



EARTHCHECK

# BENCHMARKING ASSESSMENT REPORT

ACCOMMODATION - BUSINESS HOTEL BENCHMARKING

**NOVOTEL TORINO CORSO GIULIO CESARE**  
TURIN, ITALY



REPORT DATE: 27 September 2011

Benchmarking Data Collection Period: 1 January 2010 – 31 December 2010

*The planet deserves more than half measures*

## OVERVIEW

This annual assessment of **Novotel Torino Corso Giulio Cesare** was undertaken against EarthCheck benchmarking indicators and checklists developed for EarthCheck 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 pass the benchmarking requirements, as stated in the EarthCheck Benchmarking Policy. <sup>2</sup>

	<b>Indicator Measure (Benchmark)</b>
<b>1</b> Policy	Policy is produced and in place
<b>2</b> Energy	Energy Consumption (MJ / Guest Night)
	Green Power (%) <sup>3</sup>
	Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO <sub>2</sub> -e / Guest Night)
<b>3</b> Water	Potable Water Consumption (L / Guest Night)
	Recycled / Captured Water (%) <sup>3</sup>
	Water Savings Rating (Points)
<b>4</b> Waste	Waste Sent to Landfill (L / Guest Night)
	Recycled / Reused / Composted Waste (%) <sup>3</sup>
	Waste Recycling Rating (Points)
<b>5</b> Community	Community Commitment (%)
	Community Contributions Rating (Points)
<b>6</b> Paper	Paper Products Rating (Points)
<b>7</b> Cleaning	Cleaning Products Rating (Points)
<b>8</b> Pesticides	Pesticide Products Rating (Points)

<sup>1</sup> Refer to the EarthCheck Sector Benchmarking Indicator (SBI) document for more information. For frequently asked questions (FAQs) about benchmarking or specific help, please log on to 'My EarthCheck' and visit your EarthCheck Benchmarking software.

<sup>2</sup> To meet the requirements stipulated in the EarthCheck Company Standard, the benchmarks for all the submitted EarthCheck indicators need to be at, or better than, the Baseline level. Baseline and Best Practice performance levels are set with reference to the type of activity (registered sector/s) and appropriate national and international data which take into account social, geographical and climatic impacts.

First-time benchmarking operations that fail to meet the minimum requirements (Baseline performance or better) for up to two submitted EarthCheck indicators (with a third indicator within 10% of the Baseline level), will be permitted to pass benchmarking. The operation 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 the operation (e.g., occurrence of a natural disaster), then the right to use the appropriate EarthCheck 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 meet the requirements of the Company Standard. 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.

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

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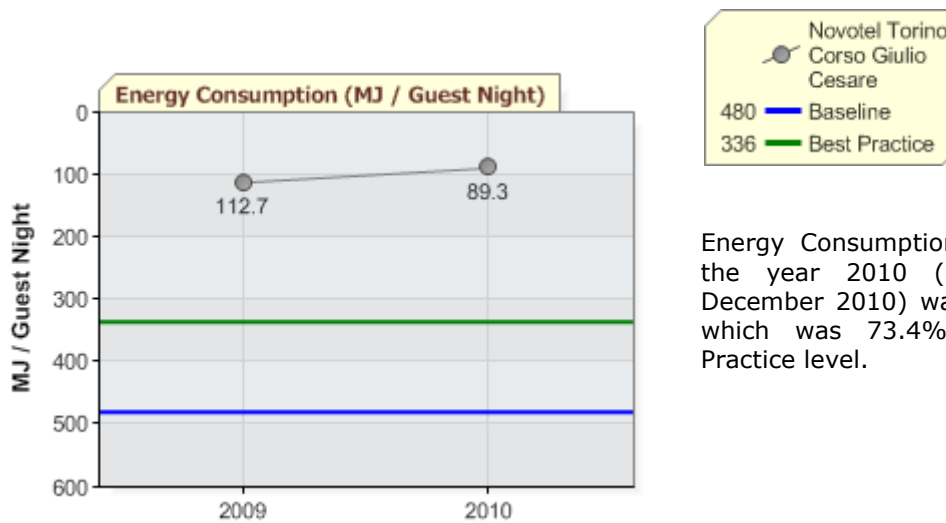
# ACCOMMODATION - BUSINESS HOTEL PERFORMANCE BENCHMARKS

**Current performance:** Below Baseline ✖ At or above Baseline ✔ At or above Best Practice ★

## 1. Policy ★

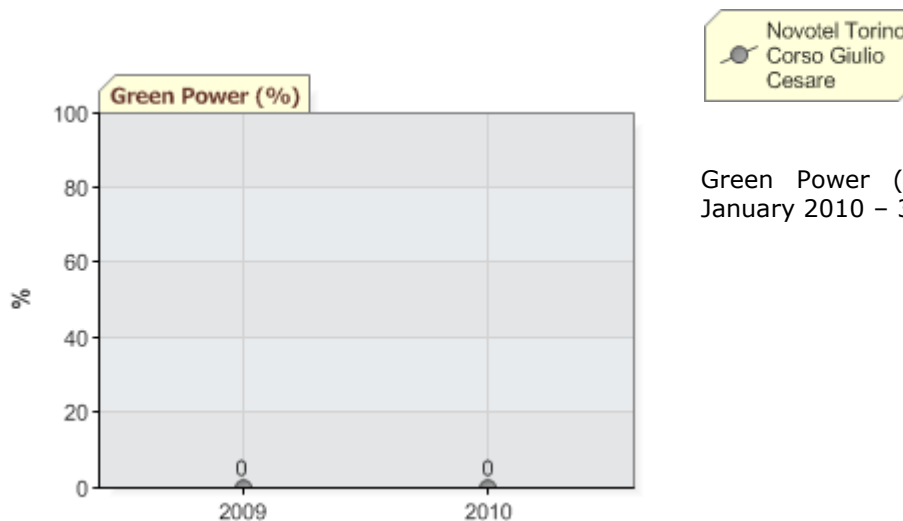
## 2. Energy

### Energy Consumption (MJ / Guest Night) ★



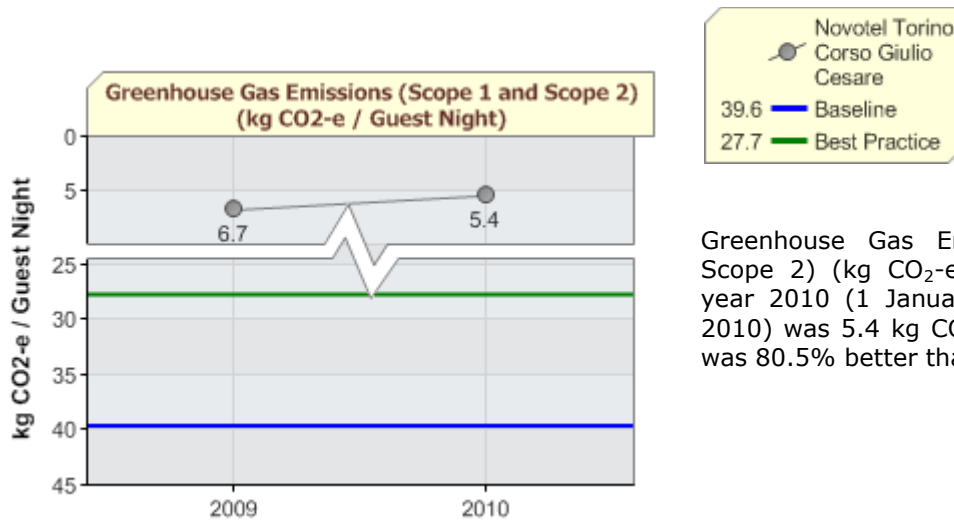
Energy Consumption (MJ / Guest Night) for the year 2010 (1 January 2010 – 31 December 2010) was 89.3 MJ / Guest Night, which was 73.4% better than the Best Practice level.

### Green Power (%)



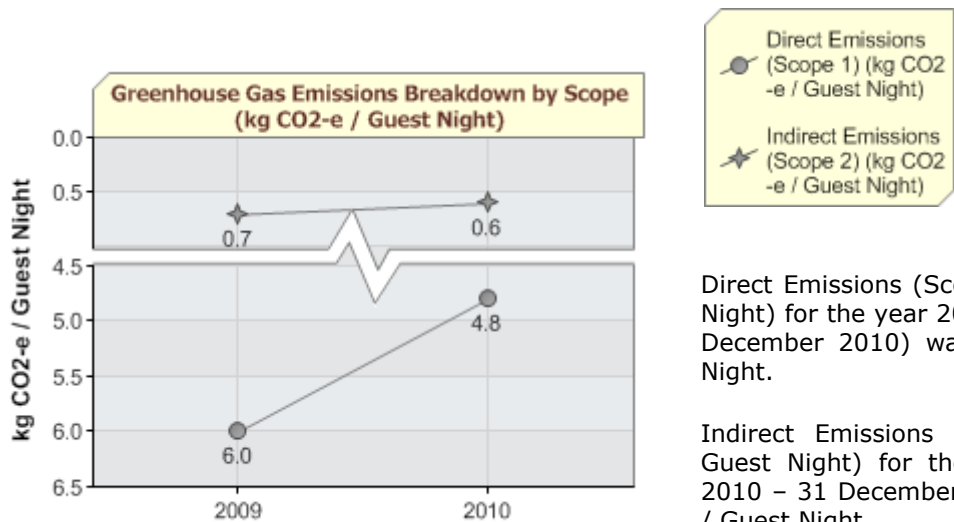
Green Power (%) for the year 2010 (1 January 2010 – 31 December 2010) was 0%.

## Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO<sub>2</sub>-e / Guest Night) ★



Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO<sub>2</sub>-e / Guest Night) for the year 2010 (1 January 2010 – 31 December 2010) was 5.4 kg CO<sub>2</sub>-e / Guest Night, which was 80.5% better than the Best Practice level.

## Greenhouse Gas Emissions Breakdown by Scope (kg CO<sub>2</sub>-e / Guest Night)



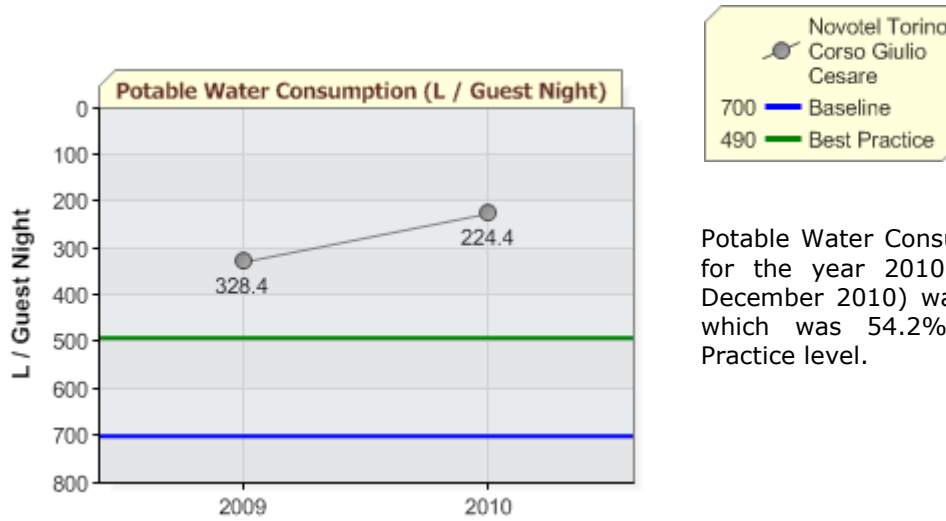
Direct Emissions (Scope 1) (kg CO<sub>2</sub>-e / Guest Night) for the year 2010 (1 January 2010 – 31 December 2010) was 4.8 kg CO<sub>2</sub>-e / Guest Night.

Indirect Emissions (Scope 2) (kg CO<sub>2</sub>-e / Guest Night) for the year 2010 (1 January 2010 – 31 December 2010) was 0.6 kg CO<sub>2</sub>-e / Guest Night.

<b>Direct Emissions (Scope 1)</b>								
<b>Stationary Fuel Combustion</b>								
Type	Quantity	Unit	Energy Consumption (MJ)	CO <sub>2</sub> Emission Estimate (t CO <sub>2</sub> -e)	CH <sub>4</sub> Emission Estimate (t CO <sub>2</sub> -e)	N <sub>2</sub> O Emission Estimate (t CO <sub>2</sub> -e)	Total Emission Estimate (t CO <sub>2</sub> -e)	
Natural gas	134605	cubic metres (m <sup>3</sup> )	4857151.4	272.5	0.5	0.2	273.1	
subtotal			4857151.4	272.5	0.5	0.2	273.1	
<b>Mobile Fuel Combustion (road)</b>								
Motor gasoline	0.18	litres (L)	5.9	0.0004	0.0	0.00001	0.0004	
subtotal			5.9	0.0004	0.0	0.00001	0.0004	
<b>TOTAL</b>				<b>4857157.3</b>	<b>272.5</b>	<b>0.5</b>	<b>0.2</b>	<b>273.1</b>
<b>Indirect Emissions (Scope 2)</b>								
<b>Purchased Electricity</b>								
Quantity	Unit	% Green Power	Provider	Energy Consumption (MJ)	CO <sub>2</sub> Emission Estimate (t CO <sub>2</sub> -e)	CH <sub>4</sub> Emission Estimate (t CO <sub>2</sub> -e)	N <sub>2</sub> O Emission Estimate (t CO <sub>2</sub> -e)	Total Emission Estimate (t CO <sub>2</sub> -e)
60918	Kilowatt hour (kWh)	0	Italy, Edison	219304.8	34.7	0.0	0.0	34.7
subtotal				219304.8	34.7	0.0	0.0	34.7
<b>TOTAL</b>				<b>219304.8</b>	<b>34.7</b>	<b>0.0</b>	<b>0.0</b>	<b>34.7</b>
<b>Greenhouse Gas Emissions (Scope 1 and Scope 2)</b>								
<b>GRAND TOTAL</b>				<b>5076462.1</b>	<b>307.1</b>	<b>0.5</b>	<b>0.2</b>	<b>307.8</b>

### 3. Water

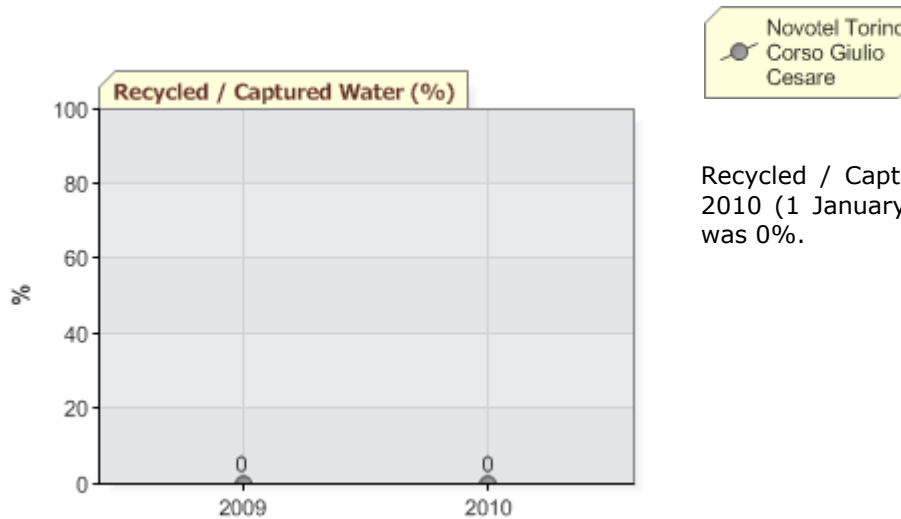
#### Potable Water Consumption (L / Guest Night) ★



Potable Water Consumption (L / Guest Night) for the year 2010 (1 January 2010 – 31 December 2010) was 224.4 L / Guest Night, which was 54.2% better than the Best Practice level.

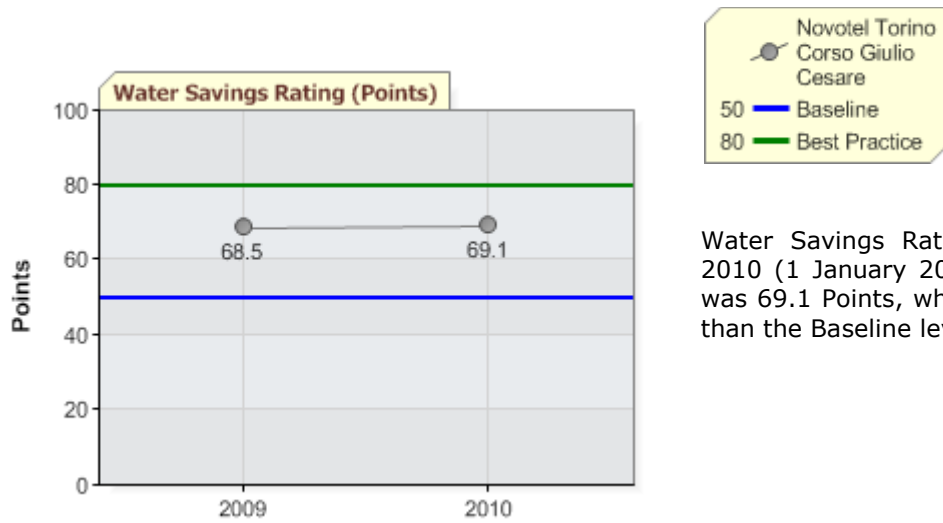
Quantity	Unit	Potable Water Consumption (kL)
12762	cubic metres	12762.0 kL
	<b>Totals:</b>	<b>12762.0 kL</b>

#### Recycled / Captured Water (%)



Recycled / Captured Water (%) for the year 2010 (1 January 2010 – 31 December 2010) was 0%.

## Water Savings Rating (Points) ✓

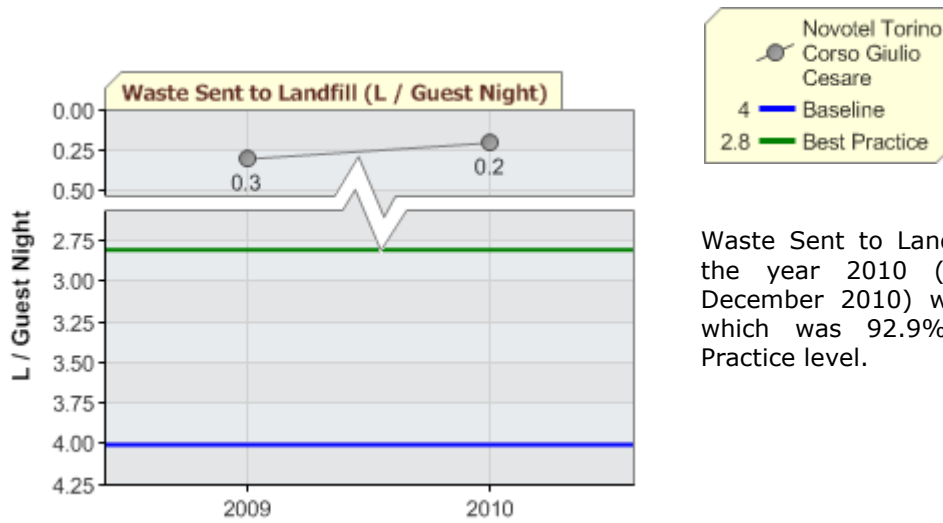


Water Savings Rating (Points) for the year 2010 (1 January 2010 – 31 December 2010) was 69.1 Points, which was 19.1 Points better than the Baseline level.

Water Savings Measures	Frequency / Percentage Rating	Water Savings Rating (Points)
Check for leaks	Every month	73.9 Points
Low/dual flush toilets	1-19%	54.0 Points
Low flow tap fittings	80-99%	88.9 Points
Low flow shower fittings	80-99%	88.9 Points
Water sprinklers used after dark	80-99%	88.9 Points
Minimal irrigation landscaping	80-99%	88.9 Points
Use of recycle/grey/rain water	0%	0.0 Points
	<b>Overall Rating:</b>	<b>69.1 Points</b>

## 4. Waste

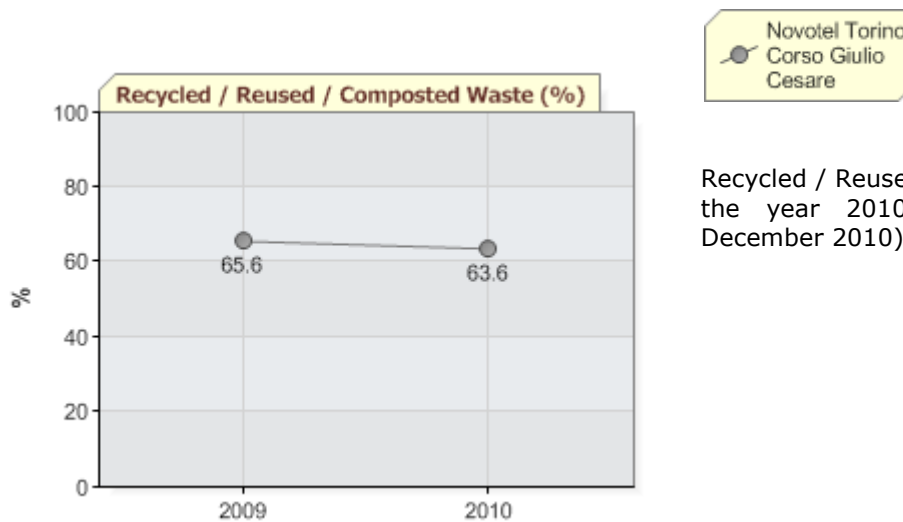
### Waste Sent to Landfill (L / Guest Night) ★



Waste Sent to Landfill (L / Guest Night) for the year 2010 (1 January 2010 - 31 December 2010) was 0.2 L / Guest Night, which was 92.9% better than the Best Practice level.

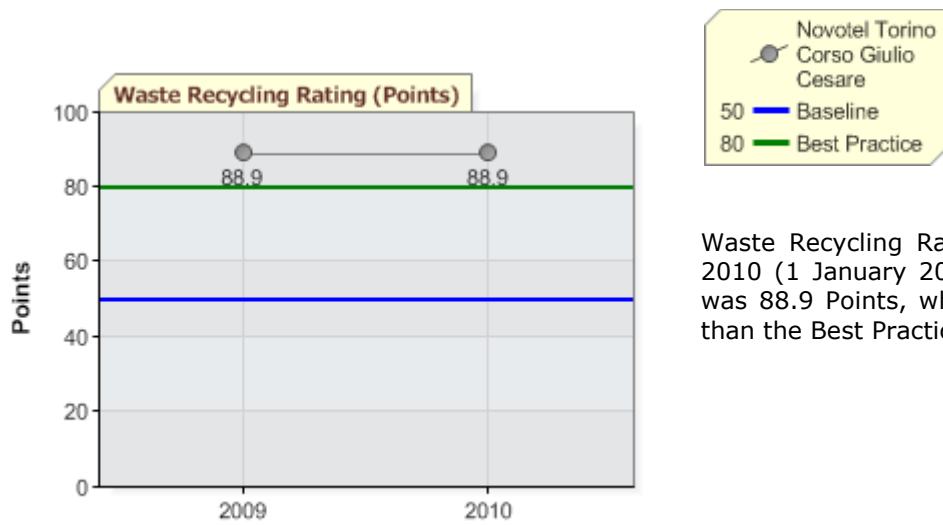
Quantity	Unit	Waste Sent to Landfill (m <sup>3</sup> )
4079	kilograms (uncompacted)	13.6 m <sup>3</sup>
	<b>Totals</b>	<b>13.6 m<sup>3</sup></b>

### Recycled / Reused / Composted Waste (%)



Recycled / Reused / Composted Waste (%) for the year 2010 (1 January 2010 - 31 December 2010) was 63.6%.

## Waste Recycling Rating (Points) ★

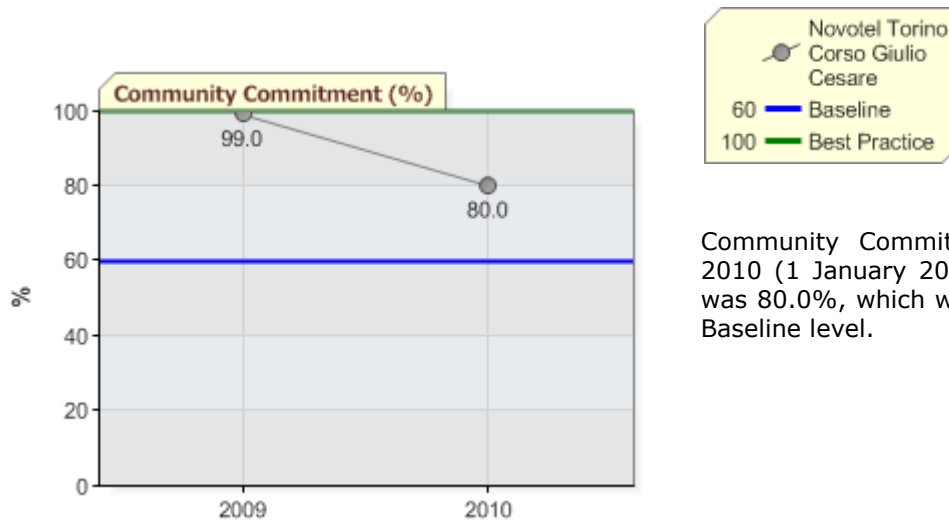


Waste Recycling Rating (Points) for the year 2010 (1 January 2010 - 31 December 2010) was 88.9 Points, which was 8.9 Points better than the Best Practice level.

Waste Recycling Measures	Frequency / Percentage Rating	Waste Recycling Rating (Points)
Glass	80-99%	88.9 Points
Paper/card	80-99%	88.9 Points
Iron & steel (ferrous metals)	Not Relevant / Not Available	
Other metals (non-ferrous)	Not Relevant / Not Available	
Plastics	80-99%	88.9 Points
Rubber	80-99%	88.9 Points
Green waste	Not Relevant / Not Available	
	<b>Overall Rating:</b>	<b>88.9 Points</b>

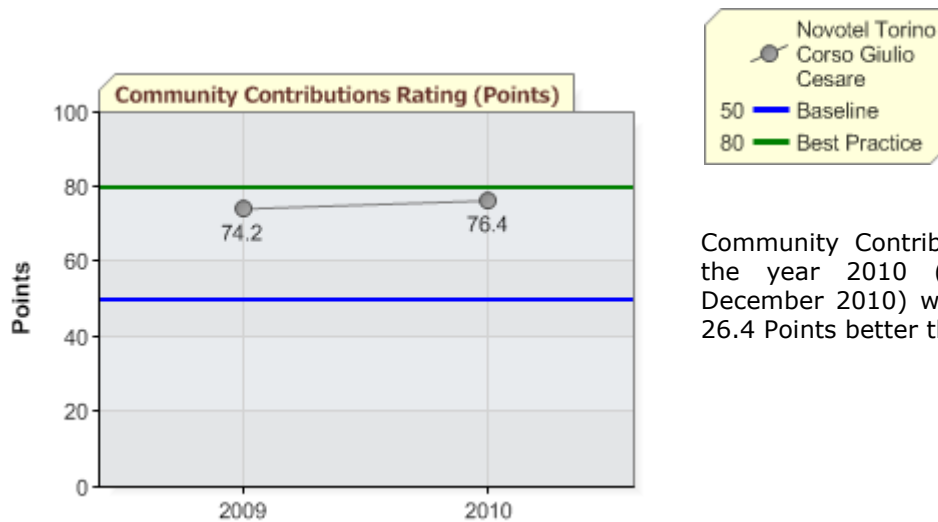
## 5. Community

### Community Commitment (%) ✓



Community Commitment (%) for the year 2010 (1 January 2010 - 31 December 2010) was 80.0%, which was 20.0% better than the Baseline level.

### Community Contributions Rating (Points) ✓

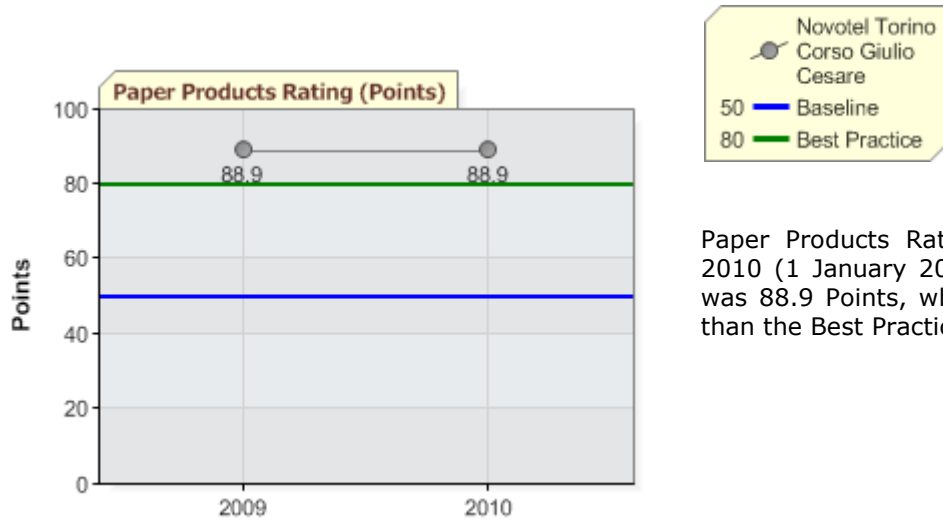


Community Contributions Rating (Points) for the year 2010 (1 January 2010 - 31 December 2010) was 76.4 Points, which was 26.4 Points better than the Baseline level.

Community Contributions Measures	Frequency / Percentage Rating	Community Contributions Rating (Points)
Net income spent on sustainability programs	0.1% - 1.9%	54.0 Points
Perishable purchased goods that are of local origin	60-79%	73.9 Points
Service contracts given to local contractors	80-99%	88.9 Points
Staff received training on sustainability issues	80-99%	88.9 Points
	<b>Overall Rating:</b>	<b>76.4 Points</b>

## 6. Paper

### Paper Products Rating (Points) ★

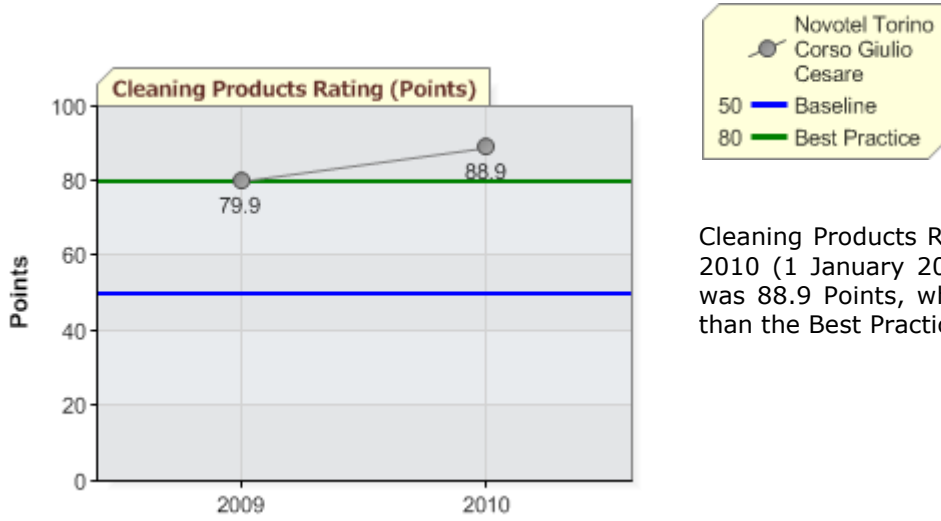


Paper Products Rating (Points) for the year 2010 (1 January 2010 – 31 December 2010) was 88.9 Points, which was 8.9 Points better than the Best Practice level.

Paper Products Measures	Frequency / Percentage Rating	Paper Products Rating (Points)
Office paper	80-99%	88.9 Points
Serviettes	80-99%	88.9 Points
Tissues	80-99%	88.9 Points
Toilet tissue	80-99%	88.9 Points
Paper towels	80-99%	88.9 Points
	<b>Overall Rating:</b>	<b>88.9 Points</b>

## 7. Cleaning

### Cleaning Products Rating (Points) ★

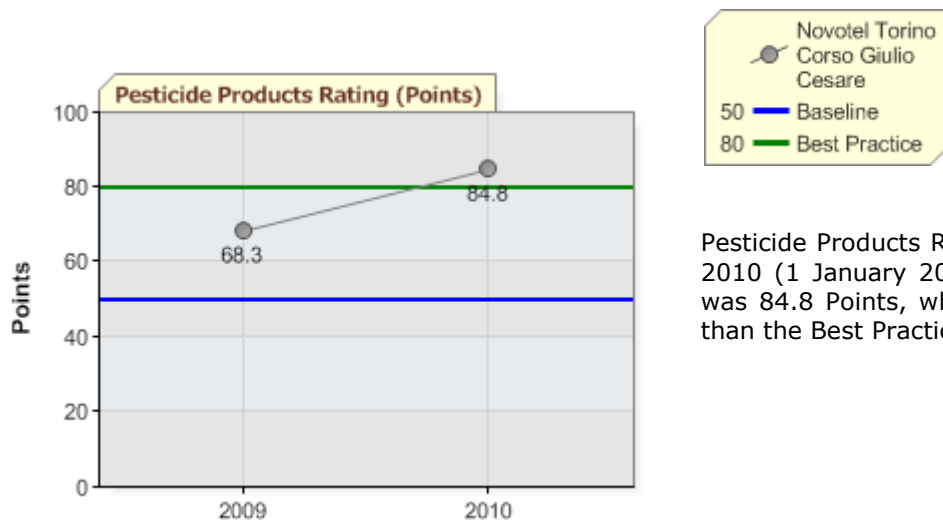


Cleaning Products Rating (Points) for the year 2010 (1 January 2010 - 31 December 2010) was 88.9 Points, which was 8.9 Points better than the Best Practice level.

Cleaning Products Measures	Frequency / Percentage Rating	Cleaning Products Rating (Points)
Hard floor cleaners	80-99%	88.9 Points
Carpet cleaners	80-99%	88.9 Points
Interior surface cleaners	80-99%	88.9 Points
External surface cleaners	80-99%	88.9 Points
Glass cleaners	80-99%	88.9 Points
Detergents	80-99%	88.9 Points
Personal hygiene	80-99%	88.9 Points
	<b>Overall Rating:</b>	<b>88.9 Points</b>

## 8. Pesticides

### Pesticide Products Rating (Points) ★



Pesticide Products Rating (Points) for the year 2010 (1 January 2010 – 31 December 2010) was 84.8 Points, which was 4.8 Points better than the Best Practice level.

Pesticide Products Measures	Frequency / Percentage Rating	Pesticide Products Rating (Points)
Weed killers	60-79%	73.9 Points
Fungal killers	Not Relevant / Not Available	100.0 Points
Rodent killers	40-59%	65.1 Points
Insect killers	Not Relevant / Not Available	100.0 Points
	<b>Overall Rating:</b>	<b>84.8 Points</b>

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*The supplied data has been compiled by **Novotel Torino Corso Giulio Cesare** in the prescribed manner, authorised by a senior executive of the company and submitted for an annual assessment.*

## CONCLUSION AND RECOMMENDATIONS

Congratulations, the **Novotel Torino Corso Giulio Cesare** has passed the requirements to be recognised as an EarthCheck Benchmarked Accommodation - Business Hotel.

In addition to having a Sustainability Policy in place, eleven of the assessed EarthCheck indicators are at or above the Baseline level. From the benchmarking data provided, eight indicators, *Energy Consumption, Greenhouse Gas Emissions (Scope 1 and Scope 2), Potable Water Consumption, Waste Sent to Landfill, Waste Recycling Rating, Paper Products Rating, Cleaning Products Rating* and *Pesticide Products Rating*, are at or 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 **Novotel Torino Corso Giulio Cesare** 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 EarthCheck Policy this would enable the **Novotel Torino Corso Giulio Cesare** to continue to meet the benchmarking requirements of the EarthCheck program.

## APPENDIX

### BENCHMARKING POLICY

A member benchmarking for the 2nd time is permitted to fall below Baseline in one (1) EarthCheck™ indicator (excluding supplementary EarthCheck™ indicators) with a 2nd EarthCheck™ indicator permitted to be within 10% of the Baseline level. **A member benchmarking for the 3rd time is not permitted to fall below Baseline in any EarthCheck™ indicators (excluding supplementary EarthCheck™ indicators), however, one (1) EarthCheck™ indicator may be within 10% of the Baseline level.**

### GUEST NIGHTS

The Benchmarking Assessors sought clarification with regards to the methodology used for Guest Nights. It was advised that;

*'Activity Measures: Please, in referring to the total of guest nights the new final figure is 56 873 not 56 405'*

This has been updated accordingly.

### WASTE SENT TO LANDFILL

As the submitted figure of 4 079 m<sup>3</sup> for *Waste Sent to Landfill* was greater than expected the Benchmarking Assessors sought clarification with **Novotel Torino Corso Giulio Cesare**. It was later advised that

*'Waste sent to the landfill: Yes, I should have submitted it in kilograms not cubic metres, sorry, I made a mistake'*

The submitted value of 4 079 kg of waste (specified by the operator as uncompacted waste) has been converted into a volume by using the standard conversion of: 1 kg (uncompacted waste) = 0.00333333 m<sup>3</sup> or 3.33333 L (i.e. 4 079 kg x 0.00333333 = 13.6 m<sup>3</sup> or 13 596.7 L). (If the waste is compacted, then the standard conversion is: 1 kg = 0.00153846 m<sup>3</sup> or 1.53846 L).

This equates to 0.2 L per Guest Night.

### WASTE RECYCLING RATING

It has been noted by the Benchmarking Assessors that 'Green Waste' has been selected as 'Not Relevant / Not Available'. As majority of accommodation providers generate green waste either in the form of food waste or garden waste it is recommended that this be verified at time of Certification and submitted for the next benchmarking assessment.

### COMMUNITY CONTRIBUTIONS RATING

As 'Relevant / Not Available' had been submitted for 'Service contracts given to local contractors', the Benchmarking Assessors sought clarification. It was later advised that;

*'Service contracts given to local contractors was 80-99%'*

This has been updated accordingly.



EARTHCHECK

**Benchmarks Assessed by EarthCheck**

# SUMMARY OF SUPPLIED BENCHMARKING DATA

## Activity Measures

Guest Nights	56873
Area Under Roof	5468

## Supplied Benchmarking Data

### Energy

#### Energy Consumption (MJ / Guest Night)

Supplied	5076462.1 MJ
Calculated	89.3 MJ / Guest Night
Baseline	480 MJ / Guest Night
Best Practice	336 MJ / Guest Night
Difference	73.4% better than the Best Practice level

#### Green Power (%)

Supplied	0%
Calculated	0%

#### Greenhouse Gas Emissions (Scope 1 and Scope 2) (kg CO<sub>2</sub>-e / Guest Night)

Supplied	307809.5 kg CO <sub>2</sub> -e
Calculated	5.4 kg CO <sub>2</sub> -e / Guest Night
Baseline	39.6 kg CO <sub>2</sub> -e / Guest Night
Best Practice	27.7 kg CO <sub>2</sub> -e / Guest Night
Difference	80.5% better than the Best Practice level

#### Direct Emissions (Scope 1) (kg CO<sub>2</sub>-e / Guest Night)

Supplied	273147.2 kg CO <sub>2</sub> -e
Calculated	4.8 kg CO <sub>2</sub> -e / Guest Night

#### Indirect Emissions (Scope 2) (kg CO<sub>2</sub>-e / Guest Night)

Supplied	34662.3 kg CO <sub>2</sub> -e
Calculated	0.6 kg CO <sub>2</sub> -e / Guest Night

### Water

#### Potable Water Consumption (L / Guest Night)

Supplied	12762000.0 L
Calculated	224.4 L / Guest Night
Baseline	700 L / Guest Night
Best Practice	490 L / Guest Night
Difference	54.2% better than the Best Practice level

### Recycled / Captured Water (%)

Supplied	0%
Calculated	0%

### Water Savings Rating (Points)

Supplied	69.1 Points
Calculated	69.1 Points
Baseline	50 Points
Best Practice	80 Points
Difference	19.1 Points better than the Baseline level

### Waste

#### Waste Sent to Landfill (L / Guest Night)

Supplied	13596.7 L
Calculated	0.2 L / Guest Night
Baseline	4 L / Guest Night
Best Practice	2.8 L / Guest Night
Difference	92.9% better than the Best Practice level

#### Recycled / Reused / Composted Waste (%)

Supplied	63.6%
Calculated	63.6%

#### Waste Recycling Rating (Points)

Supplied	88.9 Points
Calculated	88.9 Points
Baseline	50 Points
Best Practice	80 Points
Difference	8.9 Points better than the Best Practice level

### Community

#### Community Commitment (%)

Supplied	80.0%
Calculated	80.0%
Baseline	60 %
Best Practice	100 %
Difference	20.0% better than the Baseline level

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## **Community Contributions Rating (Points)**

Supplied	76.4 Points
Calculated	76.4 Points
Baseline	50 Points
Best Practice	80 Points
Difference	26.4 Points better than the Baseline level

## **Paper**

### **Paper Products Rating (Points)**

Supplied	88.9 Points
Calculated	88.9 Points
Baseline	50 Points
Best Practice	80 Points
Difference	8.9 Points better than the Best Practice level

## **Cleaning**

### **Cleaning Products Rating (Points)**

Supplied	88.9 Points
Calculated	88.9 Points
Baseline	50 Points
Best Practice	80 Points
Difference	8.9 Points better than the Best Practice level

## **Pesticides**

### **Pesticide Products Rating (Points)**

Supplied	84.8 Points
Calculated	84.8 Points
Baseline	50 Points
Best Practice	80 Points
Difference	4.8 Points better than the Best Practice level

## 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 Waste 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., cubic metres (m<sup>3</sup>) or litres (L)). These are: 1 kg (uncompacted waste) = 0.00333333 m<sup>3</sup> or 3.33333 L and 1 kg (compacted waste) = 0.00153846 m<sup>3</sup> or 1.53846 L.

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).