Selected and Operation Specified Indicators further demonstrates a very positive commitment to protecting the environment whilst also contributing to the local economy.

Improvements in all the **earth**check<sup>TM</sup> indicators will not only help the environment, but can also help reduce operational costs. Due to the positive commitment that Snaefellsnes 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, Snaefellsnes is encouraged to strive towards Travel & *Tourism* being at Baseline performance or better. In line with Green Globe Policy this would enable Benchmarked status to be retained.



#### 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 Asia Pacific (GGAP) is majority owned by the not-for-profit Sustainable Tourism Cooperative Research Centre (STCRC), which is the largest sustainable tourism research organisation in the world.

The CRC is an Icelandn Government Initiative.





## **Snaefellsnes**

## **Summary of Snaefellsnes Supplied Benchmarking Data**

| Activity Measure(s)  |  |  |
|--|--|--|
| riotivity inododro(o)  |  |  |
| Person Years   | 4,271  | PY   |
| Total Community Area   | 146,700  | ha   |
| •  |  |  |
| <b>Energy Consumption</b>  |  |  |
|  | Indicator  |  |
| Supplied   | 0  | GJ   |
| Calculated   | 0.0  | GJ per PY  |
| Baseline   | 380  | GJ per PY  |
| Best Practice  | 266  | GJ per PY  |
| % difference   | 100.00   | better than BP   |
| Renewable  | 68.38  | %  |
|  |  |  |
| Water Consumption  |  | Ī  |
|  | Indicator  |  |
| Supplied   | 2,585,893  | kL   |
| For Assessment   | 2,586,493  | kL   |
| Calculated   | 605.6  | kL per PY  |
| Baseline   | 1200   | kL per PY  |
| Best Practice  | 840  | kL per PY  |
| % difference   | 27.91  | better than BP   |
|  |  |  |
| Recycled/captured  | N/S  | %  |
| Recycled/captured  | N/S  | %  |
| Recycled/captured  Waste Sent to Landfill  | N/S  | %  |
| •  | N/S<br>Indicator   | %  |
| •  |  | % tonnes   |
| Waste Sent to Landfill   | Indicator  |  |
| Waste Sent to Landfill Supplied  | Indicator<br>2,780.60  | tonnes   |
| Waste Sent to Landfill  Supplied Calculated  | Indicator<br>2,780.60<br>0.651   | tonnes<br>t per PY   |
| Waste Sent to Landfill Supplied Calculated Baseline  | Indicator<br>2,780.60<br>0.651<br>0.8  | tonnes t per PY t per PY                                     |
| Supplied Calculated Baseline Best Practice % difference  | Indicator<br>2,780.60<br>0.651<br>0.8<br>0.56<br>18.62   | tonnes t per PY t per PY t per PY                            |
| Supplied Calculated Baseline Best Practice   | Indicator<br>2,780.60<br>0.651<br>0.8<br>0.56  | tonnes t per PY t per PY t per PY                            |
| Supplied Calculated Baseline Best Practice % difference  | Indicator<br>2,780.60<br>0.651<br>0.8<br>0.56<br>18.62   | tonnes t per PY t per PY t per PY better than BL             |
| Supplied Calculated Baseline Best Practice % difference  | Indicator<br>2,780.60<br>0.651<br>0.8<br>0.56<br>18.62<br>N/S  | tonnes t per PY t per PY t per PY better than BL             |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  | Indicator<br>2,780.60<br>0.651<br>0.8<br>0.56<br>18.62<br>N/S  | tonnes t per PY t per PY t per PY better than BL             |
| Supplied  Calculated  Baseline  Best Practice % difference  Recycled/reused  | Indicator<br>2,780.60<br>0.651<br>0.8<br>0.56<br>18.62<br>N/S  | tonnes t per PY t per PY t per PY better than BL             |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator   | tonnes t per PY t per PY t per PY better than BL             |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0   | tonnes t per PY t per PY t per PY better than BL             |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0 0.00                                      | tonnes t per PY t per PY t per PY better than BL             |
| Supplied Calculated Baseline Best Practice % difference Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  Total CO <sub>2</sub>                                      | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0 0.00 8.6 6                                | tonnes t per PY t per PY t per PY better than BL %           |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  Total CO <sub>2</sub> Baseline Best Practice              | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0 0.00 8.6                                  | tonnes t per PY t per PY t per PY better than BL             |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  Total CO <sub>2</sub> Baseline Best Practice              | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0 0.00 8.6 6 100.00                         | tonnes t per PY t per PY t per PY better than BL %  t per PY |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  Total CO <sub>2</sub> Baseline Best Practice % difference | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0 0.00 8.6 6 100.00                         | tonnes t per PY t per PY t per PY better than BL %  t per PY |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  Total CO <sub>2</sub> Baseline Best Practice % difference | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0 0.00 8.6 6 100.00  xides (NOx) Produ      | tonnes t per PY t per PY t per PY better than BL %  t per PY |
| Supplied Calculated Baseline Best Practice % difference  Recycled/reused  Carbon Dioxide (CO <sub>2</sub> )  Total CO <sub>2</sub> Baseline Best Practice % difference | Indicator 2,780.60 0.651 0.8 0.56 18.62  N/S  Production Indicator 0 0.00 8.6 6 100.00  xides (NOx) Production | tonnes t per PY t per PY t per PY better than BL %  t per PY |

| Waterways Quality |           |       |  |  |
|-------------------|-----------|-------|--|--|
|                   | Indicator |       |  |  |
| Supplied          | 100       | %     |  |  |
| Baseline          | 80        | %     |  |  |
| Best Practice     | 100       | %     |  |  |
| % difference      | 0         | at BP |  |  |

| Habitat Conservation (Biodiversity) |           |                |  |  |
|-------------------------------------|-----------|----------------|--|--|
|                                     | Indicator |                |  |  |
| Supplied                            | 14        | %              |  |  |
| Baseline                            | 10        | %              |  |  |
| Best Practice                       | 15        | %              |  |  |
| % difference                        | 4         | better than BL |  |  |

| Green Space   |           |                |  |  |
|---------------|-----------|----------------|--|--|
|               | Indicator |                |  |  |
| Supplied      | 95.4      | %              |  |  |
| Baseline      | 15        | %              |  |  |
| Best Practice | 19.5      | %              |  |  |
| % difference  | 75.9      | better than BP |  |  |

| Travel & Tourism Accreditation |           |          |  |  |
|--------------------------------|-----------|----------|--|--|
|                                | Indicator |          |  |  |
| Supplied                       | 1.3       | %        |  |  |
| Baseline                       | 5         | %        |  |  |
| Best Practice                  | 6.5       | %        |  |  |
| % difference                   | 3.7       | below BL |  |  |

### Lead Agency Performance:

| Water Saving      |           |       |
|-------------------|-----------|-------|
|                   | Checklist |       |
| Supplied Rating   | 50        |       |
| Baseline          | 50        |       |
| Best Practice     | <i>75</i> |       |
| points difference | 0         | at BL |

| Waste Recycling   |           |                |
|-------------------|-----------|----------------|
|                   | Checklist |                |
| Supplied Rating   | 77.3      |                |
| Baseline          | 50        |                |
| Best Practice     | 75        |                |
| points difference | 2.3       | better than BP |

| Paper Products  |           |  |  |
|-----------------|-----------|--|--|
|                 | Checklist |  |  |
| Supplied Rating | 76.73     |  |  |
| Baseline        | 50        |  |  |

## Snaefellsnes

| Best Practice | 0.65  | kg per ha      |
|---------------|-------|----------------|
| % difference  | 32.26 | better than BL |

| Air Quality - Sulphur Dioxide (SOx) Produced |                  |                |  |  |
|--|------------------|----------------|--|--|
|  | Indicator        |                |  |  |
| Supplied                                     | see vehicle data | kg             |  |  |
|  | 0.18             | kg per ha      |  |  |
| Baseline                                     | 0.9              | kg per ha      |  |  |
| Best Practice                                | 0.63             | kg per ha      |  |  |
| % difference                                 | 71.43            | better than BP |  |  |

| Air Quality -<br>Particulate Matter<br>(PM10) Produced |                  |                |
|--|------------------|----------------|
|  | Indicator        |                |
| Supplied   | see vehicle data | kg             |
|  | 0.02             | kg per ha      |
| Baseline   | 0.1              | kg per ha      |
| Best Practice  | 0.07             | kg per ha      |
| % difference   | 71.43            | better than BP |

| Best Practice     | <i>75</i> |                |
|-------------------|-----------|----------------|
| points difference | 1.7       | better than BP |

| Cleaning Products |           |                |  |  |
|-------------------|-----------|----------------|--|--|
|                   | Checklist |                |  |  |
| Supplied Rating   | 54.96     |                |  |  |
| Baseline          | 50        |                |  |  |
| Best Practice     | 75        |                |  |  |
| points difference | 5.0       | better than BL |  |  |

| Pesticide Products |           |       |  |  |
|--------------------|-----------|-------|--|--|
|                    |           |       |  |  |
|                    | Checklist |       |  |  |
| Supplied Rating    | 50        |       |  |  |
| Baseline           | 50        |       |  |  |
| Best Practice      | 75        |       |  |  |
| points difference  | 0         | at BL |  |  |

N/S = not submitted.

#### **Snaefellsnes**

#### **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 **earth**check™ 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 **earth**check™ 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).