



EARTHCHECK

BENCHMARKING ASSESSMENT REPORT

DESTINATION BENCHMARKING

REGIÃO AUTÓNOMA DOS AÇORES

PONTA DELGADA, PORTUGAL



REPORT DATE: 29 September 2022

Benchmarking Data Collection Period: 1 January 2021 – 31 December 2021

The planet deserves more than half measures

OVERVIEW

This annual assessment of **Região Autónoma dos Açores** was undertaken against EarthCheck benchmarking indicators and checklists developed for EarthCheck and listed below. ¹ They have been carefully selected to track performance in key areas of environmental and social performance impact. EarthCheck benchmarking provides an organisation a vehicle for sustainability reporting and is based on the premise of continual improvement. By undertaking a Benchmarking Assessment an organisation meets the requirements of annual benchmarking which includes the collection and submission of benchmarking data to EarthCheck for review and completion of the Benchmarking Assessment Report. ²

Destination Performance Indicator Measure		
1	Policy	Policy is produced and in place
2	Energy	Energy Consumption (GJ / Person Year) Green Power (Purchased Electricity) (%) ³ Greenhouse Gas Emissions (Scope 1 and Scope 2) (t CO ₂ -e / Person Year) Greenhouse Gas Emissions Breakdown by Scope (t CO ₂ -e / Person Year) Indirect Emissions (Scope 3) (t CO ₂ -e / Person Year) Greenhouse Gas Emissions Scope 3 Breakdown (t CO ₂ -e / Person Year)
3	Water	Potable Water Consumption (kL / Person Year) Recycled / Captured Water (%) ³
4	Waste	Waste Sent to Landfill (m ³ / Person Year) Recycled / Reused / Composted Waste (%) ³ Waste Sent for Incineration (L / Person Year) ³
5	Sector Specific	Nitrous Oxides Produced (kg / Person Year / Hectare) Sulphur Dioxide Produced (kg / Person Year / Hectare) Particulate Matter Produced (kg / Person Year / Hectare) Water Samples Passed (%) Habitat Conservation Area (%) Green Space (%) Destination Safety – Homicide Rate (%) Destination Safety – Theft Rate (%) Destination Safety – Assault Rate (%) Socio-Economic Benefit – Unemployment Rate (%) Significant Site Maintenance Fund (%) Accredited Operations (%)
Lead Agency Performance Indicator Measure		
6	Water Saving	Water Savings Rating (Points)
7	Waste Recycling	Waste Recycling Rating (Points)
8	Paper	Paper Products Rating (Points)
9	Cleaning	Cleaning Products Rating (Points)
10	Pesticides	Pesticide Products Rating (Points)

¹ 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.

² To meet the requirements stipulated in the EarthCheck Company Standard organisations are required to collect and submit Benchmarking data against each of the Core Benchmarking Indicators by way of annual Benchmarking Assessment, and have in place a repeatable system for accurately recording Benchmarking data including a methodology for calculating the organisation's Activity Measure for each consecutive year.

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.

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

⁴ There may be a slight variation between total figures presented in the energy table and the data summary due to unit selection and data rounding.

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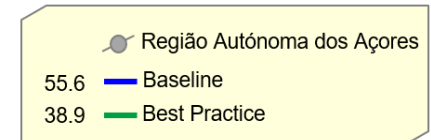
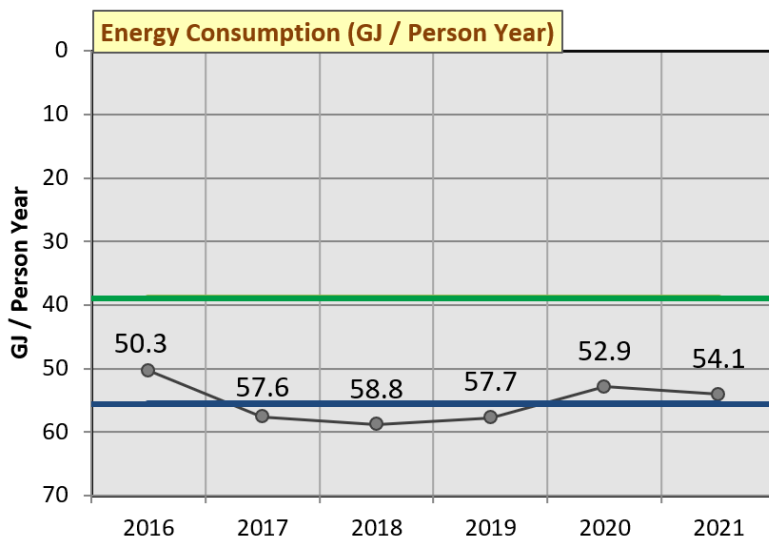
DESTINATION PERFORMANCE BENCHMARKS

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

1. Policy ★

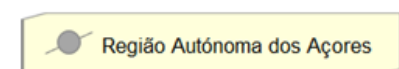
2. Energy

Energy Consumption (GJ / Person Year) ✔



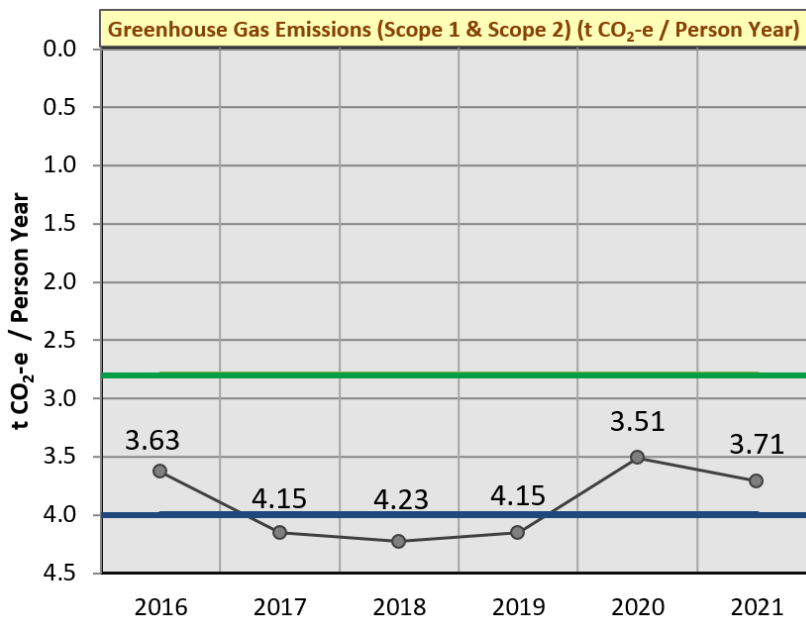
Energy Consumption (GJ / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 54.1 GJ / Person Year, which was 2.8% better than the Baseline level.

Green Power (Purchased Electricity) (%)



Green Power (Purchased Electricity) (%) for the year 2021 (1 January 2021 – 31 December 2021) was 0%.

Greenhouse Gas Emissions (Scope 1 and Scope 2) (t CO₂-e / Person Year) ✓



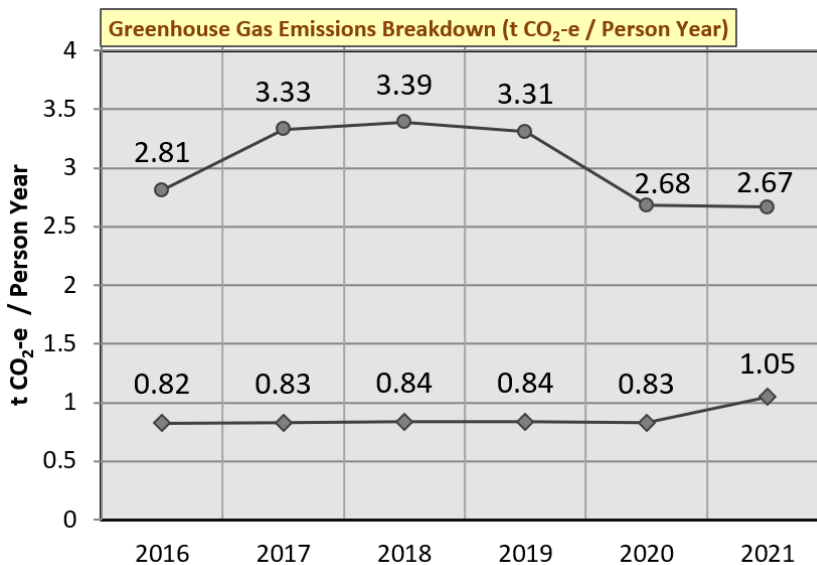
Região Autónoma dos Açores

4 Baseline

2.8 Best Practice

Greenhouse Gas Emissions (Scope 1 and Scope 2) (t CO₂-e / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 3.71 t CO₂-e / Person Year, which was 7.2% better than the Baseline level.

Greenhouse Gas Emissions Breakdown by Scope (t CO₂-e / Person Year)



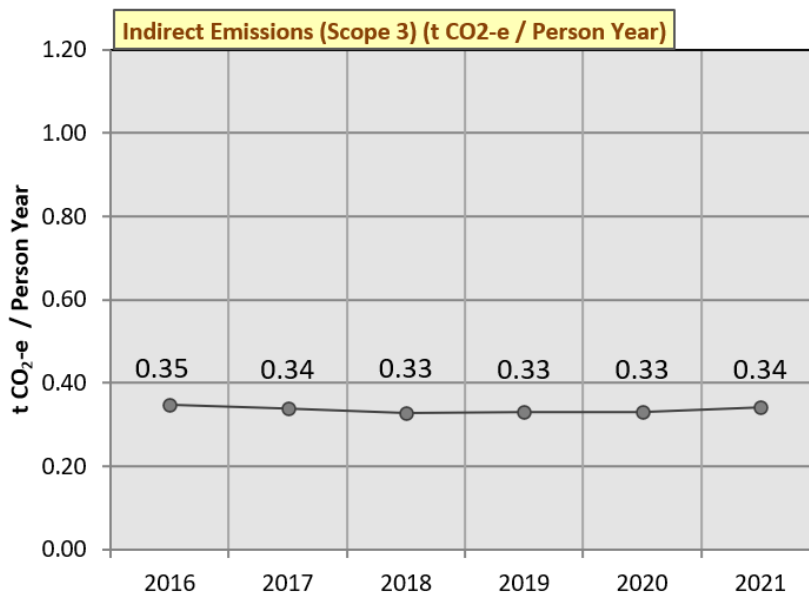
Direct Emissions (Scope 1) (t CO₂-e / Person Year)

Indirect Emissions (Scope 2) (t CO₂-e / Person Year)

Direct Emissions (Scope 1) (t CO₂-e / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 2.67 t CO₂-e / Person Year.

Indirect Emissions (Scope 2) (t CO₂-e / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 1.05 t CO₂-e / Person Year.

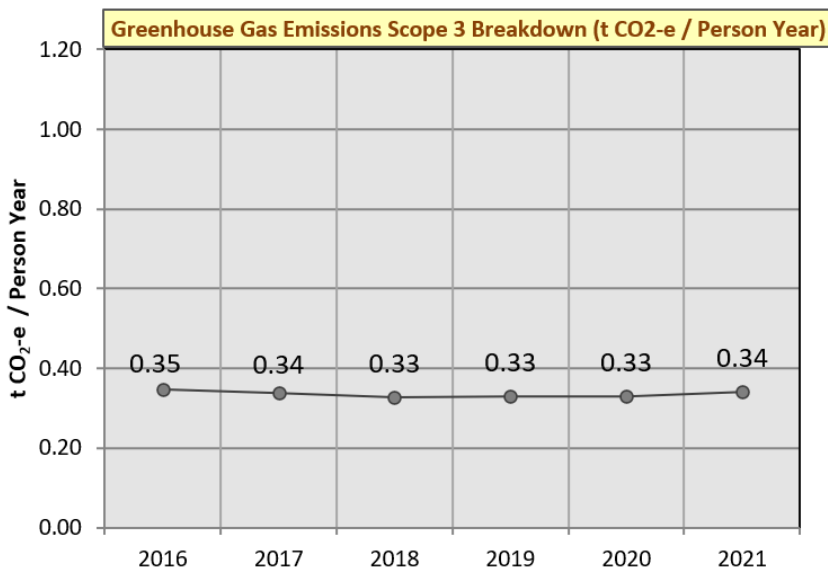
Indirect Emissions (Scope 3) (t CO₂-e / Person Year)



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Indirect Emissions (Scope 3) (kg CO₂-e / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 0.34 t CO₂-e / Person Year, which was 3.4% more than the previous year.

Greenhouse Gas Emissions Scope 3 Breakdown (t CO₂-e / Person Year)



Waste Indirect Emissions (Scope 3) (t CO₂-e / Person Year)

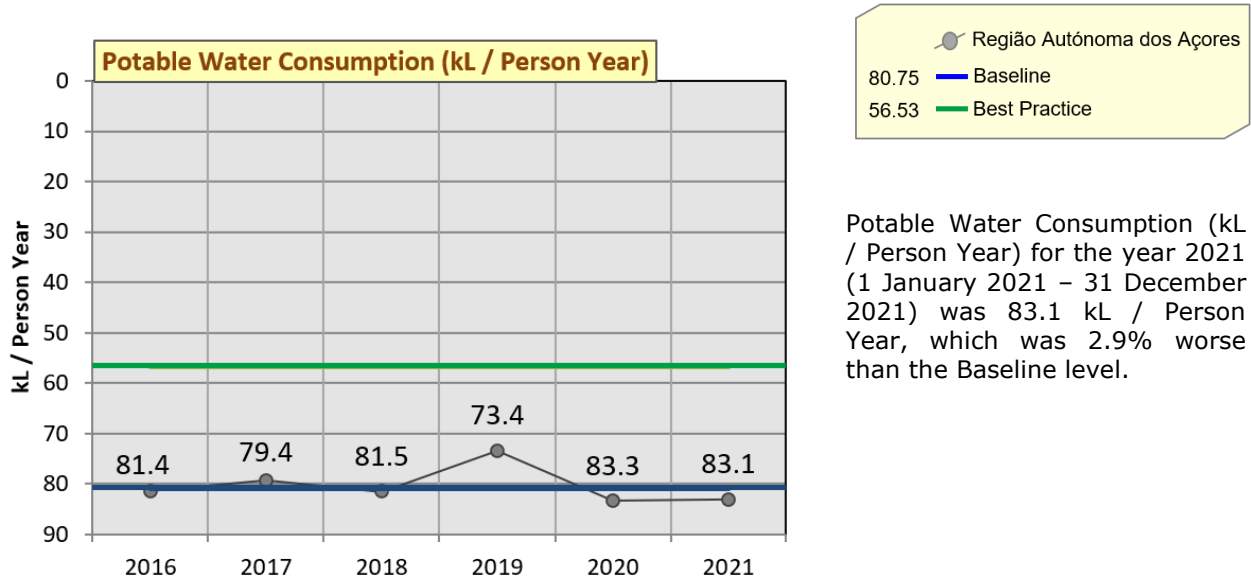
Waste Indirect Emissions (Scope 3) (kg CO₂-e / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 0.34 t CO₂-e / Person Year, which was 3.4% more than the previous year.

Direct Emissions (Scope 1)							
Stationary Fuel Combustion							
2021							
Type	Quantity	Unit	Energy Consumption (MJ)	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)
Heavy fuel oil	24,451,382	kilograms (kg)	1,037,227,624.4	76,267.3	275.9	156.7	76,699.9
Naphtha	1,576	litres (L)	56,701.7	3.9	0.02	0.009	4.0
LPG	17,041,137	kilograms (kg)	886,650,358.1	50,352.9	111.7	21.1	50,485.7
subtotal			1,923,934,684.3	126,624.2	387.6	177.8	127,189.6
Mobile Fuel Combustion (road)							
2021							
Type	Quantity	Unit	Energy Consumption (MJ)	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)
Motor gasoline	44,125,975	litres (L)	1,509,217,755.4	99,359.4	1,003.6	3,039.6	103,402.5
Diesel	81,318,710	litres (L)	3,120,808,793.0	219,689.3	323.8	3,064.1	223,077.2
subtotal			4,630,026,548.4	319,048.7	1,327.4	6,103.7	326,479.7
Mobile Fuel Combustion (air)							
2021							
Type	Quantity	Unit	Energy Consumption (MJ)	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)
Jet Kerosene	47,765,088	litres (L)	1,747,292,295.9	118,684.8	23.2	879.8	119,587.8
Aviation gasoline	1,588	litres (L)	52,444.7	3.5	0.0007	0.03	3.5
subtotal			1,747,344,740.6	118,688.3	23.2	879.8	119,591.3
Mobile Fuel Combustion (water)							
2021							
Type	Quantity	Unit	Energy Consumption (MJ)	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)
Diesel	16,784,446	litres (L)	644,145,076.4	45,344.6	119.9	324.3	45,788.9
Heavy fuel oil	3,479,801	kilograms (kg)	147,613,158.4	10,854.0	27.5	74.3	10,955.8
subtotal			791,758,234.8	56,198.6	147.4	398.7	56,744.7
Onsite Wastewater Treatment							
2021							
Type	People serviced per day	Days in use	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)	
Septic (BOD Unknown)	151,487	365		10,450.3		10,450.3	
Aerobic (BOD Unknown)	90,135	365		3,730.8		3,730.8	
subtotal				14,181.1		14,181.1	
TOTAL (SCOPE 1)			9,093,064208.0	620,559.8	16,066.8	7,559.9	644,186.5
Indirect Emissions (Scope 2)							
Purchased Electricity (Portugal)							
2021							
Quantity	Unit	% Green Power	Energy Consumption (MJ)	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)
827,903,052	kWh	0	2,980,450,987.2	250,854.6	338.2	1,559.9	252,752.7
TOTAL (SCOPE 2)			2,980,450,987.2	250,854.6	338.2	1,559.9	252,752.7
Greenhouse Gas Emissions (Scope 1 and Scope 2)							
GRAND TOTAL (SCOPE 1 & 2)			12,073,515,195.2	871,414.4	164,05.0	9,119.8	896,939.2

Indirect Emissions (Scope 3)									
Waste Sent to Landfill									
2021									
Quantity	Unit	Type of Landfill	Type of Waste	Type of Operation	Source	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)
64,871	tonnes (uncompacted)	Covered and/or managed waste treatment facility	Unknown (mixed waste types)	Other Operation	International		77,845.2		77,845.2
subtotal							77,845.2		77,845.2
Waste Sent for Incineration									
2021									
Quantity	Unit	Type of Incineration Technology	Type of Waste	Source	CO2 Emission Estimate (t CO2-e)	CH4 Emission Estimate (t CO2-e)	N2O Emission Estimate (t CO2-e)	Total Emission Estimate (t CO2-e)	
2,191	tonnes (uncompacted)	Open Burning	Textiles	International	304.99	14.24	3.29	322.52	
3,048	tonnes (uncompacted)	Open Burning	Plastics	International	3,977.64	19.81	4.57	4,002.02	
4,408	tonnes (uncompacted)	Open Burning	Nappies	International	214.76	28.65	6.61	250.02	
subtotal					4,497.39	62.70	14.47	4,574.56	
TOTAL (SCOPE 3)						4,497.39	77,907.90	14.47	82,419.76

3. Water

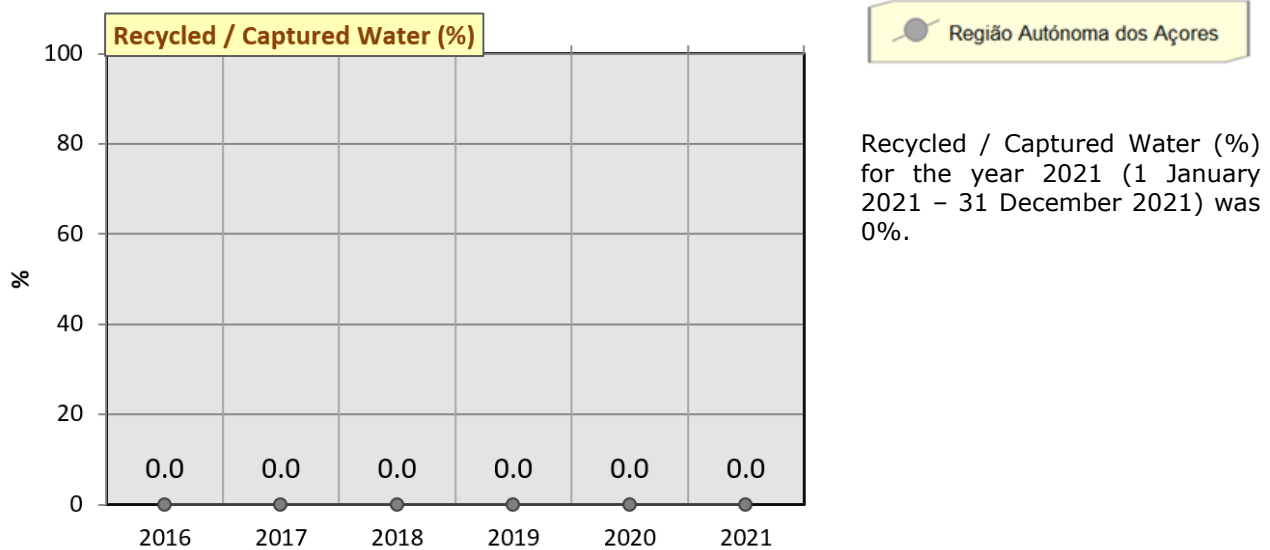
Potable Water Consumption (kL / Person Year) ✕



2021

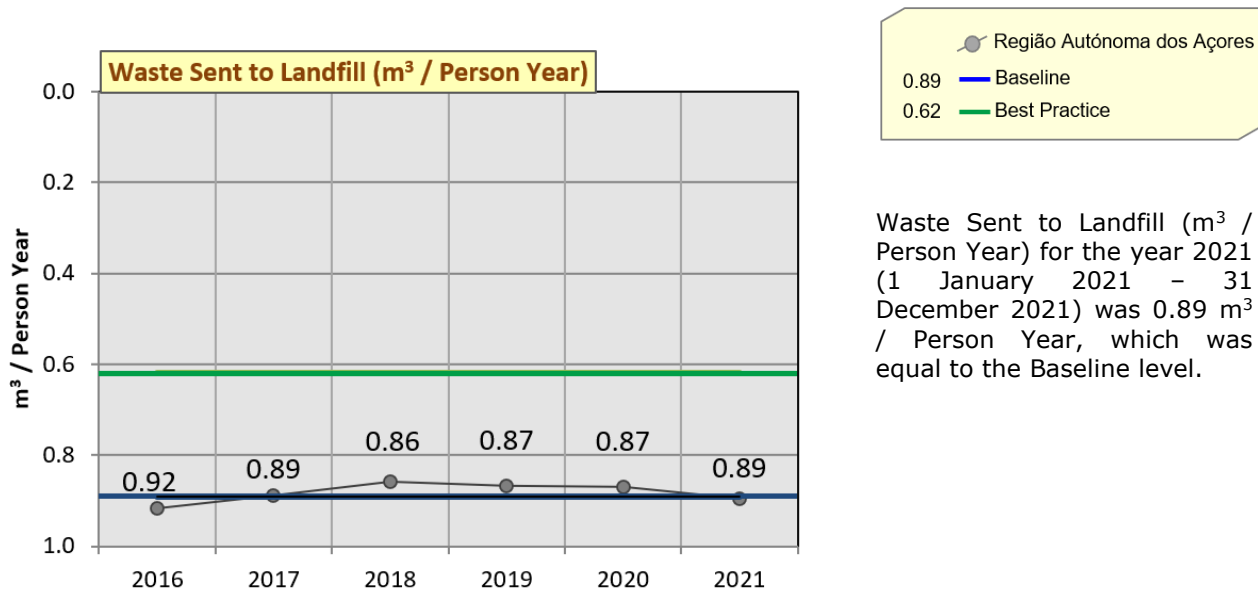
Quantity	Unit	Potable Water Consumption (kL)
20,070,917	cubic metres	20,070,917 kL
	TOTAL	20,070,917 kL

Recycled / Captured Water (%)



4. Waste

Waste Sent to Landfill (m³ / Person Year) ✓

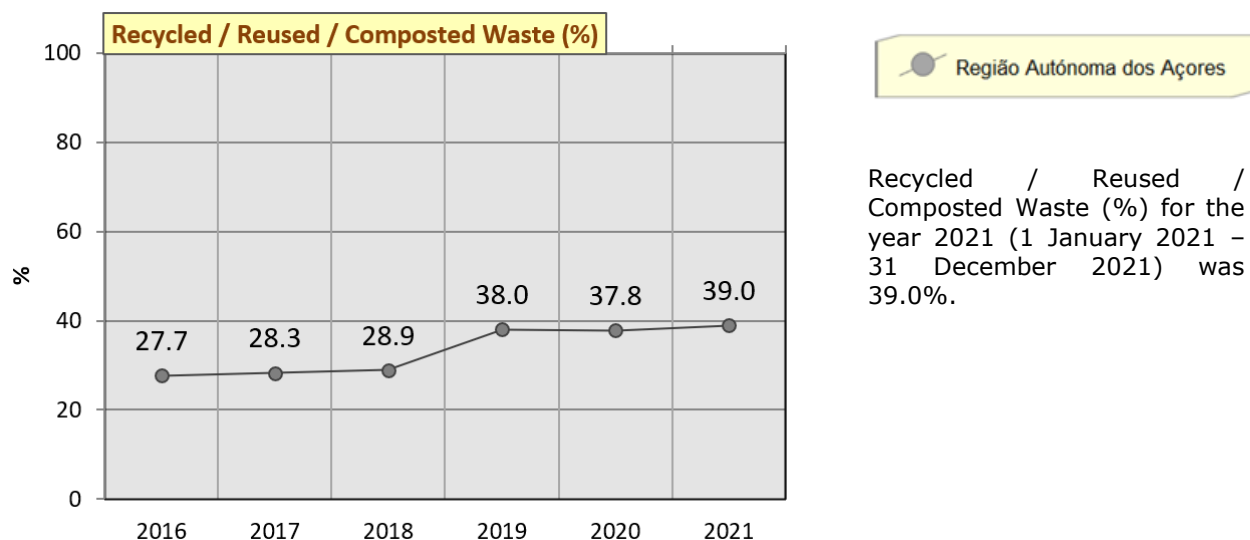


Waste Sent to Landfill (m³ / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 0.89 m³ / Person Year, which was equal to the Baseline level.

2021

Quantity	Unit	Type of Landfill	Type of Waste	Type of Operation	Waste Sent to Landfill (m ³)
64,871	tonnes (uncompacted)	Covered and/or managed waste treatment facility	Unknown (mixed waste types)	Other Operation	216,236.7
				TOTAL	216,236.7 m³

Recycled / Reused / Composted Waste (%)



Recycled / Reused / Composted Waste (%) for the year 2021 (1 January 2021 – 31 December 2021) was 39.0%.

Waste Sent for Incineration (L / Person Year)



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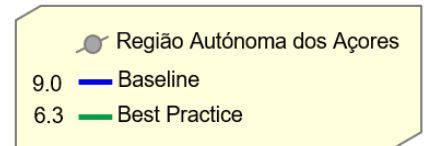
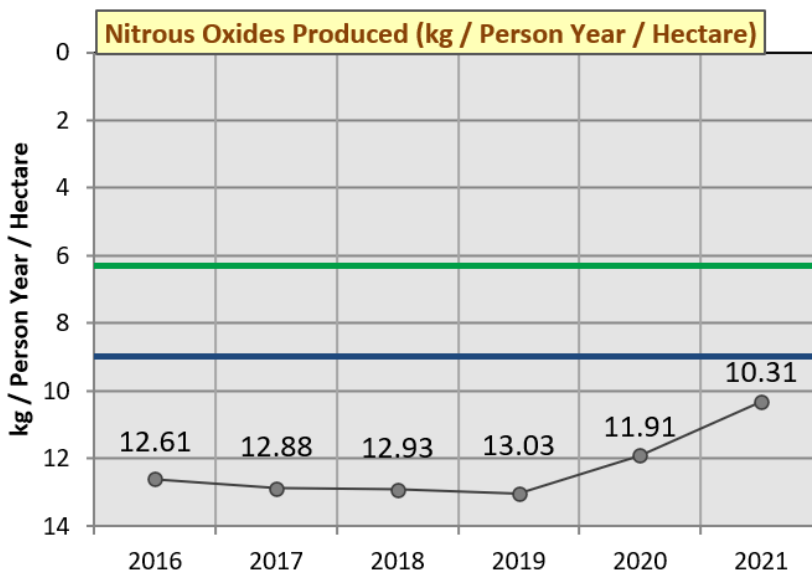
Waste Sent for Incineration (L / Person Year) for the year 2021 (1 January 2021 – 31 December 2021) was 133.1 L / Person Year, which was 5% more than the previous year.

2021

Quantity	Unit	Type of Incineration Technology	Type of Waste	Waste Sent for Incineration (m ³)
2,191	tonnes (uncompacted)	Open Burning	Textiles	7,303.3 m ³
3,048	tonnes (uncompacted)	Open Burning	Plastics	10,160.0 m ³
4,408	tonnes (uncompacted)	Open Burning	Nappies	14,693.3 m ³
			subtotal	32,156.7 m³
			TOTAL	32,156,666.7 L

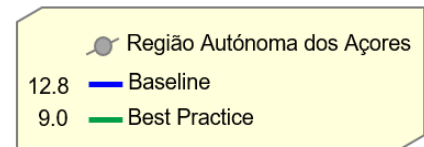
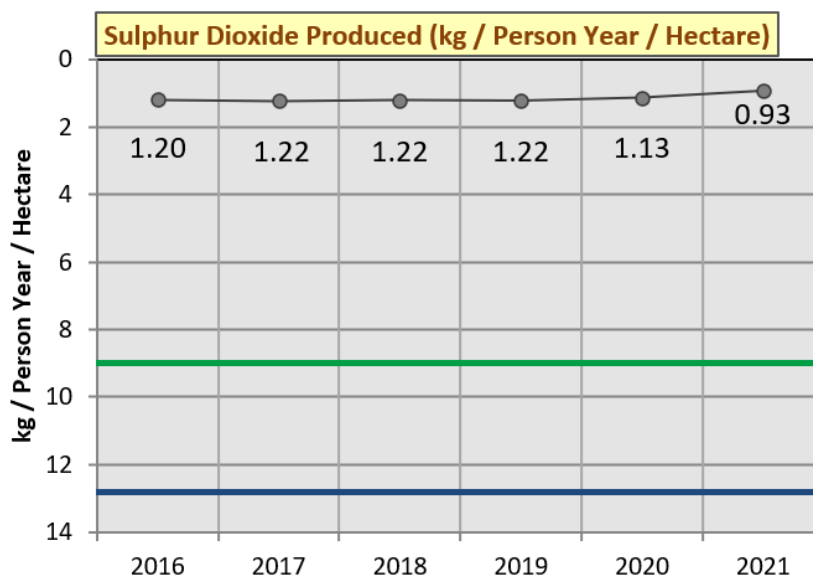
5. Sector Specific

Nitrous Oxides Produced (kg / Person Year / Hectare) ✕



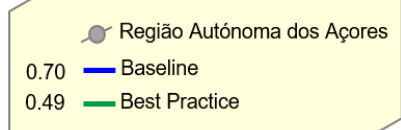
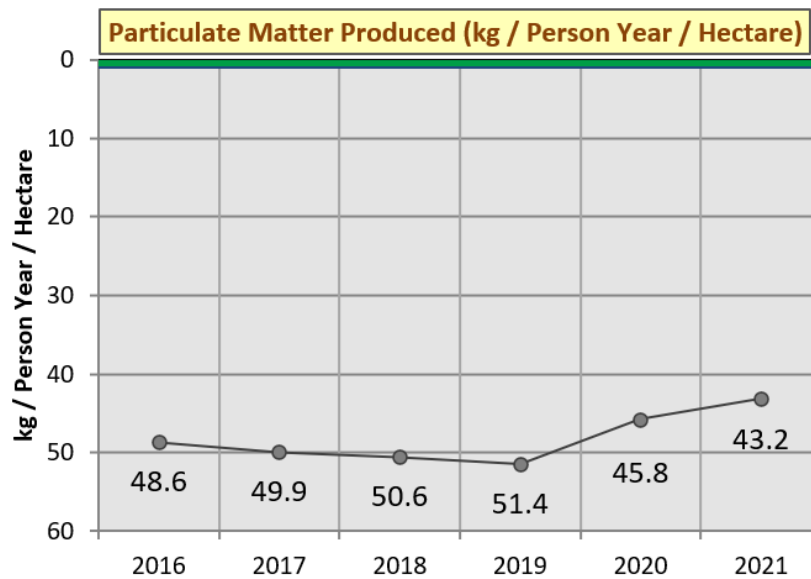
Nitrous Oxides Produced (kg / Person Year / Hectare) for the year 2021 (1 January 2021 – 31 December 2021) was 10.31 kg / Person Year / Hectare, which is 14.6% worse than the baseline level.

Sulphur Dioxide Produced (kg / Person Year / Hectare) ★



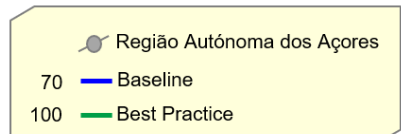
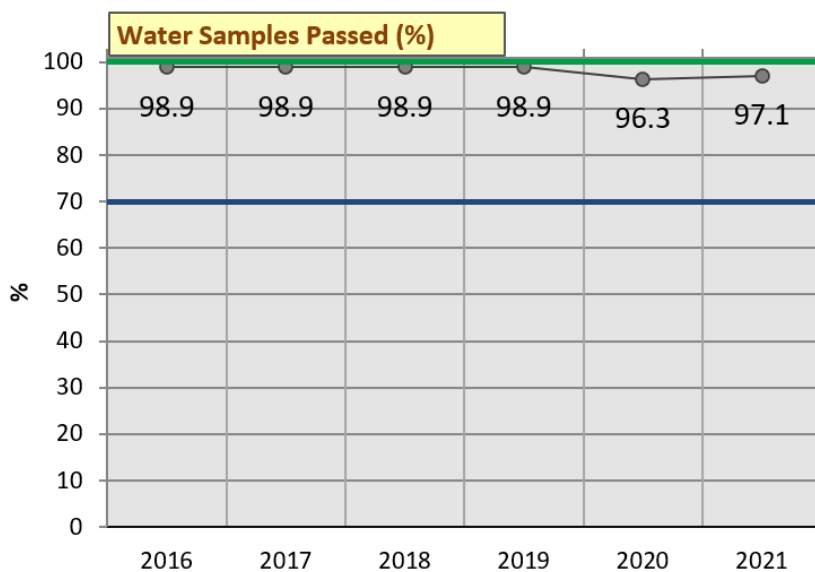
Sulphur Dioxide Produced (kg / Person Year / Hectare) for the year 2021 (1 January 2021 – 31 December 2021) was 0.93 kg / Person Year / Hectare, which is 89.7% better than the best practice level.

Particulate Matter Produced (kg / Person Year / Hectare) ✖



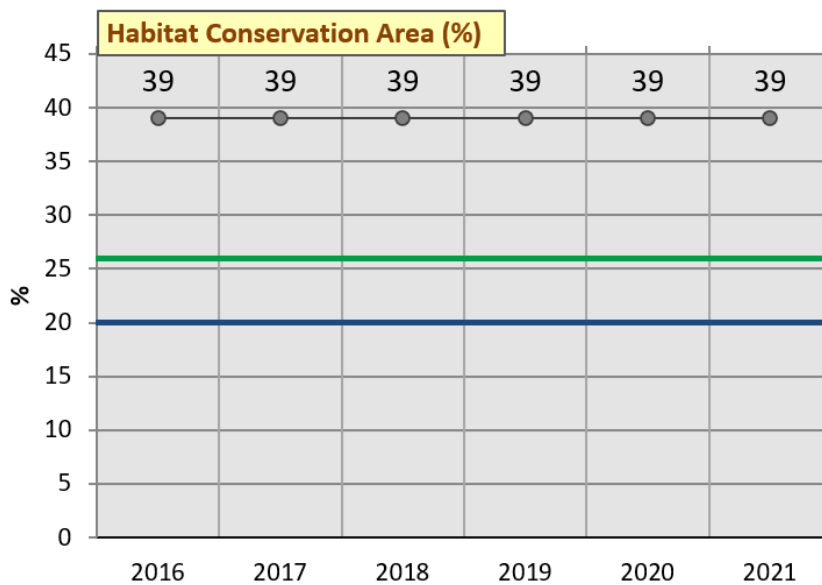
Particulate Matter Produced (kg / Person Year / Hectare) for the year 2021 (1 January 2021 – 31 December 2021) was 43.2 kg / Person Year, which is 6071% worse than the baseline level.

Water Samples Passed (%) ✔



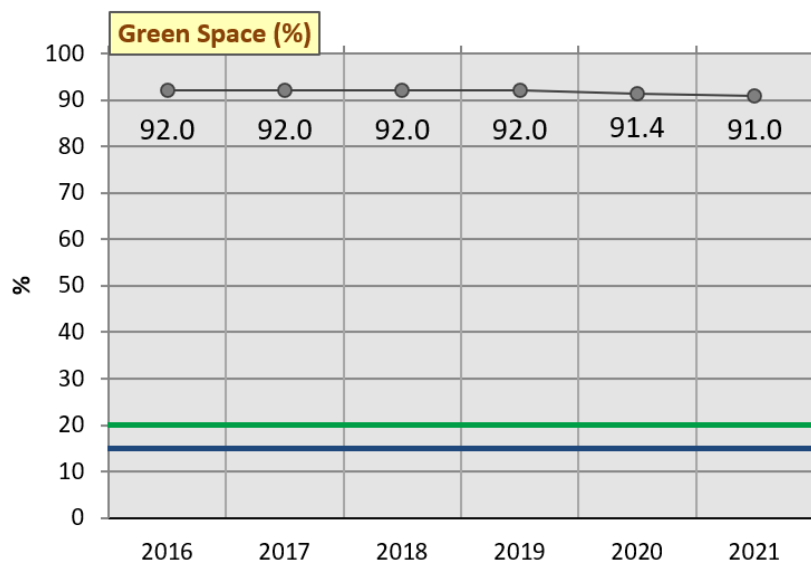
Water Samples Passed (%) for the year 2021 (1 January 2021 – 31 December 2021) was 97.1%, which was 27.1% better than the Baseline level.

Habitat Conservation Area (%) ★



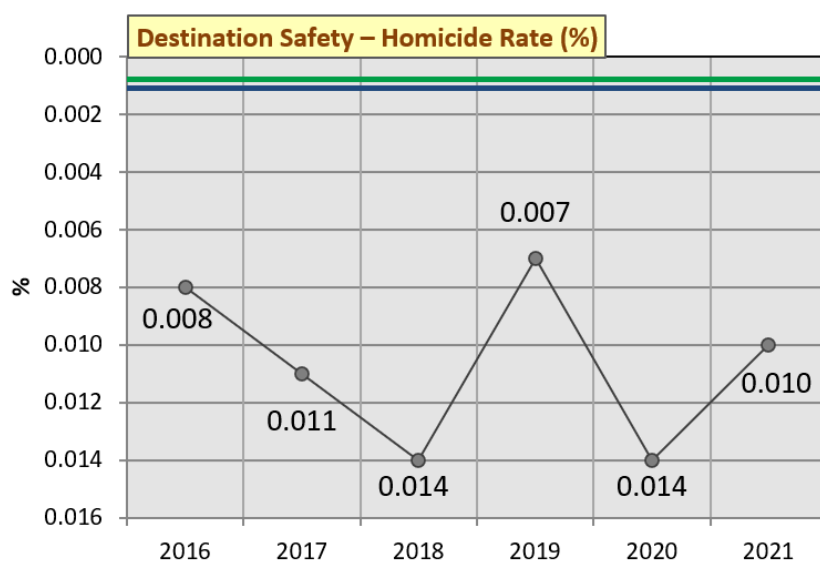
Habitat Conservation Area (%) for the year 2021 (1 January 2021 – 31 December 2021) was 39.0%, which was 13.0% better than the Best Practice level.

Green Space (%) ★



Green Space (%) for the year 2021 (1 January 2021 – 31 December 2021) was 91.0%, which was 71.0% better than the Best Practice level.

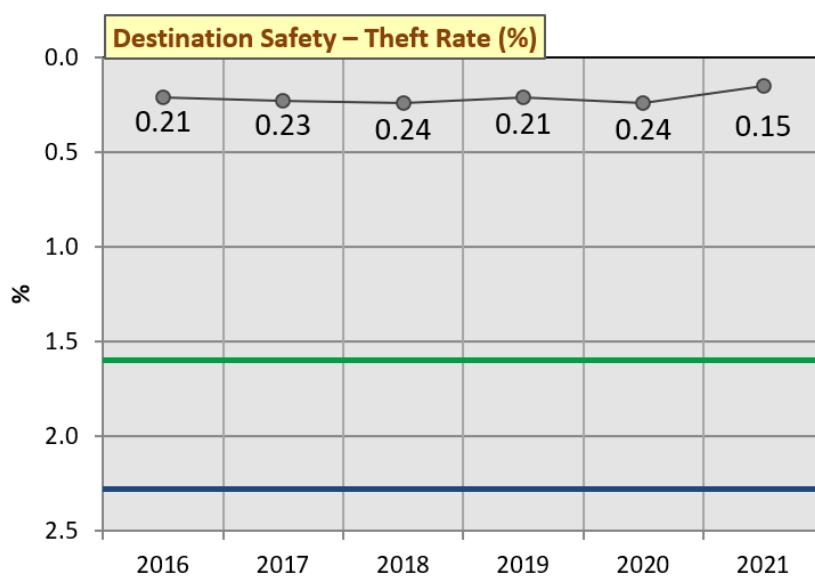
Destination Safety – Homicide Rate (%) ✕



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0.0011 Baseline
0.0008 Best Practice

Destination Safety – Homicide Rate (%) for the year 2021 (1 January 2021 – 31 December 2021) was 0.01%, which was 0.0089% worse than the Baseline level.

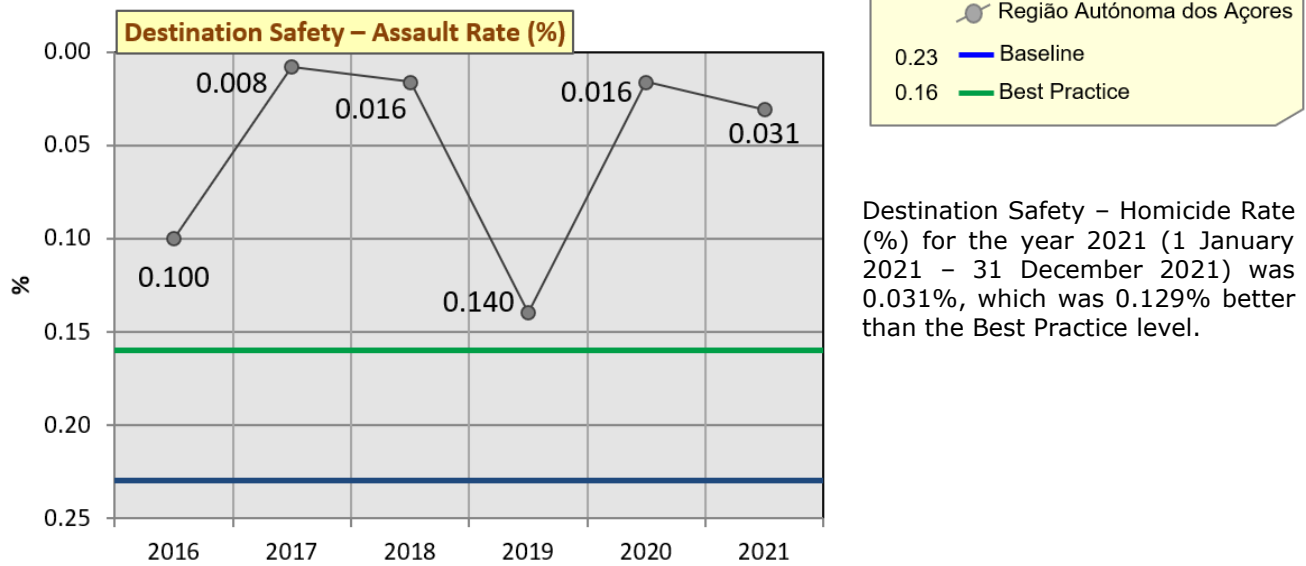
Destination Safety – Theft Rate (%) ★



Região Autónoma dos Açores
2.28 Baseline
1.60 Best Practice

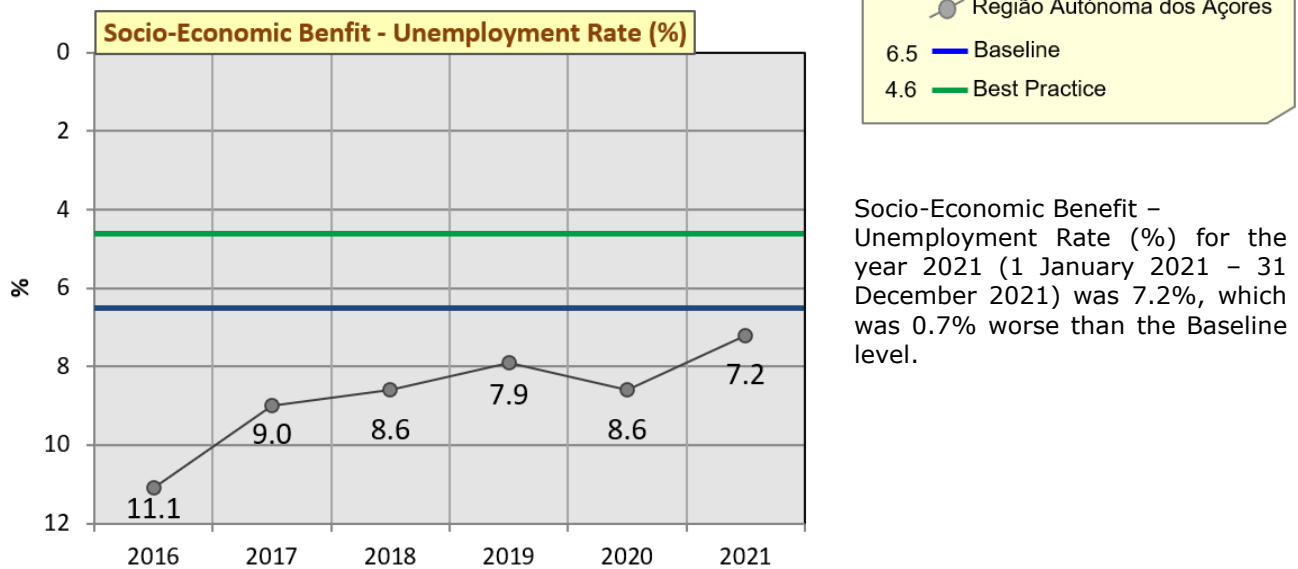
Destination Safety – Theft Rate (%) for the year 2021 (1 January 2021 – 31 December 2021) was 0.15%, which was 1.45% better than the Best Practice level.

Destination Safety – Assault Rate (%) ★



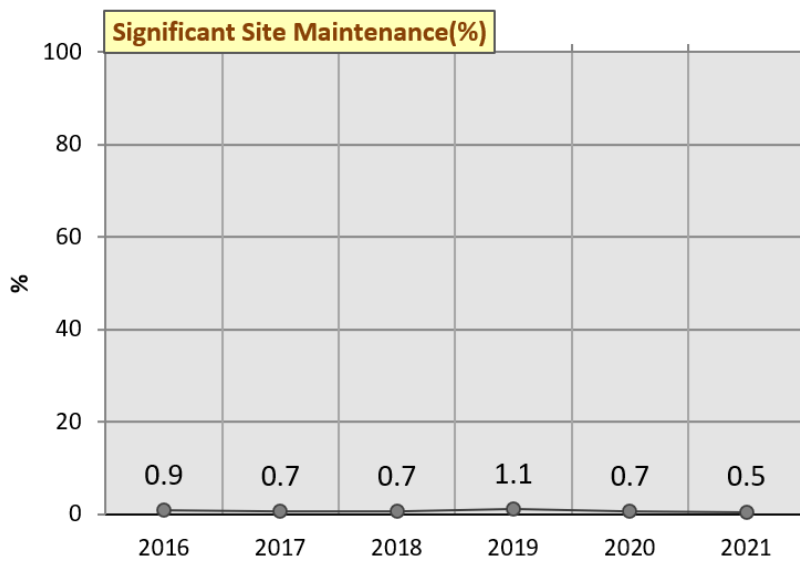
Destination Safety – Homicide Rate (%) for the year 2021 (1 January 2021 – 31 December 2021) was 0.031%, which was 0.129% better than the Best Practice level.

Socio-Economic Benefit – Unemployment Rate (%) ✕



Socio-Economic Benefit – Unemployment Rate (%) for the year 2021 (1 January 2021 – 31 December 2021) was 7.2%, which was 0.7% worse than the Baseline level.

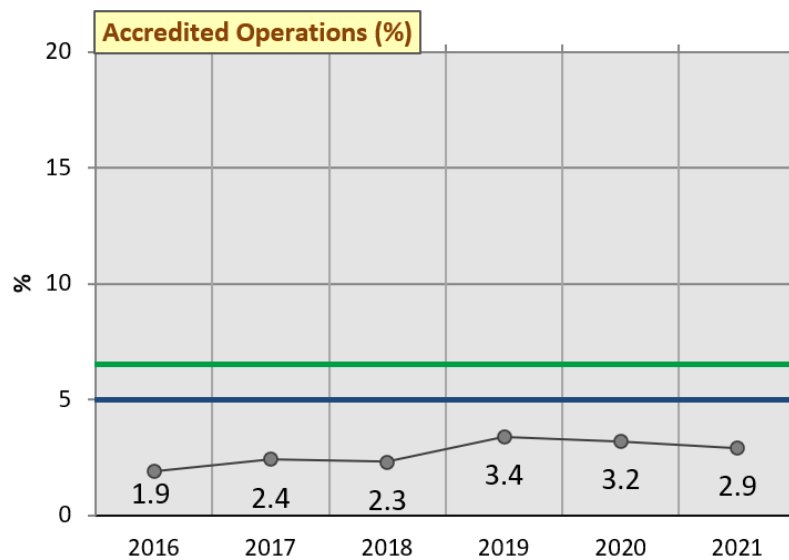
Significant Site Maintenance (%)



Região Autónoma dos Açores

Significant Site Maintenance (%) for the year 2021 (1 January 2021 – 31 December 2021) was 0.5%.

Accredited Operations (%) ✕



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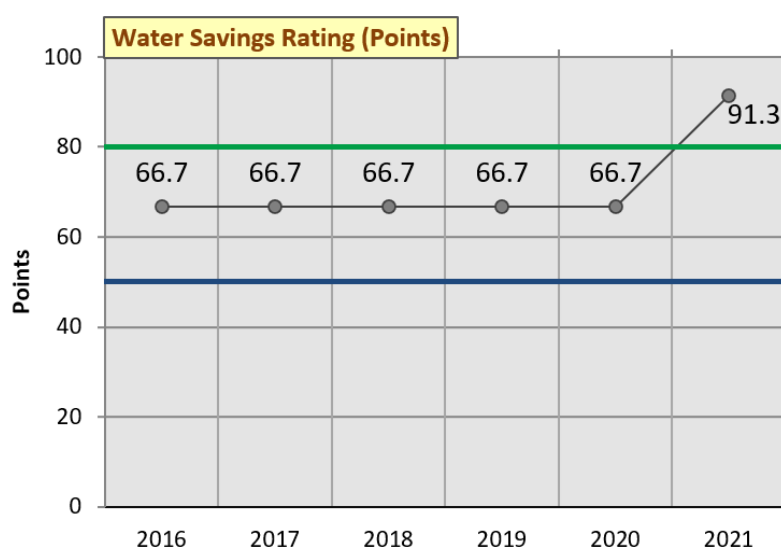
5.0 — Baseline

6.5 — Best Practice

Accredited Operations (%) for the year 2021 (1 January 2021 – 31 December 2021) was 2.9%, which was 2.1% below the Baseline level.

6. Water Savings

Water Savings Rating (Points) ★

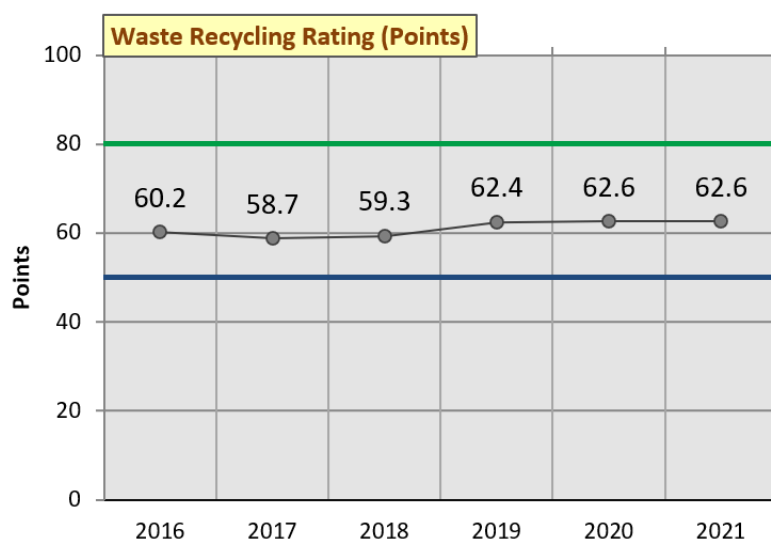


Water Savings Rating (Points) for the year 2021 (1 January 2021 – 31 December 2021) was 91.3 Points, which was 11.3 Points better than the Best Practice level.

Water Savings Measures	Frequency / Percentage Rating	Water Savings Rating (Points)
Check for leaks	Every month	73.9 Points
Low/dual flush toilets	100%	100.0 Points
Low flow tap fittings	100%	100.0 Points
Low flow shower fittings	Not Relevant / Not Available	
Water sprinklers used after dark	Not Relevant / Not Available	
Minimal irrigation landscaping	Not Relevant / Not Available	
Use of recycle/grey/rain water	Not Relevant / Not Available	
	Overall Rating:	91.3 Points

7. Waste Recycling

Waste Recycling Rating (Points) ✓

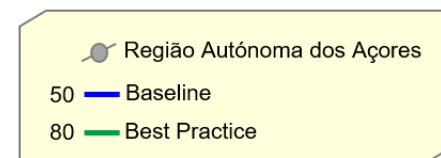
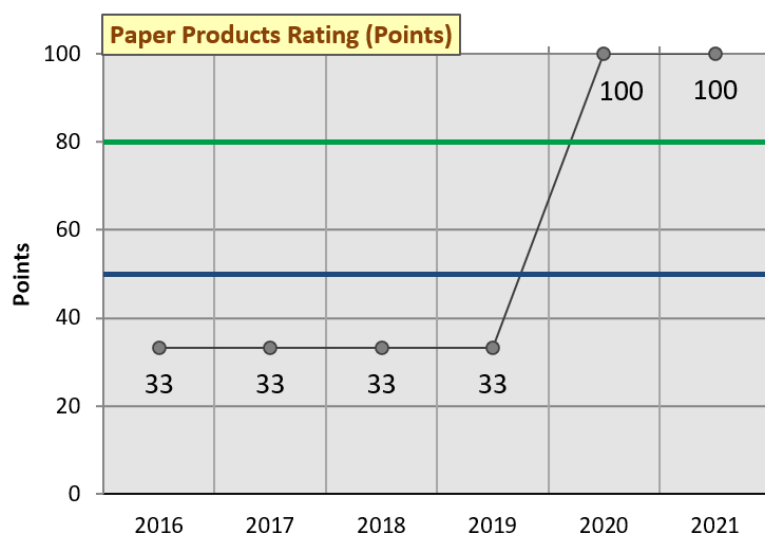


Waste Recycling Rating (Points) for the year 2021 (1 January 2021 – 31 December 2021) was 62.6 Points, which was 12.6 Points better than the Baseline level.

Waste Recycling Measures	Frequency / Percentage Rating	Waste Recycling Rating (Points)
Glass	40-59%	65.1 Points
Paper/card	40-59%	65.1 Points
Iron & steel (ferrous metals)	40-59%	65.1 Points
Other metals (non-ferrous)	Not Relevant / Not Available	
Plastics	20-39%	58.8 Points
Rubber	Not Relevant / Not Available	
Green waste	20-39%	58.8 Points
	Overall Rating:	62.6 Points

8. Paper

Paper Products Rating (Points) ★

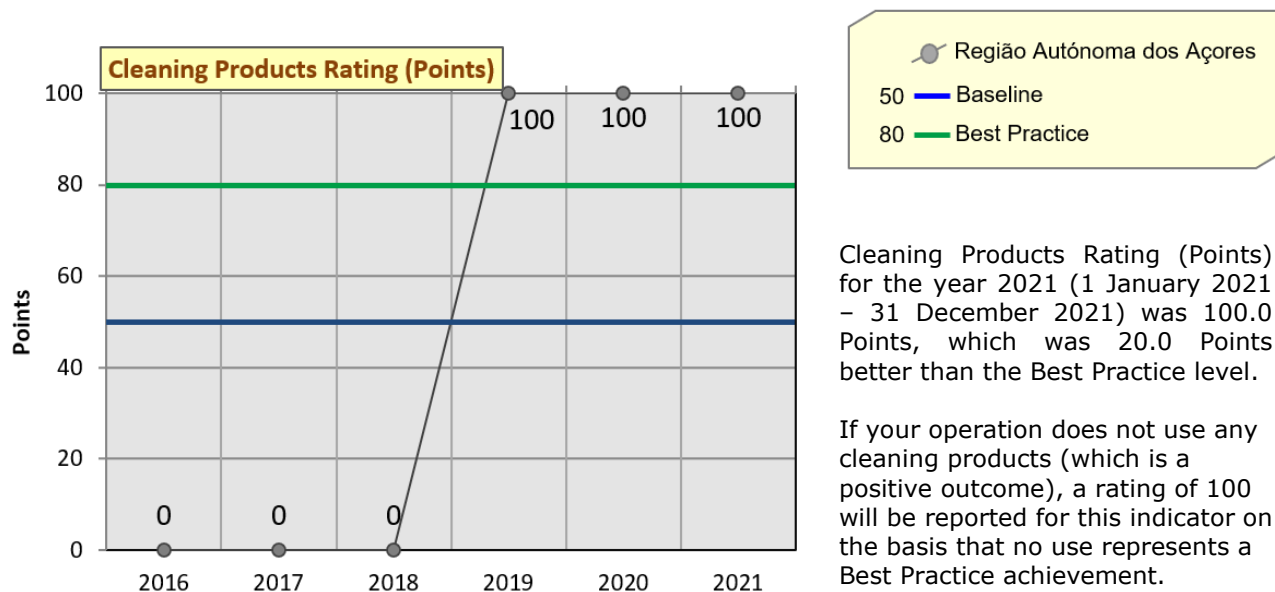


Paper Products Rating (Points) for the year 2021 (1 January 2021 – 31 December 2021) was 100.0 Points, which was 20.0 Points better than the Best Practice level.

Paper Products Measures	Frequency / Percentage Rating	Paper Products Rating (Points)
Office paper	100%	100.0 Points
Serviettes	Not Relevant / Not Available	
Tissues	Not Relevant / Not Available	
Toilet tissue	Not Relevant / Not Available	
Paper towels	Not Relevant / Not Available	
	Overall Rating:	100.0 Points

9. Cleaning

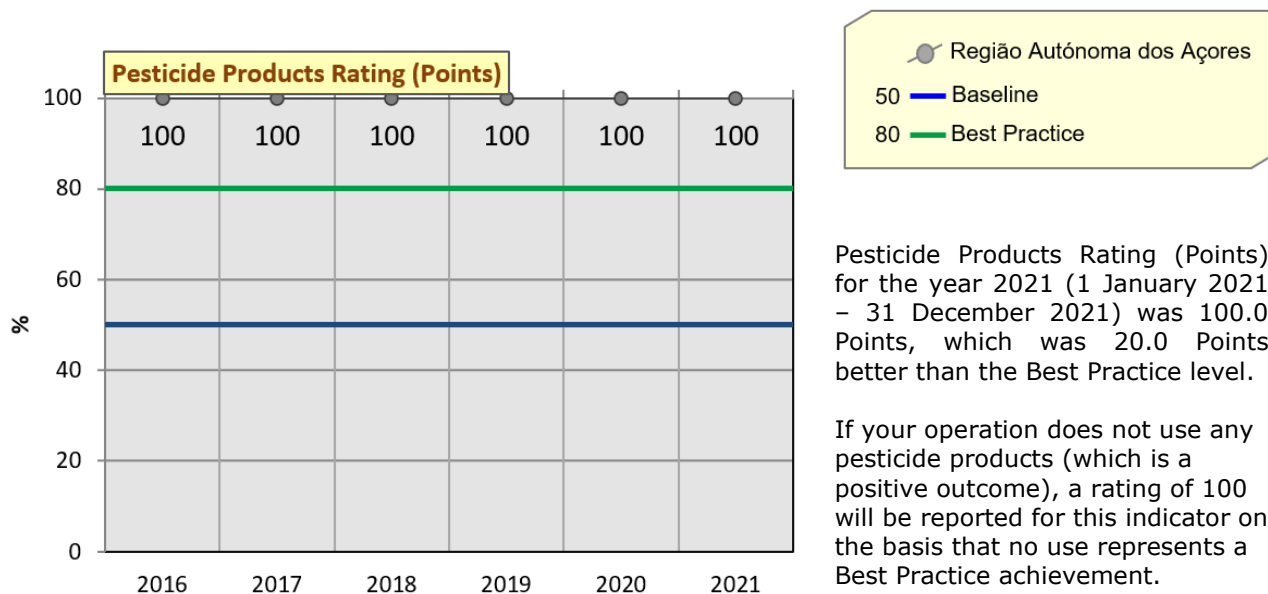
Cleaning Products Rating (Points) ★



Cleaning Products Measures	Frequency / Percentage Rating	Cleaning Products Rating (Points)
Hard floor cleaners	Not Relevant / Not Available	100.0 Points
Carpet cleaners	Not Relevant / Not Available	100.0 Points
Interior surface cleaners	Not Relevant / Not Available	100.0 Points
External surface cleaners	Not Relevant / Not Available	100.0 Points
Glass cleaners	Not Relevant / Not Available	100.0 Points
Detergents	Not Relevant / Not Available	100.0 Points
Personal hygiene	Not Relevant / Not Available	100.0 Points
	Overall Rating:	100.0 Points

10. Pesticides

Pesticide Products Rating (Points) ★



Pesticide Products Measures	Frequency / Percentage Rating	Pesticide Products Rating (Points)
Weed killers	Not Relevant / Not Available	100.0 Points
Fungal killers	Not Relevant / Not Available	100.0 Points
Rodent killers	Not Relevant / Not Available	100.0 Points
Insect killers	Not Relevant / Not Available	100.0 Points
	Overall Rating:	100.0 Points

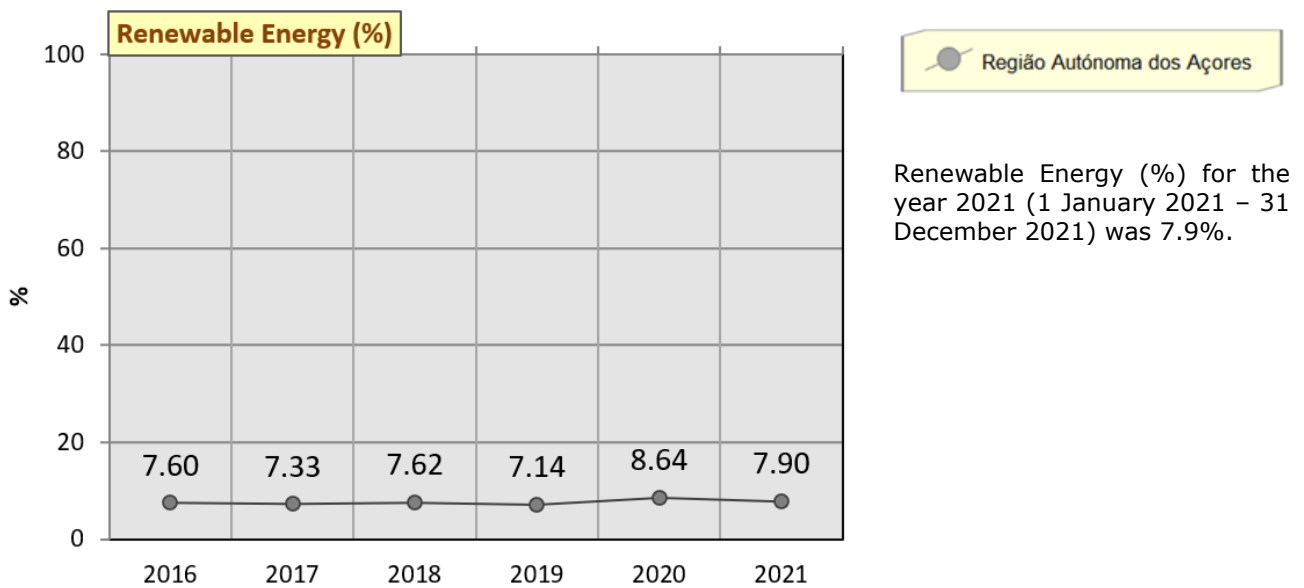
OPTIONAL BENCHMARKING INDICATORS

Região Autónoma dos Açores has also nominated optional Operation Selected and Specified Indicator/s that they consider relevant to their specific operation and locality. The Operation Selected and Specified Indicator/s do not form part of the formal annual benchmarking exercise.

1. Selected Indicators

Selected Indicators are from a supplied list of EarthCheck indicators.

Renewable Energy (%)



The supplied data has been compiled by **Região Autónoma dos Açores** in the prescribed manner, authorised by a senior executive of the company and submitted for an annual assessment.

CONCLUSION AND RECOMMENDATIONS

Congratulations, **Região Autónoma dos Açores** has met the requirements to be recognised as an EarthCheck Benchmarked Community.

In addition to having a Sustainability Policy in place, 14 of the assessed EarthCheck indicator(s) are at or above the Baseline level.

From the benchmarking data provided, nine indicator(s), *Sulphur Dioxide Produced, Habitat Conservation Area, Green Space, Destination Safety – Theft Rate, Destination Safety – Assault Rate, Water Savings Rating, Paper Products Rating, Cleaning Products Rating, and Pesticide Products Rating*, are at or above the Best Practice level, which is an achievement to be highly commended.

The six indicator(s) that fell below the Baseline level were *Potable Water Consumption, Nitrous Oxides Produced, Particulate Matter Produced, Destination Safety – Homicide Rate, Socio-Economic Benefit – Unemployment Rate, and Accredited Operations*.

The value for Potable Water Consumption were 2.9% below the Baseline level. **Região Autónoma dos Açores** is encouraged, therefore, to review current water use and the possibility of increasing recycling and reuse (e.g. using non-hazardous rain water and/or grey water for watering plants and washing exterior surfaces).

The value for Nitrous Oxides Produced was 14.6% below the Baseline. The **Região Autónoma dos Açores** is encouraged to promote the use of public transport within the destination and to investigate opportunities of switching to cleaner and more efficient combustion fuels (e.g. renewables, LPG) and processes.

The value for Accredited Operations was 2.1% below the baseline. The **Região Autónoma dos Açores** is encouraged to promote environmental accreditation to hotels, restaurants and other business within the destination

The **Região Autónoma dos Açores** is encouraged to continue to make improvements in the above indicator/s and to ensure that any indicator/s below baseline is addressed in the organisation's risk assessment and long term sustainability approach.

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 **Região Autónoma dos Açores** 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, the **Região Autónoma dos Açores** is encouraged to ensure that Potable Water Consumption, Nitrous Oxides Produced, Particulate Matter Produced, Destination Safety – Homicide Rate, Socio-Economic Benefit – Unemployment Rate, and Accredited Operations are at Baseline performance or better. In line with EarthCheck Policy this would enable the **Região Autónoma dos Açores** to continue to meet the benchmarking requirements of the EarthCheck program.



EARTHCHECK

Benchmarks Assessed by EarthCheck

SUMMARY OF SUPPLIED BENCHMARKING DATA

Activity Measures

Person Years	241,622
Total Destination Area	232,655

Supplied Benchmarking Data

Energy

Energy Consumption (MJ / Person Year)

Supplied	13,061,431 GJ
Calculated	54.1 GJ / Person Year
Baseline	55.6 GJ / Person Year
Best Practice	38.9 GJ / Person Year
Difference	2.8% better than the Baseline level

Green Power (Purchased Electricity) (%)

Supplied	0%
Calculated	0%

Greenhouse Gas Emissions (Scope 1 and Scope 2) (t CO₂-e / Person Year)

Supplied	896,939.1 t CO ₂ -e
Calculated	3.7 t CO ₂ -e / Person Year
Baseline	4.0 t CO ₂ -e / Person Year
Best Practice	2.8 t CO ₂ -e / Person Year
Difference	7.2% better than the Baseline level

Direct Emissions (Scope 1) (t CO₂-e / Person Year)

Supplied	644,186.4 t CO ₂ -e
Calculated	2.7 t CO ₂ -e / Person Year

Indirect Emissions (Scope 2) (t CO₂-e / Person Year)

Supplied	252,752.7 t CO ₂ -e
Calculated	1.0 t CO ₂ -e / Person Year

Indirect Emissions (Scope 3) (kg CO₂-e / Person Year)

Supplied	82,419.8 t CO ₂ -e
Calculated	0.3 t CO ₂ -e / Person Year

Waste Indirect Emissions (Scope 3) (kg CO₂-e / Person Year)

Supplied	82,419.8 t CO ₂ -e
Calculated	0.3 t CO ₂ -e / Person Year

Water

Potable Water Consumption (kL / Person Year)

Supplied	20,070,917 kL
Calculated	83.1 kL / Person Year
Baseline	80.75 kL / Person Year
Best Practice	56.53 kL / Person Year
Difference	2.9% below the Baseline level

Recycled / Captured Water (%)

Supplied	0%
Calculated	0%

Water Savings Rating (Points)

Supplied	91.3 Points
Calculated	91.3 Points
Baseline	50 Points
Best Practice	80 Points
Difference	11.3 Points better than the Best Practice level

Waste

Waste Sent to Landfill (m³ / Person Year)

Supplied	216,236.7 m ³
Calculated	0.89 m ³ / Person Year
Baseline	0.89 m ³ / Person Year
Best Practice	0.62 m ³ / Person Year
Difference	Equal to the Baseline level

Recycled / Reused / Composted Waste (%)

Supplied	39.0%
Calculated	39.0%

Waste Recycling Rating (Points)

Supplied	62.6 Points
Calculated	62.6 Points
Baseline	50 Points
Best Practice	80 Points
Difference	12.6 Points better than the Baseline level

Waste Sent for Incineration (L / Person Year)

Supplied	32,156,666.7 L
Calculated	133.1 L / Person Year

Paper**Paper Products Rating (Points)**

Supplied	100.0 Points
Calculated	100.0 Points
Baseline	50 Points
Best Practice	80 Points
Difference	20.0 Points better than the Best Practice level

Cleaning**Cleaning Products Rating (Points)**

Supplied	100.0 Points
Calculated	100.0 Points
Baseline	50 Points
Best Practice	80 Points
Difference	20.0 Points better than the Best Practice level

Pesticides**Pesticide Products Rating (Points)**

Supplied	100.0 Points
Calculated	100.0 Points
Baseline	50 Points
Best Practice	80 Points
Difference	20.0 Points better than the Best Practice level

Sector Specific**Nitrous Oxides Produced (kg / Person Year)**

Supplied	2,601,325 kg
Calculated	10.3 kg / Person Year / Hectare
Baseline	9.0 kg / Person Year / Hectare
Best Practice	6.3 kg / Person Year / Hectare
Difference	14.6% worse than the Baseline level

Sulphur Dioxide Produced (kg / Person Year)

Supplied	233,609 kg
Calculated	0.9 kg / Person Year / Hectare
Baseline	12.8 kg / Person Year / Hectare
Best Practice	9.0 kg / Person Year / Hectare
Difference	89.7% better than the Best Practice level

Particulate Matter Produced (kg / Person Year)

Supplied	10,900,425 kg
Calculated	43.2 kg / Person Year / Hectare
Baseline	0.70 kg / Person Year / Hectare
Best Practice	0.49 kg / Person Year / Hectare
Difference	6071% worse than the Baseline level

Water Samples Passed (%)

Supplied	97.1%
Calculated	97.1%
Baseline	70 %
Best Practice	100 %
Difference	27.1% better than the Baseline level

Habitat Conservation Area (%)

Supplied	39.0%
Calculated	39.0%
Baseline	20 %
Best Practice	26 %
Difference	13.0% better than the Best Practice level

Green Space (%)

Supplied	91.0%
Calculated	91.0%
Baseline	15 %
Best Practice	20 %
Difference	71.0% better than the Best Practice level

Destination Safety – Homicide Rate (%)

Supplied	0.01%
Calculated	0.01%
Baseline	0.0011%
Best Practice	0.0008%
Difference	0.0089% below the Baseline level

Destination Safety – Theft Rate (%)

Supplied	0.15%
Calculated	0.15%
Baseline	2.28%
Best Practice	1.60%
Difference	1.45% better than the Best Practice level

Destination Safety – Assault Rate (%)

Supplied	0.03%
Calculated	0.03%
Baseline	0.23%
Best Practice	0.16%
Difference	0.13% better than the Best Practice level

**Socio-Economic Benefit –
Unemployment Rate (%)**

Supplied	7.2%
Calculated	7.2%
Baseline	6.5%
Best Practice	4.6%
Difference	0.7% below the Baseline level

Significant Site Maintenance (%)

Supplied	0.5%
Calculated	0.5%

Accredited Operations (%)

Supplied	2.9%
Calculated	2.9%
Baseline	5 %
Best Practice	6.5 %
Difference	2.1% below the Baseline level

Renewable Energy (%)

Supplied	7.9%
Calculated	7.9%

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 (m³) or litres (L)). These are: 1 kg (uncompacted waste) = 0.00333333 m³ or 3.33333 L and 1 kg (compacted waste) = 0.00153846 m³ 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).