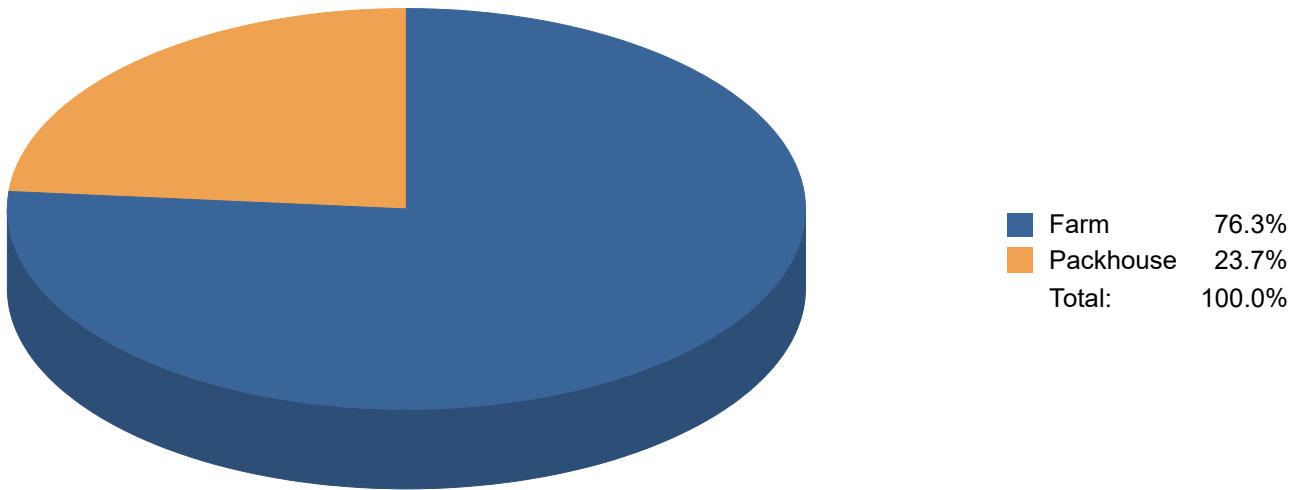


Carbon Calculator Results

Business Name: Groep 91 Uitvoer (Pty) Ltd
Creation Date: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023
Report Grade: B1 - This dataset has been checked by CCC and is part of the benchmark.

Business Unit - Boundary View

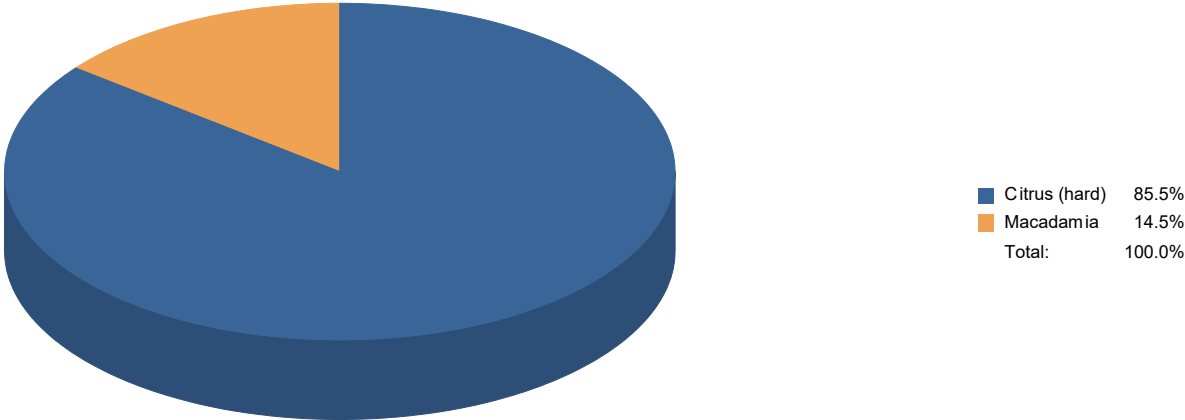


Boundary	Ton CO2e	%
Farm	3,634.52	76.35
Packhouse	1,126.08	23.65
Total	4,760.60	100.00

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

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

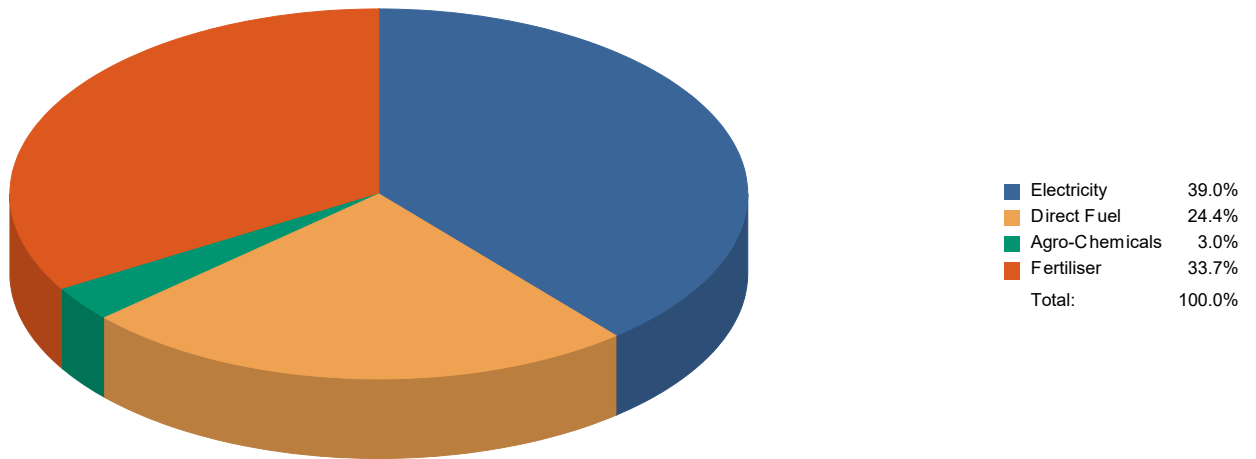
Business Unit - Commodity View



Commodity	Ton CO2e	%
Citrus (hard)	4,071.63	85.53
Macadamia	688.97	14.47
Total	4,760.60	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

Farm - Emission Source View



Emission Source	Ton CO2e	%
Electricity	1,417.18	38.99
Direct Fuel	885.79	24.37
Agro-Chemicals	108.22	2.98
Fertiliser	1,223.33	33.66
Total	3,634.52	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Citrus (hard)	0.08	The CCC regional average is 0.11 Kg CO2e per Kg Fruit and consist of 43 data points.
Macadamia	1.55	The CCC regional average is 2.21 Kg CO2e per Kg Fruit and consist of 8 data points.

Farm Hectare Breakdown

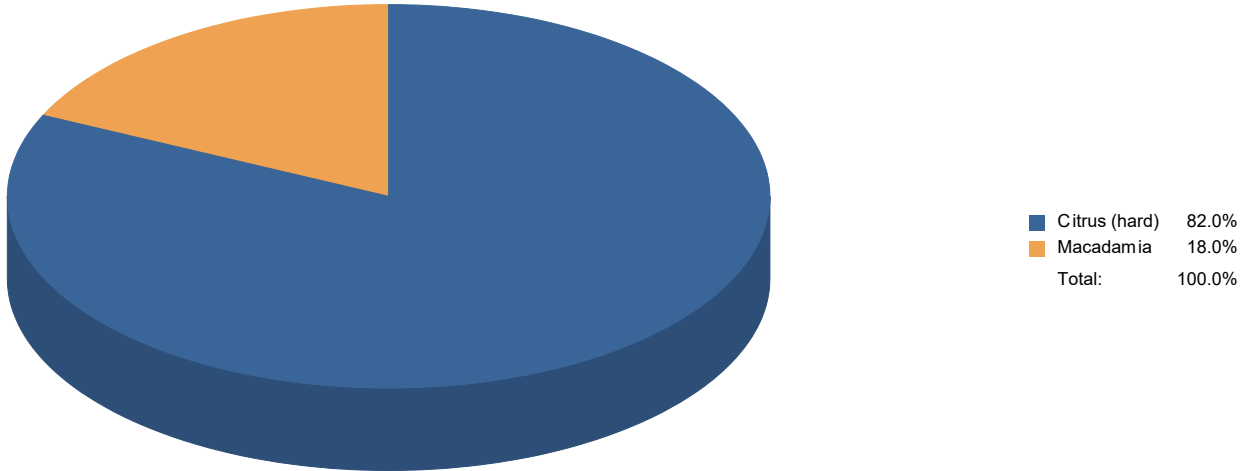
Commodity	Ton CO2e per Bearing Ha
Citrus (hard)	4.13
Macadamia	2.84

Farm Scope Breakdown

	Ton CO2e	%
Scope 1	885.79	24.37
Scope 2	1,417.18	38.99
Scope 3	1,331.55	36.64
Total	3,634.52	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

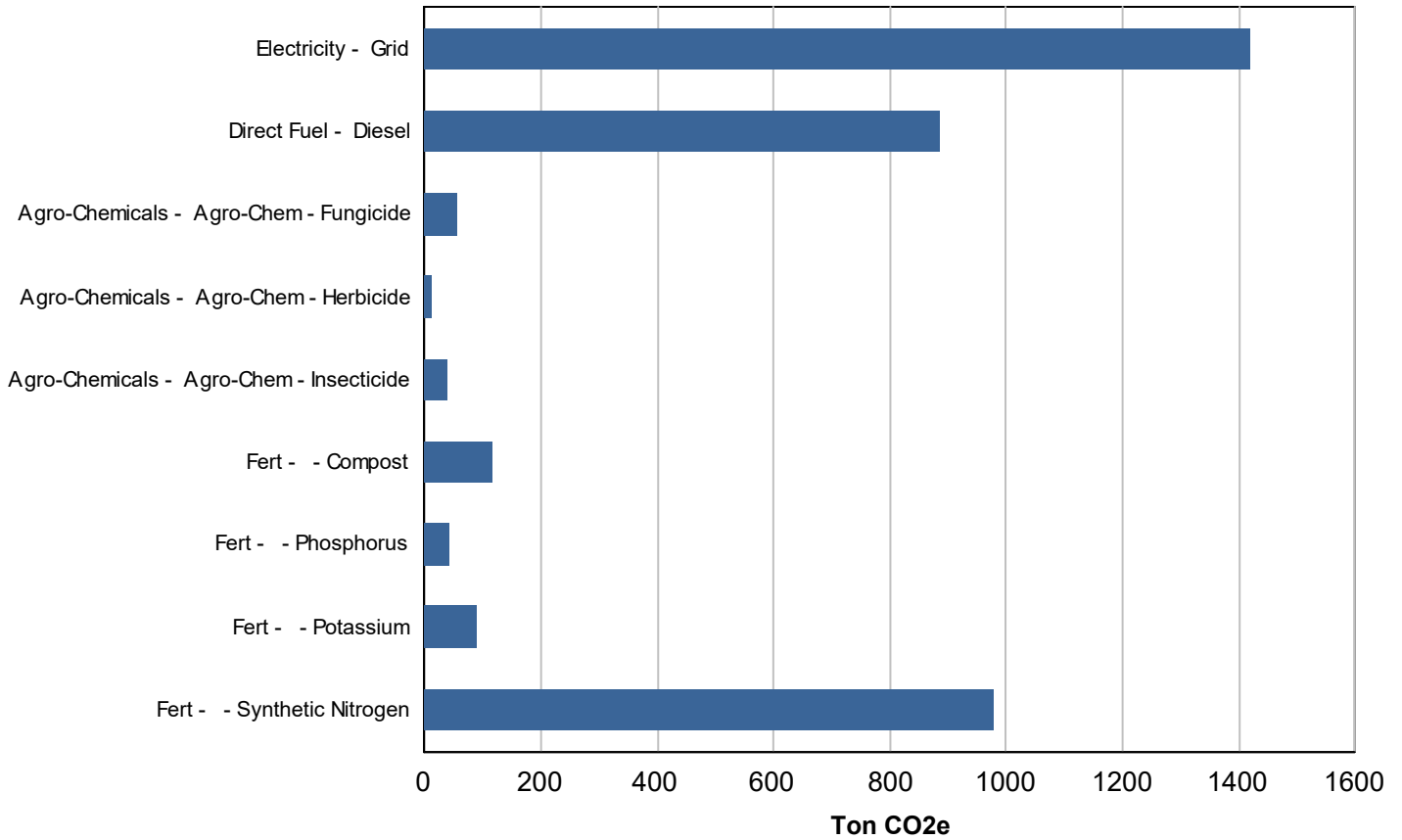
Farm - Commodity View



Commodity	Ton CO2e	%
Citrus (hard)	2,981.11	82.02
Macadamia	653.41	17.98
Total	3,634.52	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

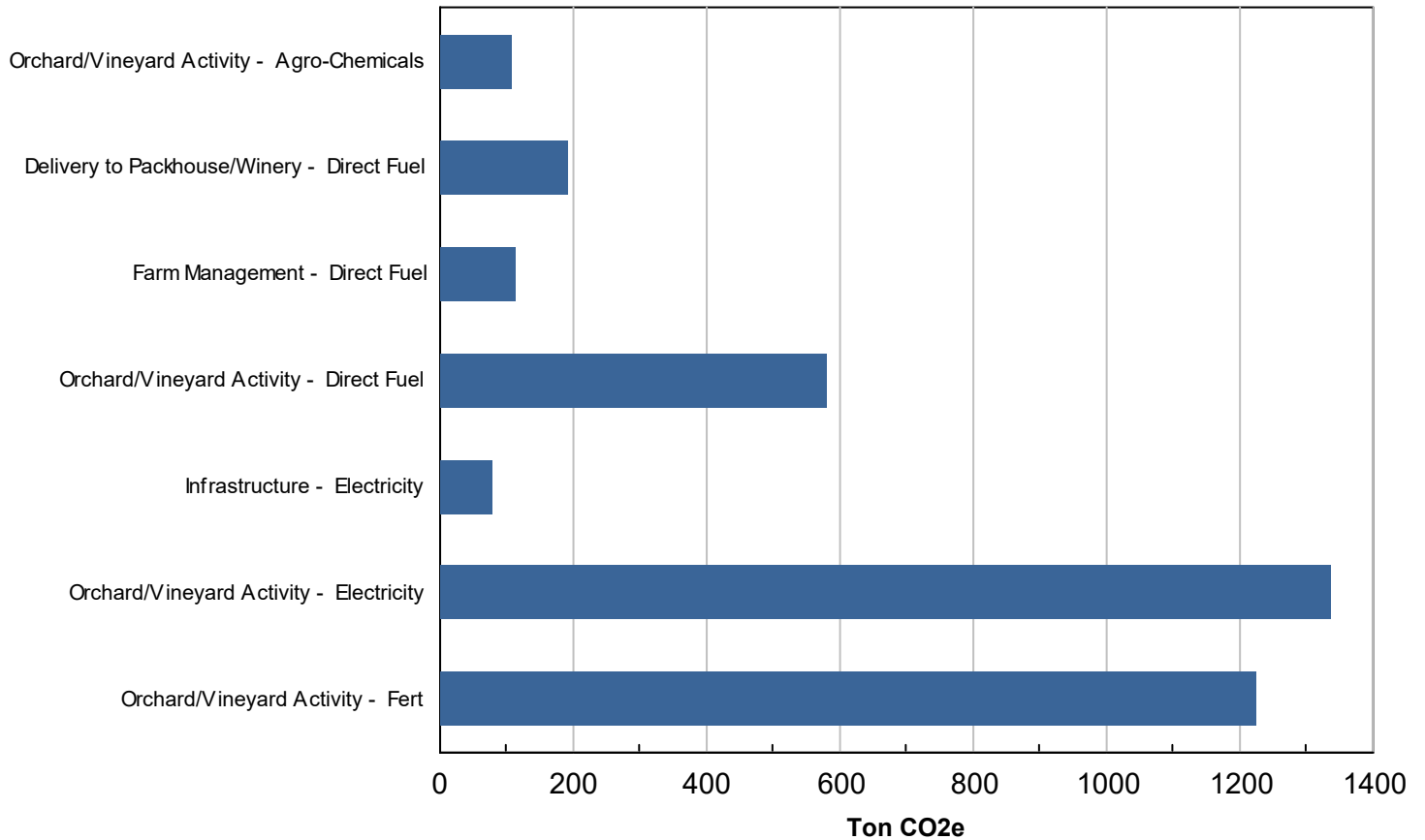
Farm - Emission Source Breakdown



Emission Source	Ton CO2e	%
Electricity - Grid	1,417.18	38.99
Direct Fuel - Diesel	885.79	24.37
Agro-Chemicals - Agro-Chem - Fungicide	54.78	1.51
Agro-Chemicals - Agro-Chem - Herbicide	14.07	0.39
Agro-Chemicals - Agro-Chem - Insecticide	39.36	1.08
Fert - - Compost	115.42	3.18
Fert - - Phosphorus	41.09	1.13
Fert - - Potassium	88.73	2.44
Fert - - Synthetic Nitrogen	978.09	26.91
Total	3,634.52	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

Farm - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Orchard/Vineyard Activity - Agro-Chemicals	108.22	2.98
Delivery to Packhouse/Winery - Direct Fuel	191.92	5.28
Farm Management - Direct Fuel	113.96	3.14
Orchard/Vineyard Activity - Direct Fuel	579.91	15.96
Infrastructure - Electricity	79.69	2.19
Orchard/Vineyard Activity - Electricity	1,337.50	36.80
Orchard/Vineyard Activity - Fert	1,223.33	33.66
Total	3,634.52	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2023/09/11 08:03:14

Data Collection Period: Mar 2022 to Feb 2023

Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	936.25	25.76
Electricity - Grid - Orchard/Vineyard Activity - NBO	401.25	11.04
Electricity - Grid - Infrastructure	79.69	2.19
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	405.94	11.17
Direct Fuel - Diesel - Orchard/Vineyard Activity - NBO	173.97	4.79
Direct Fuel - Diesel - Delivery to Packhouse/Winery	191.92	5.28
Direct Fuel - Diesel - Farm Management	113.96	3.14
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	684.65	18.84
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - NBO	293.44	8.07
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	28.76	0.79
Fert - - Phosphorus - Orchard/Vineyard Activity - NBO	12.33	0.34
Fert - - Potassium - Orchard/Vineyard Activity - BO	62.11	1.71
Fert - - Potassium - Orchard/Vineyard Activity - NBO	26.62	0.73
Fert - - Compost - Orchard/Vineyard Activity - BO	80.79	2.22
Fert - - Compost - Orchard/Vineyard Activity - NBO	34.63	0.95
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	38.34	1.06
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - NBO	16.44	0.45
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	27.55	0.76
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - NBO	11.82	0.33
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	9.85	0.27
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - NBO	4.22	0.12
Total	3,634.52	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Citrus (hard)	kL Water per Ton Fruit	0.25	The CCC regional average is 224.88 kL Water per Ton Fruit and consist of 42 data points.
Citrus (hard)	kL Water per Bearing Ha	13.46	The CCC regional average is 7274.68 kL Water per Bearing Ha and consist of 42 data points.
Citrus (hard)	kL Water per Non-Bearing Ha	15.63	The CCC regional average is 4930.50 kL Water per Non-Bearing Ha and consist of 42 data points.
Citrus (hard)	kWh Orchard / Vineyard Electricity per Ton Fruit	25.00	The CCC regional average is 53.11 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 42 data points.
Citrus (hard)	kWh Orchard / Vineyard Electricity per Bearing Ha	1,336.55	The CCC regional average is 2235.74 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 42 data points.
Citrus (hard)	Liters Orchard / Vineyard Diesel per Ton Fruit	3.47	The CCC regional average is 4.77 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 42 data points.
Citrus (hard)	Liters Orchard / Vineyard Diesel per Bearing Ha	185.36	The CCC regional average is 163.65 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 42 data points.
Citrus (hard)	Kg Pure N per Ton Fruit	1.61	The CCC regional average is 3.54 Kg Pure N per Ton Fruit and consist of 42 data points.
Citrus (hard)	Kg Pure N per Bearing Ha	86.02	The CCC regional average is 98.45 Kg Pure N per Bearing Ha and consist of 42 data points.

Commodity	Consumption Measure	Result	Benchmark
Macadamia	kL Water per Ton Fruit	27.13	The CCC regional average is 828.09 kL Water per Ton Fruit and consist of 8 data points.
Macadamia	kL Water per Bearing Ha	52.76	The CCC regional average is 1701.45 kL Water per Bearing Ha and consist of 8 data points.
Macadamia	kL Water per Non-Bearing Ha	52.63	The CCC regional average is 1522.83 kL Water per Non-Bearing Ha and consist of 8 data points.
Macadamia	kWh Orchard / Vineyard Electricity per Ton Fruit	561.93	The CCC regional average is 566.68 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 8 data points.
Macadamia	kWh Orchard / Vineyard Electricity per Bearing Ha	1,092.88	The CCC regional average is 835.34 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 8 data points.
Macadamia	Liters Orchard / Vineyard Diesel per Ton Fruit	77.93	The CCC regional average is 130.01 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 8 data points.
Macadamia	Liters Orchard / Vineyard Diesel per Bearing Ha	151.57	The CCC regional average is 144.85 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 8 data points.

Business Name: Groep 91 Uitvoer (Pty) Ltd

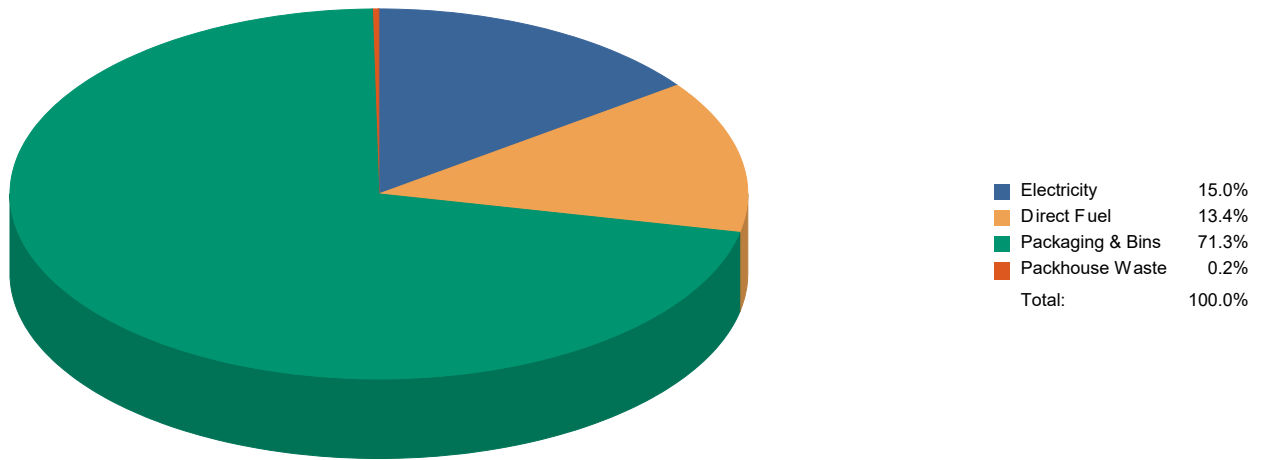
Dataset: 2023/09/11 08:03:14

Data Collection Period: Mar 2022 to Feb 2023

Commodity	Consumption Measure	Result	Benchmark
Macadamia	Kg Pure N per Ton Fruit	36.17	The CCC regional average is 34.82 Kg Pure N per Ton Fruit and consist of 8 data points.
Macadamia	Kg Pure N per Bearing Ha	70.34	The CCC regional average is 62.15 Kg Pure N per Bearing Ha and consist of 8 data points.

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

Packhouse - Emission Source View



Emission Source	Ton CO2e	%
Electricity	169.19	15.03
Direct Fuel	151.40	13.44
Packaging & Bins	802.97	71.31
Packhouse Waste	2.52	0.22
Total	1,126.08	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2023/09/11 08:03:14

Data Collection Period: Mar 2022 to Feb 2023

Packhouse Commodity Benchmark

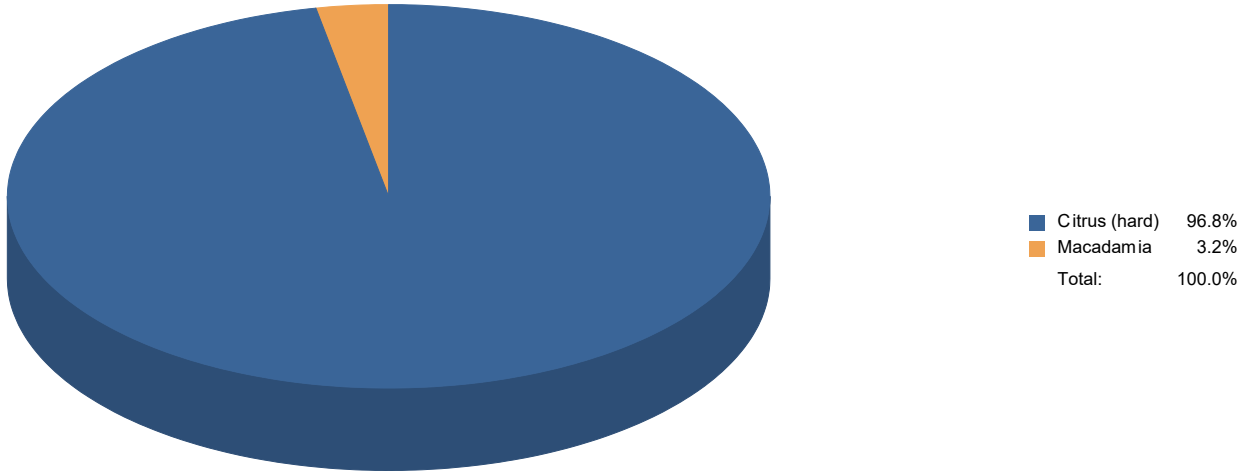
Commodity	Kg CO2e per Kg Fruit	Benchmark
Citrus (hard)	0.05	The CCC regional average is 0.09 Kg CO2e per Kg Fruit and consist of 40 data points.
Macadamia	0.07	The CCC regional average is 0.27 Kg CO2e per Kg Fruit and consist of 2 data points.

Packhouse Scope Breakdown

	Ton CO2e	%
Scope 1	153.92	13.67
Scope 2	169.19	15.03
Scope 3	802.97	71.31
Total	1,126.08	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

Packhouse - Commodity View



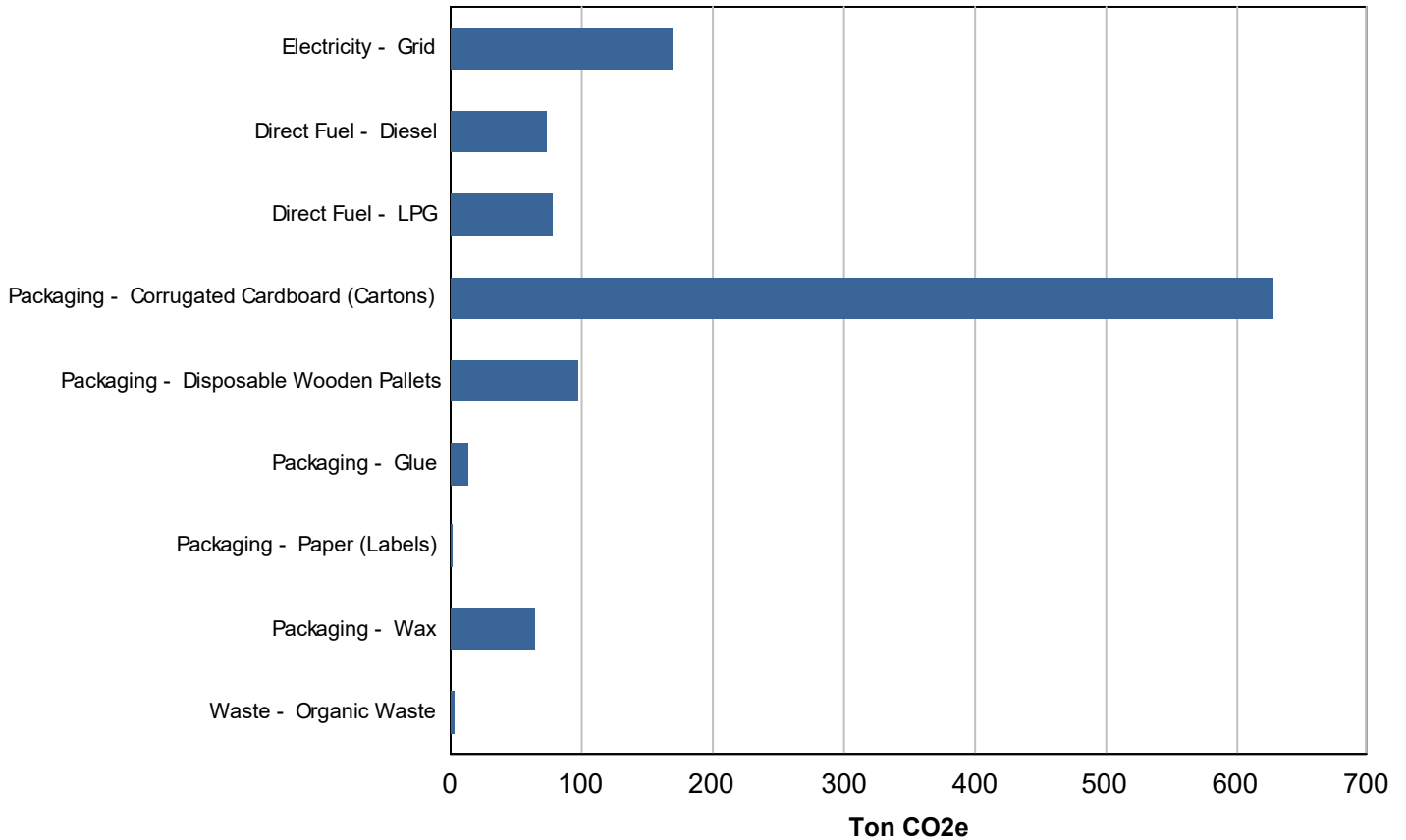
Commodity	Ton CO2e	%
Citrus (hard)	1,090.52	96.84
Macadamia	35.56	3.16
Total	1,126.08	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2023/09/11 08:03:14

Data Collection Period: Mar 2022 to Feb 2023

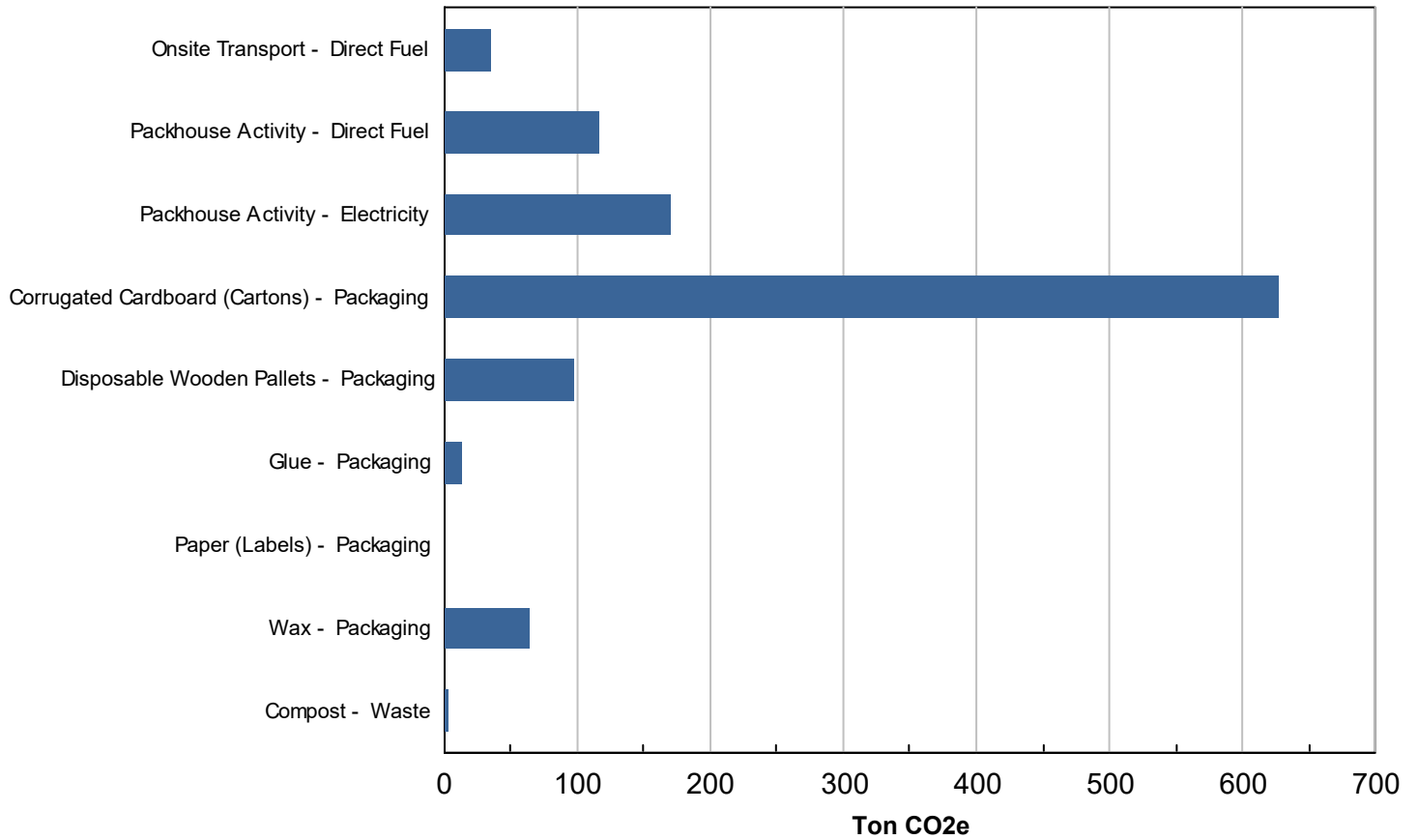
Packhouse - Emission Source Breakdown



Emission Source	Ton CO2e	%
Electricity - Grid	169.19	15.03
Direct Fuel - Diesel	73.61	6.54
Direct Fuel - LPG	77.79	6.91
Packaging - Corrugated Cardboard (Cartons)	626.83	55.66
Packaging - Disposable Wooden Pallets	97.44	8.65
Packaging - Glue	13.70	1.22
Packaging - Paper (Labels)	0.76	0.07
Packaging - Wax	64.24	5.70
Waste - Organic Waste	2.52	0.22
Total	1,126.08	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2023/09/11 08:03:14
Data Collection Period: Mar 2022 to Feb 2023

Packhouse - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Onsite Transport - Direct Fuel	34.83	3.09
Packhouse Activity - Direct Fuel	116.57	10.35
Packhouse Activity - Electricity	169.19	15.03
Corrugated Cardboard (Cartons) - Packaging	626.83	55.66
Disposable Wooden Pallets - Packaging	97.44	8.65
Glue - Packaging	13.70	1.22
Paper (Labels) - Packaging	0.76	0.07
Wax - Packaging	64.24	5.70
Compost - Waste	2.52	0.22
Total	1,126.08	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2023/09/11 08:03:14

Data Collection Period: Mar 2022 to Feb 2023

Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Packhouse Activity	169.19	15.03
Direct Fuel - Diesel - Packhouse Activity	38.78	3.44
Direct Fuel - Diesel - Onsite Transport	34.83	3.09
Direct Fuel - LPG - Packhouse Activity	77.79	6.91
Packaging - Corrugated Cardboard (Cartons) - Corrugated Cardboard (Cartons)	626.83	55.66
Packaging - Paper (Labels) - Paper (Labels)	0.76	0.07
Packaging - Wax - Wax	64.24	5.70
Packaging - Glue - Glue	13.70	1.22
Packaging - Disposable Wooden Pallets - Disposable Wooden Pallets	97.44	8.65
Waste - Organic Waste - Compost	2.52	0.22
Total	1,126.08	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2023/09/11 08:03:14

Data Collection Period: Mar 2022 to Feb 2023

Packhouse Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Citrus (hard)	Liters Waste Water per Ton Fruit	6.02	The CCC regional average is 3901.13 Liters Waste Water per Ton Fruit and consist of 38 data points.
Citrus (hard)	Liters Water per Ton Fruit	6.02	The CCC regional average is 11286.68 Liters Water per Ton Fruit and consist of 38 data points.
Citrus (hard)	kWh Packhouse Activity Electricity per Ton Fruit	4.31	The CCC regional average is 14.47 kWh Packhouse Activity Electricity per Ton Fruit and consist of 38 data points.
Citrus (hard)	Kg Corrugated Cardboard per Ton of Fruit packed	42.02	The CCC regional average is 47.38 Kg Corrugated Cardboard per Ton of Fruit packed and consist of 38 data points.

Macadamia	kWh Packhouse Activity Electricity per Ton Fruit	62.02	The CCC regional average is 205.53 kWh Packhouse Activity Electricity per Ton Fruit and consist of 2 data points.
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Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2023/09/11 08:03:14

Data Collection Period: Mar 2022 to Feb 2023