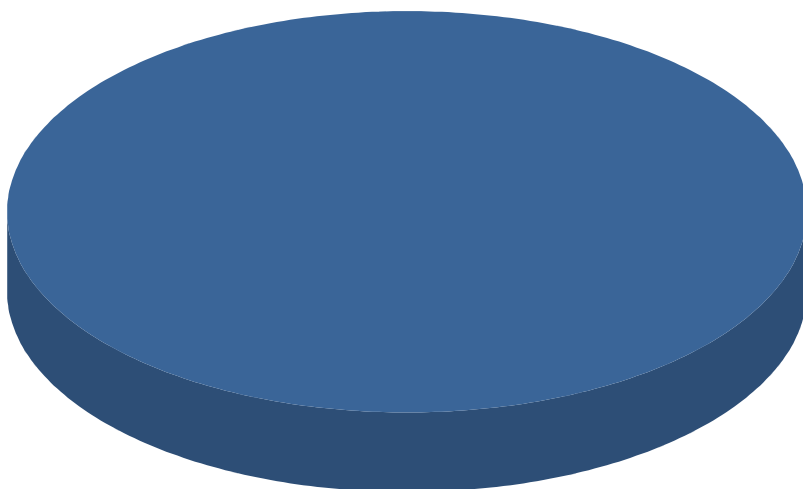


Carbon Calculator Results

Business Name: Spier Wines
Country Name: South Africa
Creation Date: 10/15/2025 1:02:30PM
Data Collection Period: Jul 2024 to Jun 2025
Report Grade: B1 - This dataset has been checked by CCC and is part of the benchmark.

Business Unit - Boundary View



■ Winery 100.0%
 Total: 100.0%

Boundary	Tonne CO ₂ e	%
Winery	1,687.39	100.00
Total	1,687.39	100.00

The Carbon Calculator must be completed on an annual basis. This allows users to monitor their carbon footprint trend and analyse improvements.

Business Name:

Spier Wines

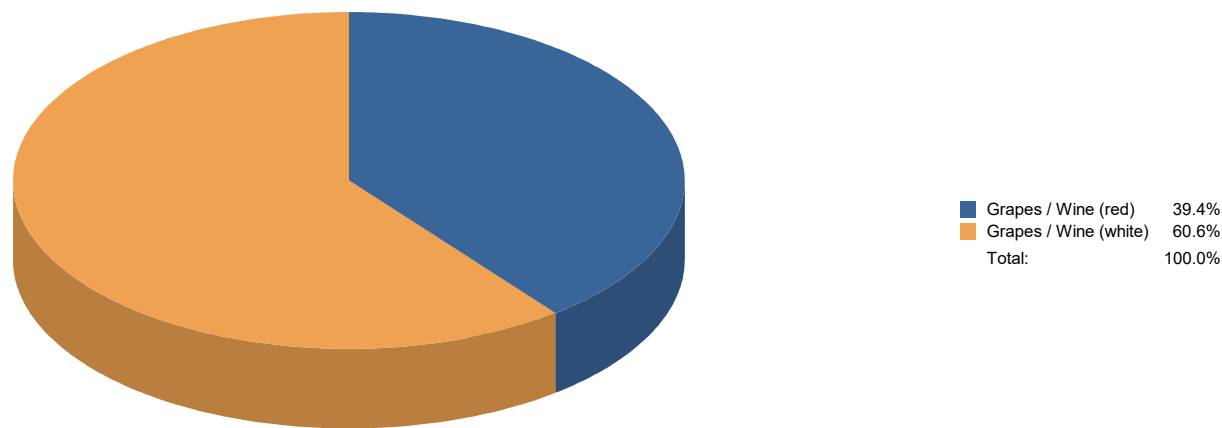
Dataset:

10/15/2025 1:02:30PM

Data Collection Period:

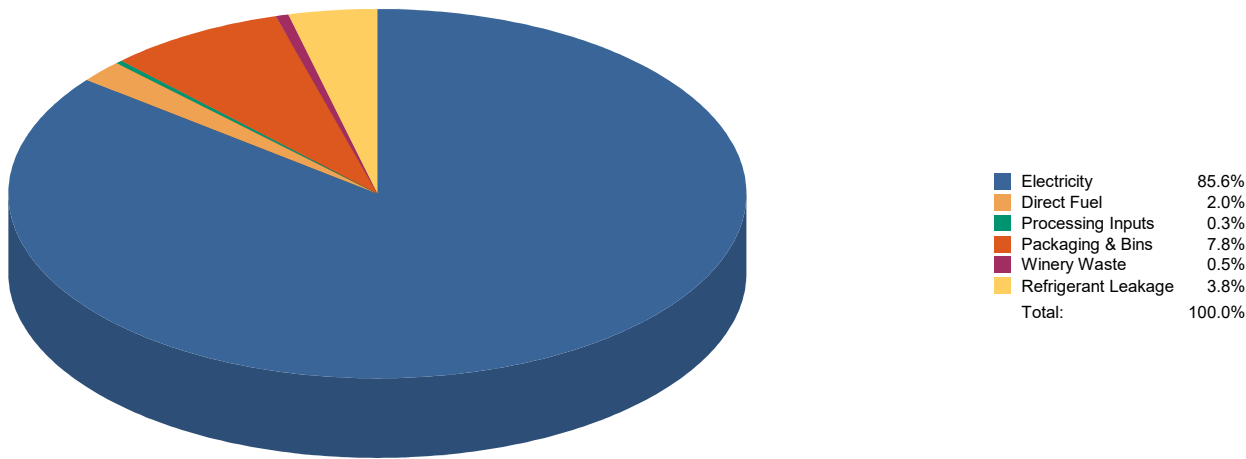
Jul 2024 to Jun 2025

Business Unit - Commodity View



Commodity	Tonne CO ₂ e	%
Grapes / Wine (red)	665.08	39.41
Grapes / Wine (white)	1,022.31	60.59
Total	1,687.39	100.00

Winery - Emission Source View



Emission Source	Tonne CO ₂ e	%
Electricity	1,443.67	85.56
Direct Fuel	32.98	1.95
Processing Inputs	5.60	0.33
Packaging & Bins	132.35	7.84
Winery Waste	9.03	0.54
Refrigerant Leakage	63.76	3.78
Total	1,687.39	100.00

Business Name:

Spier Wines

Dataset:

10/15/2025 1:02:30PM

Data Collection Period:

Jul 2024 to Jun 2025

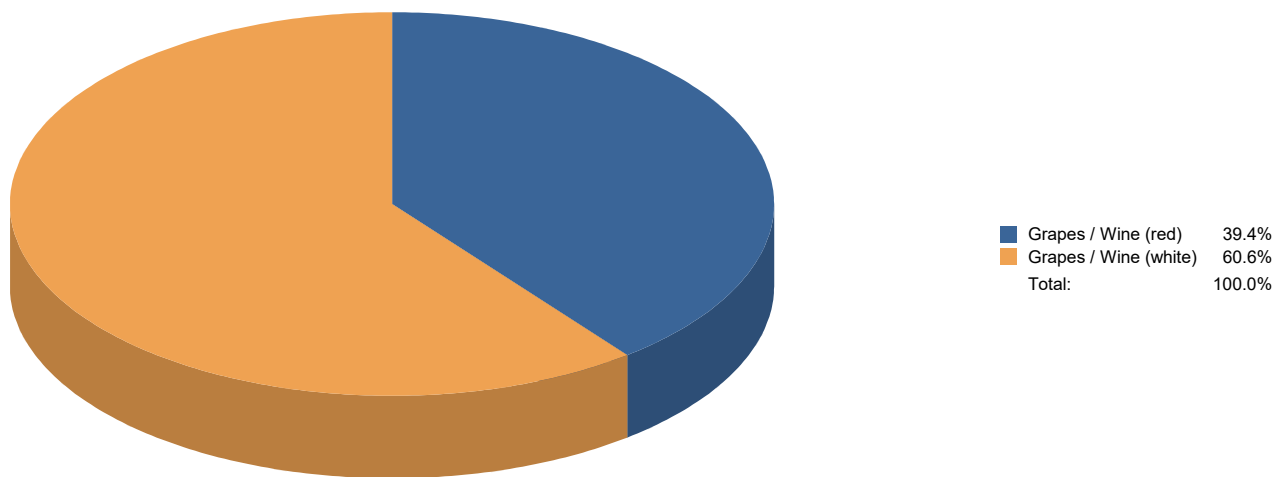
Winery Commodity Benchmark

Commodity	Kg CO2e per L Wine	Benchmark
Grapes / Wine (red) - Bottling	1.04	The CCC regional average is 0.90 Kg CO2e per L Wine and consist of 76 data points.
Grapes / Wine (red) - Processing	0.39	The CCC regional average is 0.53 Kg CO2e per L Wine and consist of 91 data points.
Grapes / Wine (white) - Bottling	1.46	The CCC regional average is 0.84 Kg CO2e per L Wine and consist of 69 data points.
Grapes / Wine (white) - Processing	0.39	The CCC regional average is 0.55 Kg CO2e per L Wine and consist of 81 data points.

Winery Scope Breakdown

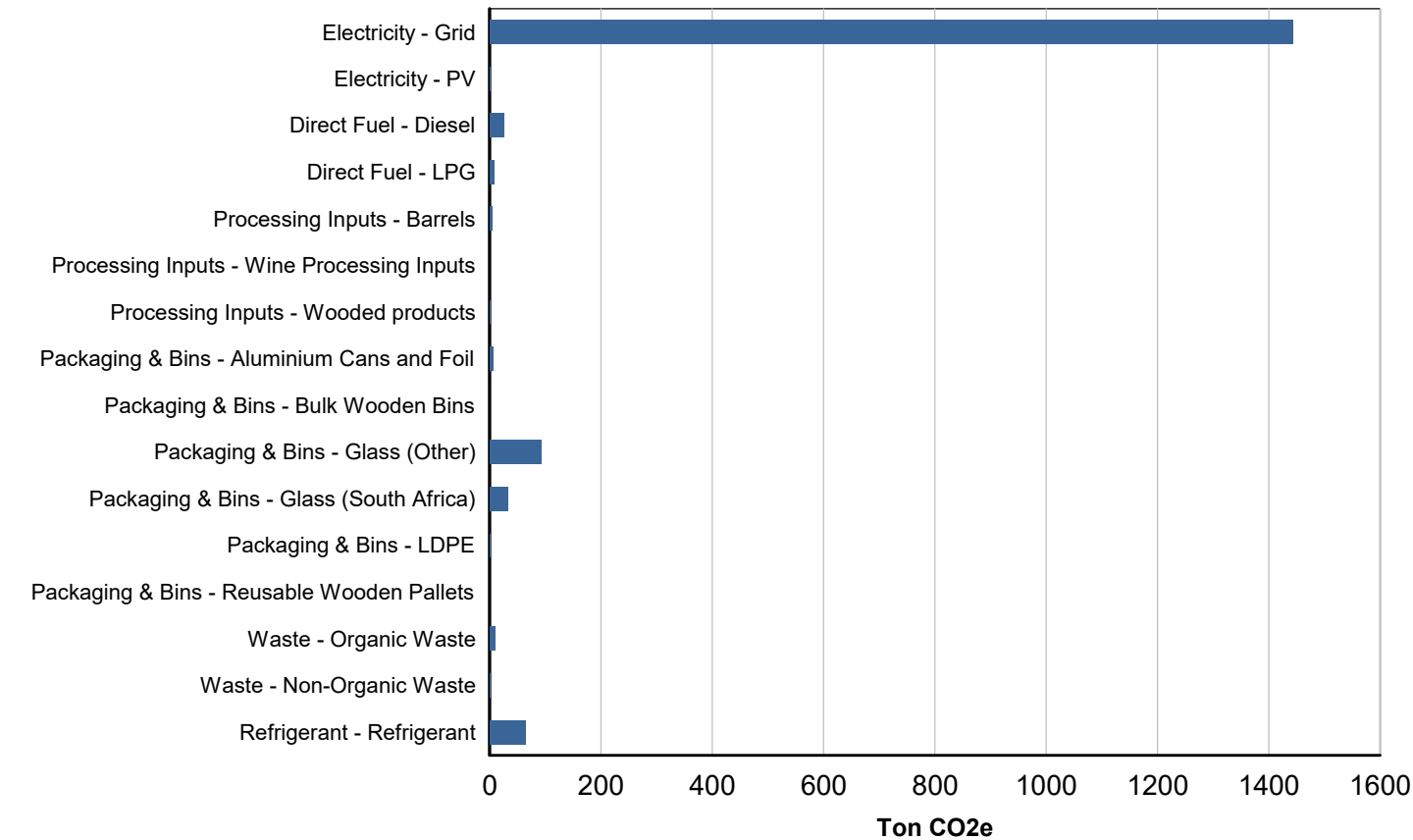
	Tonne CO ₂ e	%
Scope 1	106.25	6.30
Scope 2	1,442.94	85.51
Scope 3	138.20	8.19
Total	1,687.39	100.00

Winery - Commodity View



Commodity	Tonne CO ₂ e	%
Grapes / Wine (red)	665.08	39.41
Grapes / Wine (white)	1,022.31	60.59
Total	1,687.39	100.00

Winery - Emission Source Breakdown

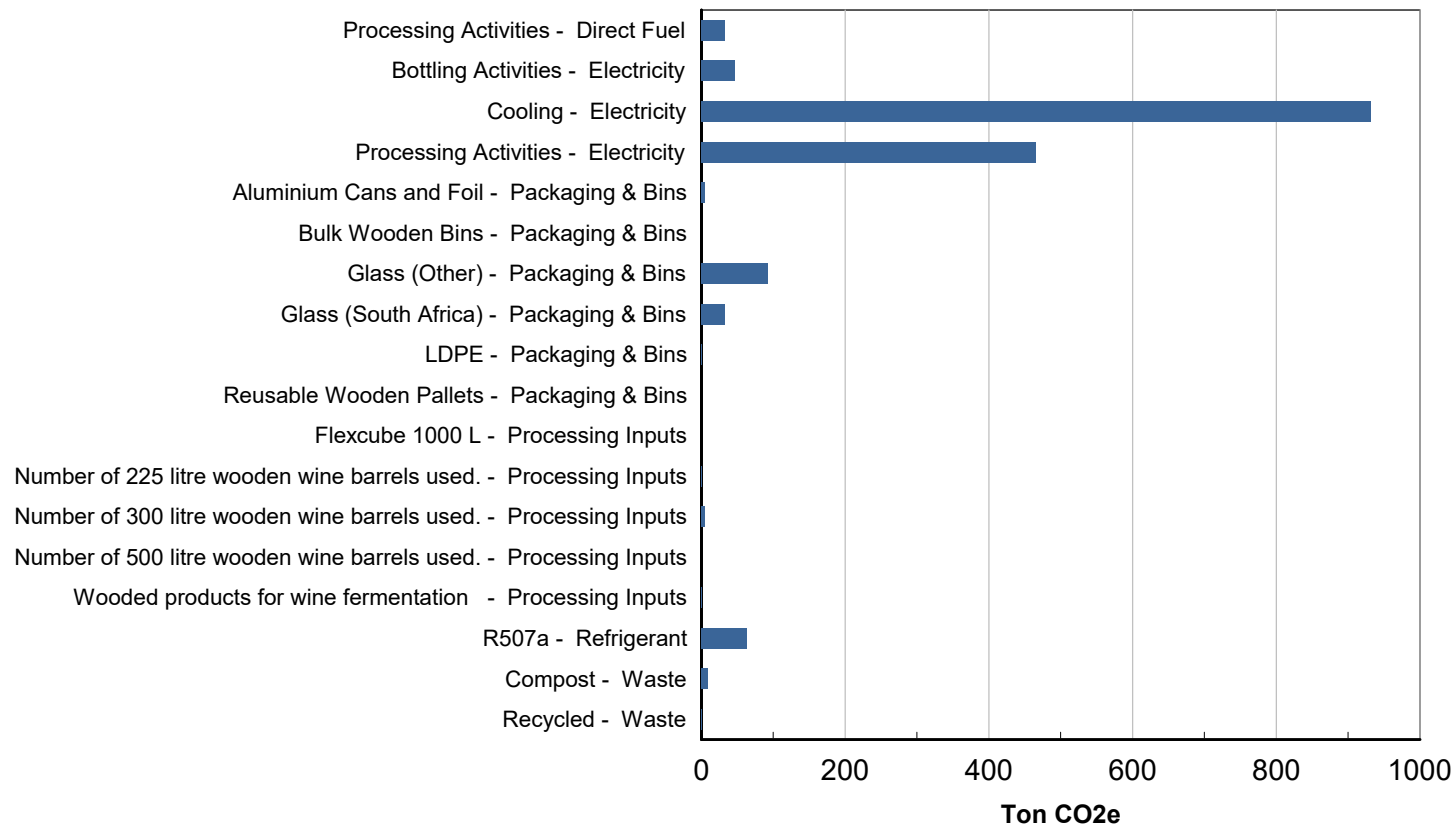


Emission Source	Tonne CO ₂ e	%
Electricity - Grid	1,442.94	85.51
Electricity - PV	0.73	0.04
Direct Fuel - Diesel	25.01	1.48
Direct Fuel - LPG	7.97	0.47
Processing Inputs - Barrels	4.76	0.28
Processing Inputs - Wine Processing Inputs	0.03	0.00
Processing Inputs - Wooded products	0.82	0.05
Packaging & Bins - Aluminium Cans and Foil	5.51	0.33
Packaging & Bins - Bulk Wooden Bins	0.13	0.01
Packaging & Bins - Glass (Other)	93.22	5.52
Packaging & Bins - Glass (South Africa)	33.12	1.96
Packaging & Bins - LDPE	0.36	0.02

Business Name: Spier Wines
Dataset: 10/15/2025 1:02:30PM
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Packaging & Bins - Reusable Wooden Pallets	0.01	0.00
Waste - Organic Waste	8.78	0.52
Waste - Non-Organic Waste	0.25	0.01
Refrigerant - Refrigerant	63.76	3.78
Total	1,687.39	100.00

Winery - Activity Breakdown



Activity Breakdown	Tonne CO ₂ e	%
Processing Activities - Direct Fuel	32.98	1.95
Bottling Activities - Electricity	46.57	2.76
Cooling - Electricity	931.40	55.20
Processing Activities - Electricity	465.70	27.60
Aluminium Cans and Foil - Packaging & Bins	5.51	0.33
Bulk Wooden Bins - Packaging & Bins	0.13	0.01
Glass (Other) - Packaging & Bins	93.22	5.52
Glass (South Africa) - Packaging & Bins	33.12	1.96
LDPE - Packaging & Bins	0.36	0.02
Reusable Wooden Pallets - Packaging & Bins	0.01	0.00
Flexcube 1000 L - Processing Inputs	0.03	0.00
Number of 225 litre wooden wine barrels used. - Processing Inputs	0.26	0.02
Number of 300 litre wooden wine barrels used. - Processing Inputs	4.39	0.26

Business Name: Spier Wines
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Number of 500 litre wooden wine barrels used. - Processing Inputs	0.11	0.01
Wooded products for wine fermentation - Processing Inputs	0.82	0.05
R507a - Refrigerant	63.76	3.78
Compost - Waste	8.78	0.52
Recycled - Waste	0.25	0.01
Total	1,687.39	100.00

Business Name:Spier Wines

Dataset:10/15/2025 1:02:30PM

Data Collection Period:Jul 2024 to Jun 2025

Detailed Carbon Emissions Breakdown

Detailed Activities	Tonne CO ₂ e	%
Electricity - Grid - Processing Activities	465.46	27.58
Electricity - Grid - Cooling	930.93	55.17
Electricity - Grid - Bottling Activities	46.55	2.76
Electricity - PV - Processing Activities	0.24	0.01
Electricity - PV - Cooling	0.47	0.03
Electricity - PV - Bottling Activities	0.02	0.00
Direct Fuel - Diesel - Processing Activities	25.01	1.48
Direct Fuel - LPG - Processing Activities	7.97	0.47
Processing Inputs - Barrels - Number of 225 litre wooden wine barrels used.	0.26	0.02
Processing Inputs - Barrels - Number of 300 litre wooden wine barrels used.	4.39	0.26
Processing Inputs - Barrels - Number of 500 litre wooden wine barrels used.	0.11	0.01
Processing Inputs - Wooded products - Wooded products for wine fermentation	0.82	0.05
Processing Inputs - Wine Processing Inputs - Flexcube 1000 L	0.03	0.00
Waste - Organic Waste - Compost	8.78	0.52
Waste - Non-Organic Waste - Recycled	0.25	0.01
Refrigerant - Refrigerant - R507a	63.76	3.78
Packaging & Bins - Glass (South Africa) - Glass (South Africa)	33.12	1.96
Packaging & Bins - Glass (Other) - Glass (Other)	93.22	5.52
Packaging & Bins - LDPE - LDPE	0.36	0.02
Packaging & Bins - Bulk Wooden Bins - Bulk Wooden Bins	0.13	0.01
Packaging & Bins - Reusable Wooden Pallets - Reusable Wooden Pallets	0.01	0.00
Packaging & Bins - Aluminium Cans and Foil - Aluminium Cans and Foil	5.51	0.33
Total	1,687.39	100.00

Business Name: Spier Wines

Dataset: 10/15/2025 1:02:30PM

Data Collection Period: Jul 2024 to Jun 2025

Winery Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (red)	Litres Water per Ton Grapes Processed	1,665.40	The CCC regional average is 5521.41 Litres Water per Ton Grapes Processed and consist of 77 data points.
Grapes / Wine (red)	Litres Waste Water per Ton Grapes Processed	3,311.54	The CCC regional average is 4038.20 Litres Waste Water per Ton Grapes Processed and consist of 77 data points.
Grapes / Wine (red)	Processing kWh per Ton Grapes Processed	92.23	The CCC regional average is 250.27 Processing kWh per Ton Grapes Processed and consist of 77 data points.
Grapes / Wine (red)	Cooling kWh per Ton Grapes Processed	184.47	The CCC regional average is 263.57 Cooling kWh per Ton Grapes Processed and consist of 77 data points.
Grapes / Wine (red)	Kg Glass per Liter Wine	0.84	The CCC regional average is 0.74 Kg Glass per Liter Wine and consist of 68 data points.

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (white)	Litres Water per Ton Grapes Processed	1,665.40	The CCC regional average is 5894.20 Litres Water per Ton Grapes Processed and consist of 72 data points.
Grapes / Wine (white)	Litres Waste Water per Ton Grapes Processed	3,311.54	The CCC regional average is 4071.57 Litres Waste Water per Ton Grapes Processed and consist of 72 data points.
Grapes / Wine (white)	Processing kWh per Ton Grapes Processed	92.23	The CCC regional average is 247.61 Processing kWh per Ton Grapes Processed and consist of 72 data points.
Grapes / Wine (white)	Cooling kWh per Ton Grapes Processed	184.47	The CCC regional average is 344.51 Cooling kWh per Ton Grapes Processed and consist of 72 data points.
Grapes / Wine (white)	Kg Glass per Liter Wine	1.08	The CCC regional average is 0.72 Kg Glass per Liter Wine and consist of 65 data points.

Business Name:	Spier Wines
Dataset:	10/15/2025 1:02:30PM
Data Collection Period:	Jul 2024 to Jun 2025