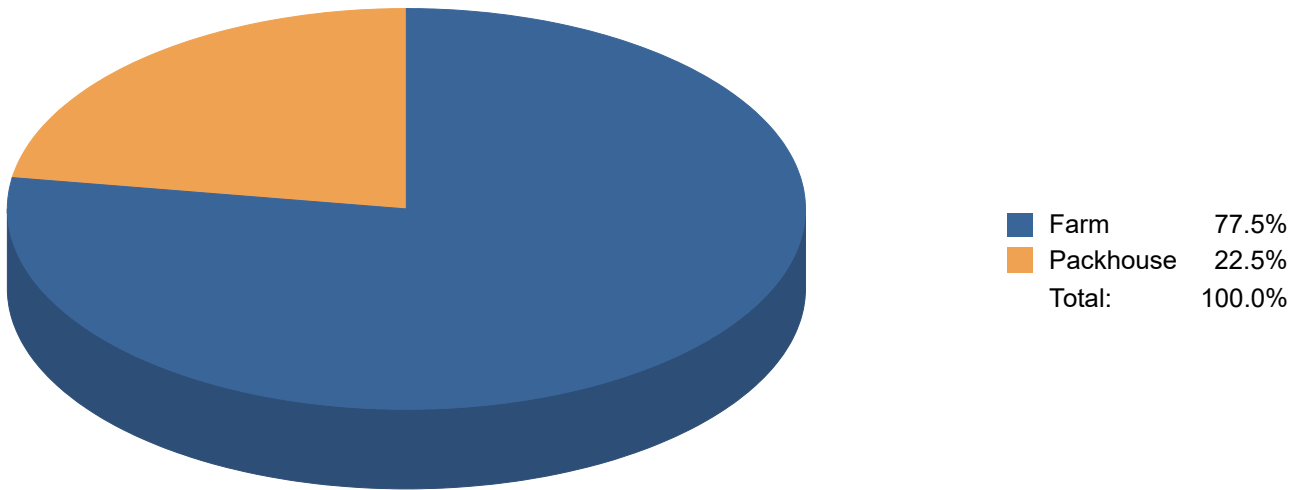


Carbon Calculator Results

Business Name: Groep 91 Uitvoer (Pty) Ltd
Creation Date: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022
Report Grade: B1 - This dataset has been checked by CCC and is part of the benchmark.

Business Unit - Boundary View

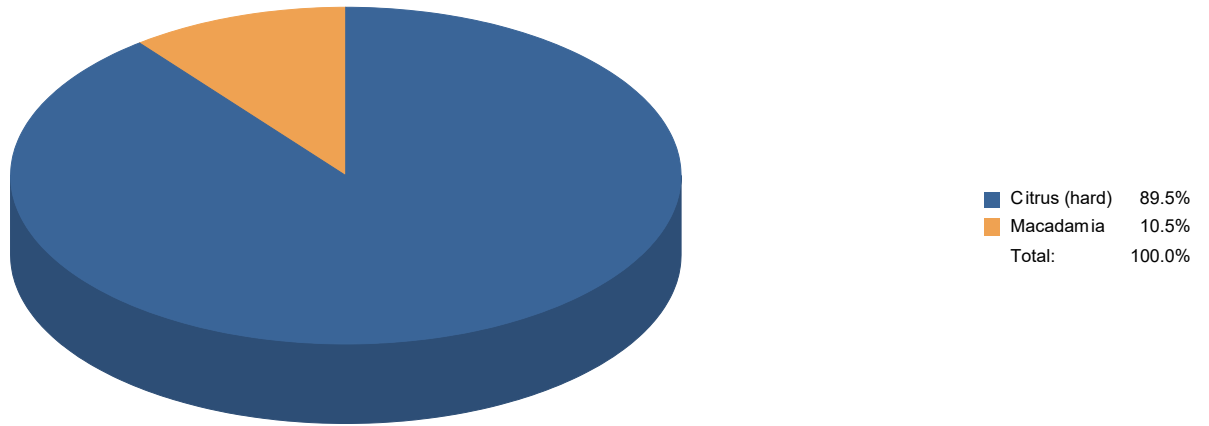


Boundary	Ton CO2e	%
Farm	4,057.84	77.47
Packhouse	1,180.25	22.53
Total	5,238.10	100.00

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: 2022/08/31 06:57:56
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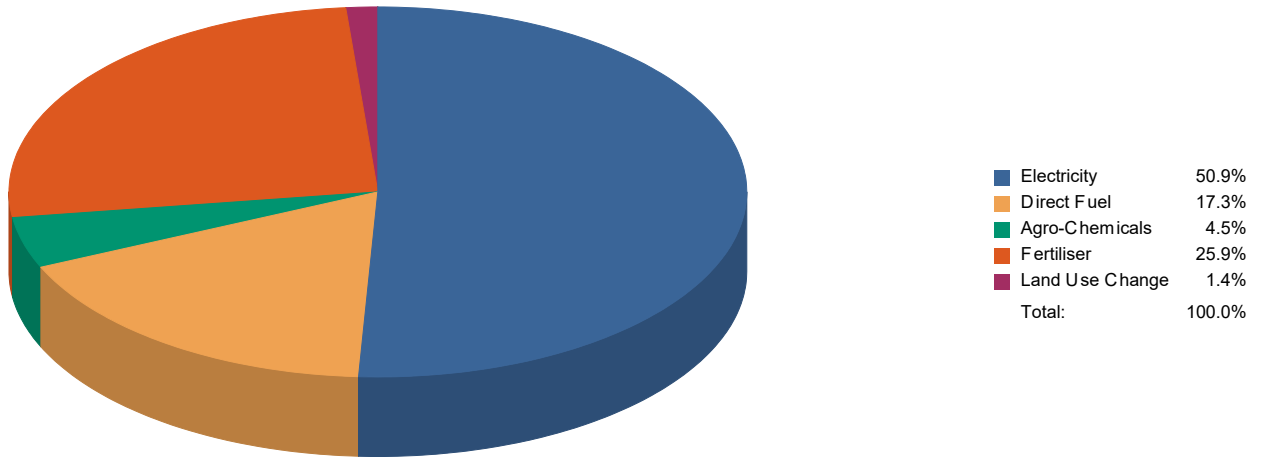
Business Unit - Commodity View



Commodity	Ton CO2e	%
Citrus (hard)	4,689.97	89.54
Macadamia	548.12	10.46
Total	5,238.10	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

Farm - Emission Source View



Emission Source	Ton CO2e	%
Electricity	2,064.48	50.88
Direct Fuel	702.68	17.32
Agro-Chemicals	183.13	4.51
Fertiliser	1,052.36	25.93
Land Use Change	55.20	1.36
Total	4,057.84	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2022/08/31 06:57:56

Data Collection Period: Mar 2021 to Feb 2022

Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Citrus (hard)	0.11	The CCC regional average is 0.11 Kg CO2e per Kg Fruit and consist of 31 data points.
Macadamia	1.47	The CCC regional average is 2.21 Kg CO2e per Kg Fruit and consist of 4 data points.

Farm Hectare Breakdown

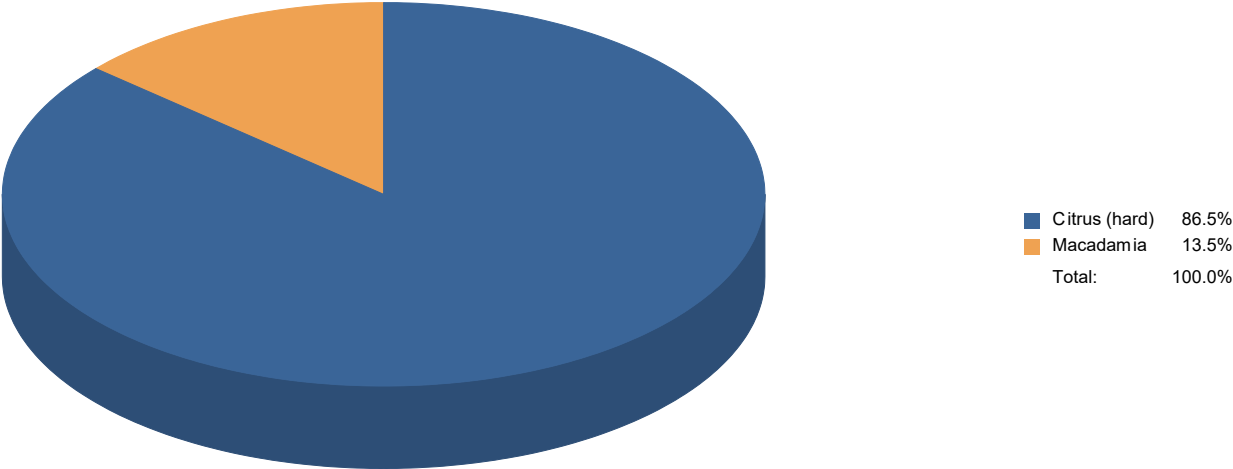
Commodity	Ton CO2e per Bearing Ha
Citrus (hard)	6.02
Macadamia	4.69

Farm Scope Breakdown

	Ton CO2e	%
Scope 1	757.88	18.68
Scope 2	2,064.48	50.88
Scope 3	1,235.48	30.45
Total	4,057.84	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
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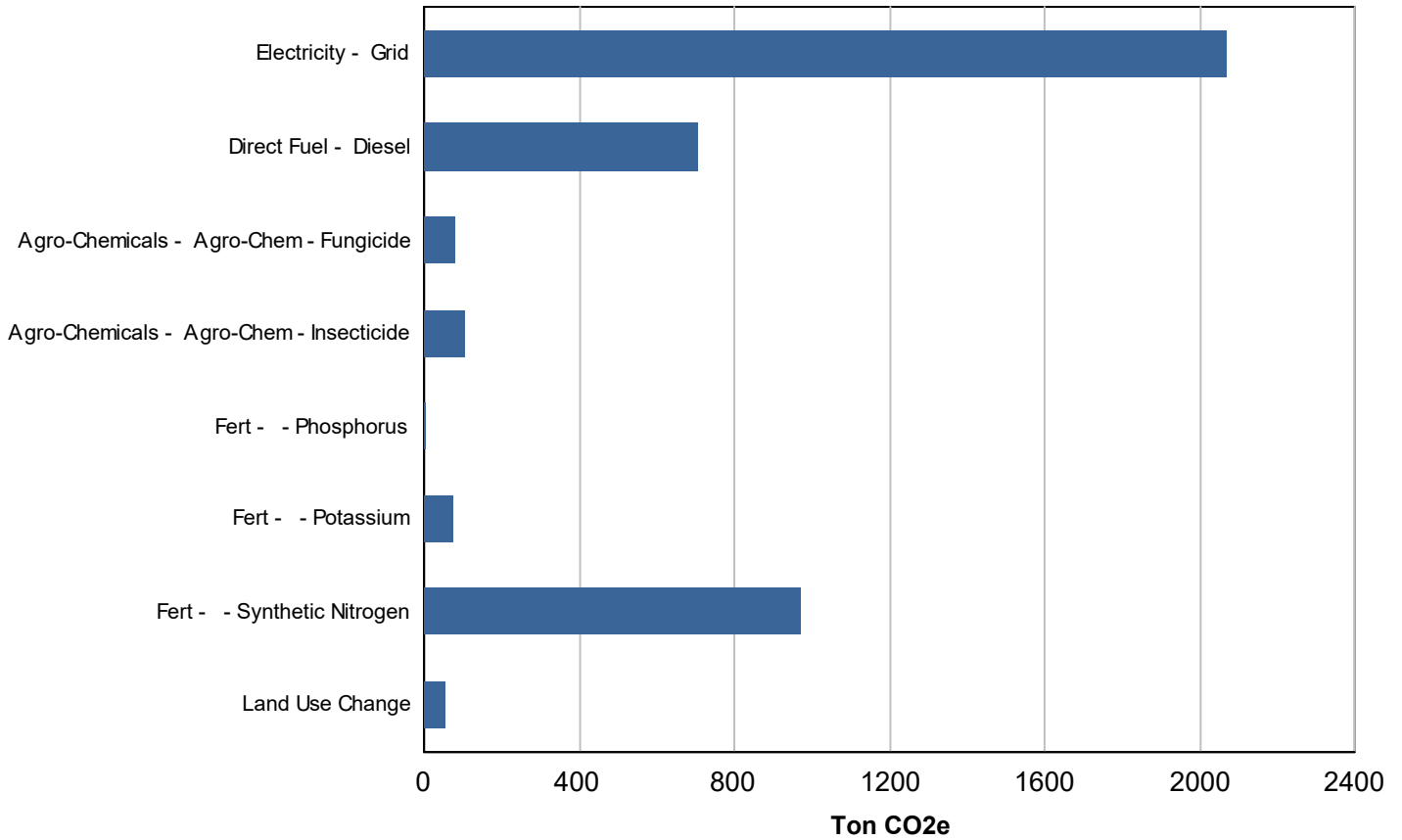
Farm - Commodity View



Commodity	Ton CO2e	%
Citrus (hard)	3,509.72	86.49
Macadamia	548.12	13.51
Total	4,057.84	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

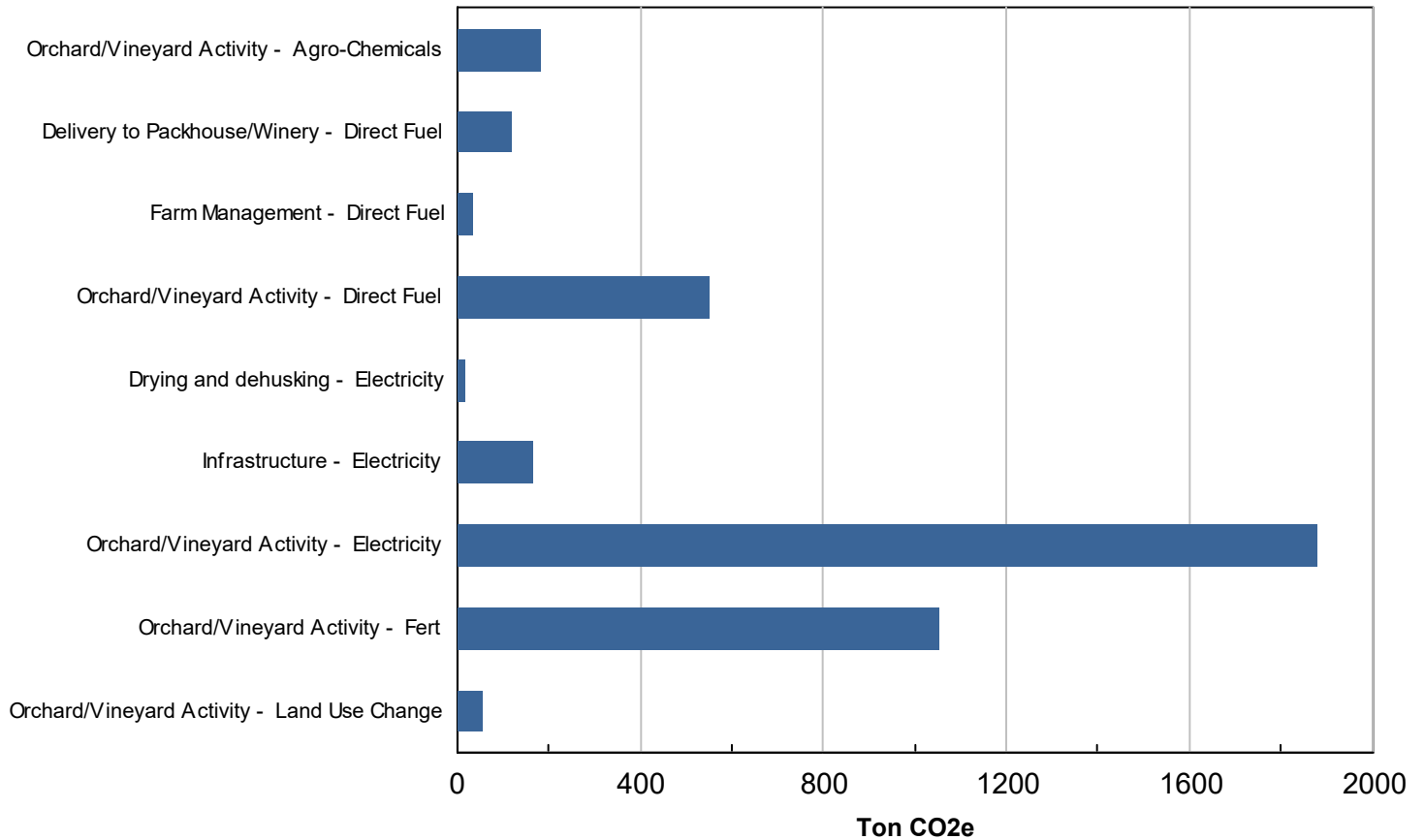
Farm - Emission Source Breakdown



Emission Source	Ton CO2e	%
Electricity - Grid	2,064.48	50.88
Direct Fuel - Diesel	702.68	17.32
Agro-Chemicals - Agro-Chem - Fungicide	79.42	1.96
Agro-Chemicals - Agro-Chem - Insecticide	103.71	2.56
Fert - - Phosphorus	5.48	0.13
Fert - - Potassium	75.52	1.86
Fert - - Synthetic Nitrogen	971.36	23.94
Land Use Change	55.20	1.36
Total	4,057.84	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

Farm - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Orchard/Vineyard Activity - Agro-Chemicals	183.13	4.51
Delivery to Packhouse/Winery - Direct Fuel	120.02	2.96
Farm Management - Direct Fuel	32.67	0.81
Orchard/Vineyard Activity - Direct Fuel	549.99	13.55
Drying and dehusking - Electricity	18.83	0.46
Infrastructure - Electricity	164.52	4.05
Orchard/Vineyard Activity - Electricity	1,881.14	46.36
Orchard/Vineyard Activity - Fert	1,052.36	25.93
Orchard/Vineyard Activity - Land Use Change	55.20	1.36
Total	4,057.84	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	1,520.14	37.46
Electricity - Grid - Orchard/Vineyard Activity - NBO	360.99	8.90
Electricity - Grid - Infrastructure	164.52	4.05
Electricity - Grid - Drying and dehusking - BO	18.83	0.46
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	440.34	10.85
Direct Fuel - Diesel - Orchard/Vineyard Activity - NBO	109.65	2.70
Direct Fuel - Diesel - Delivery to Packhouse/Winery	120.02	2.96
Direct Fuel - Diesel - Farm Management	32.67	0.81
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	786.81	19.39
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - NBO	184.55	4.55
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	4.44	0.11
Fert - - Phosphorus - Orchard/Vineyard Activity - NBO	1.04	0.03
Fert - - Potassium - Orchard/Vineyard Activity - BO	61.17	1.51
Fert - - Potassium - Orchard/Vineyard Activity - NBO	14.35	0.35
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	79.42	1.96
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	84.01	2.07
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - NBO	19.70	0.49
Land Use Change - Grass land - Orchard/Vineyard Activity	55.20	1.36
Total	4,057.84	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Citrus (hard)	kL Water per Ton Fruit	132.06	The CCC regional average is 185.11 kL Water per Ton Fruit and consist of 30 data points.
Citrus (hard)	kL Water per Bearing Ha	7,500.00	N/A
Citrus (hard)	kL Water per Non-Bearing Ha	3,000.00	N/A
Citrus (hard)	kWh Orchard / Vineyard Electricity per Ton Fruit	50.65	The CCC regional average is 52.39 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 30 data points.
Citrus (hard)	kWh Orchard / Vineyard Electricity per Bearing Ha	2,876.31	The CCC regional average is 2280.34 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 30 data points.
Citrus (hard)	Liters Orchard / Vineyard Diesel per Ton Fruit	4.25	The CCC regional average is 3.79 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 30 data points.
Citrus (hard)	Liters Orchard / Vineyard Diesel per Bearing Ha	241.29	The CCC regional average is 150.58 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 30 data points.
Citrus (hard)	Kg Pure N per Ton Fruit	2.03	The CCC regional average is 2.18 Kg Pure N per Ton Fruit and consist of 30 data points.
Citrus (hard)	Kg Pure N per Bearing Ha	115.13	The CCC regional average is 89.70 Kg Pure N per Bearing Ha and consist of 30 data points.

Commodity	Consumption Measure	Result	Benchmark
Macadamia	kL Water per Ton Fruit	2,078.17	The CCC regional average is 564.48 kL Water per Ton Fruit and consist of 4 data points.
Macadamia	kL Water per Bearing Ha	6,700.00	N/A
Macadamia	kL Water per Non-Bearing Ha	3,000.00	N/A
Macadamia	kWh Orchard / Vineyard Electricity per Ton Fruit	802.91	The CCC regional average is 361.80 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 4 data points.
Macadamia	kWh Orchard / Vineyard Electricity per Bearing Ha	2,588.58	The CCC regional average is 592.01 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 4 data points.
Macadamia	Liters Orchard / Vineyard Diesel per Ton Fruit	48.81	The CCC regional average is 117.37 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 4 data points.
Macadamia	Liters Orchard / Vineyard Diesel per Bearing Ha	157.36	The CCC regional average is 140.51 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 4 data points.
Macadamia	Kg Pure N per Ton Fruit	31.70	The CCC regional average is 33.54 Kg Pure N per Ton Fruit and consist of 4 data points.
Macadamia	Kg Pure N per Bearing Ha	102.20	The CCC regional average is 71.85 Kg Pure N per Bearing Ha and consist of 4 data points.

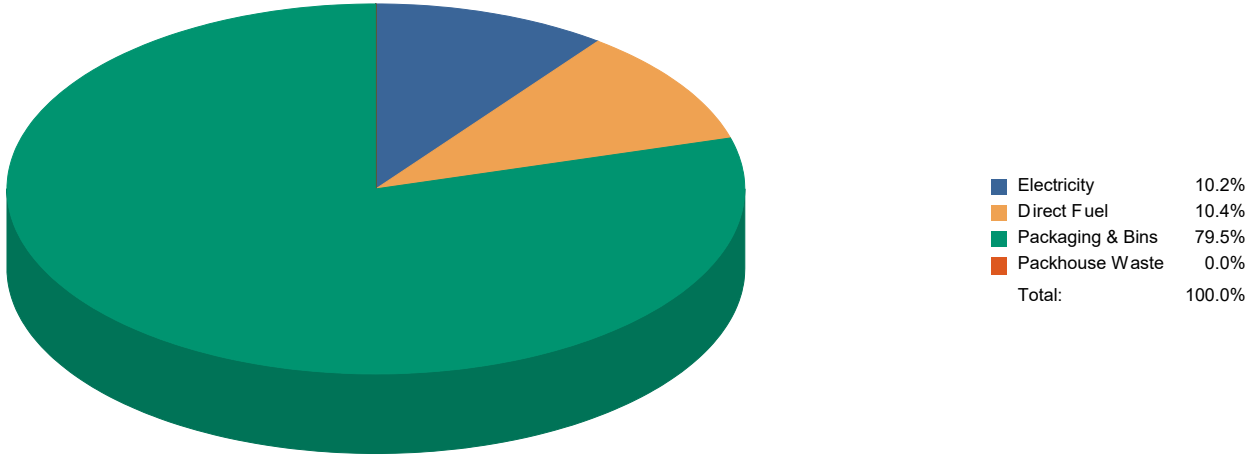
Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2022/08/31 06:57:56

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Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

Packhouse - Emission Source View



Emission Source	Ton CO2e	%
Electricity	120.05	10.17
Direct Fuel	122.27	10.36
Packaging & Bins	937.81	79.46
Packhouse Waste	0.13	0.01
Total	1,180.25	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2022/08/31 06:57:56

Data Collection Period: Mar 2021 to Feb 2022

Packhouse Commodity Benchmark

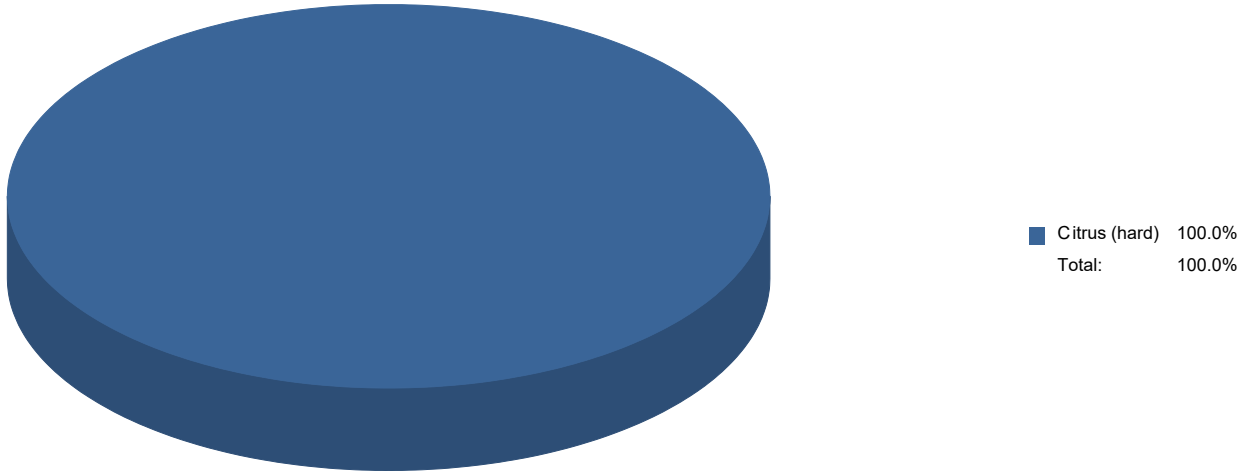
Commodity	Kg CO2e per Kg Fruit	Benchmark
Citrus (hard)	0.06	The CCC regional average is 0.09 Kg CO2e per Kg Fruit and consist of 29 data points.

Packhouse Scope Breakdown

	Ton CO2e	%
Scope 1	122.27	10.36
Scope 2	120.05	10.17
Scope 3	937.94	79.47
Total	1,180.25	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

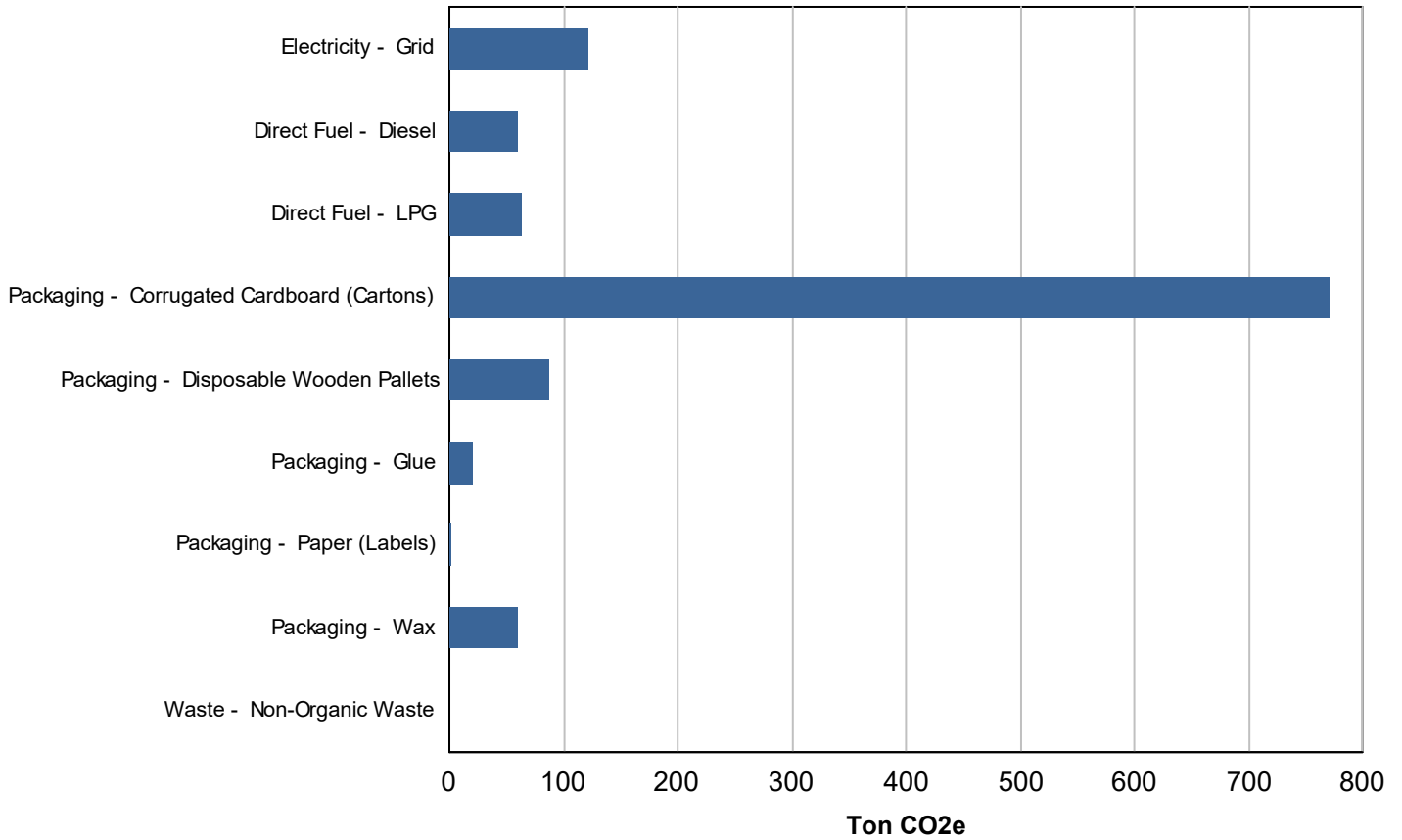
Packhouse - Commodity View



Commodity	Ton CO2e	%
Citrus (hard)	1,180.25	100.00
Total	1,180.25	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

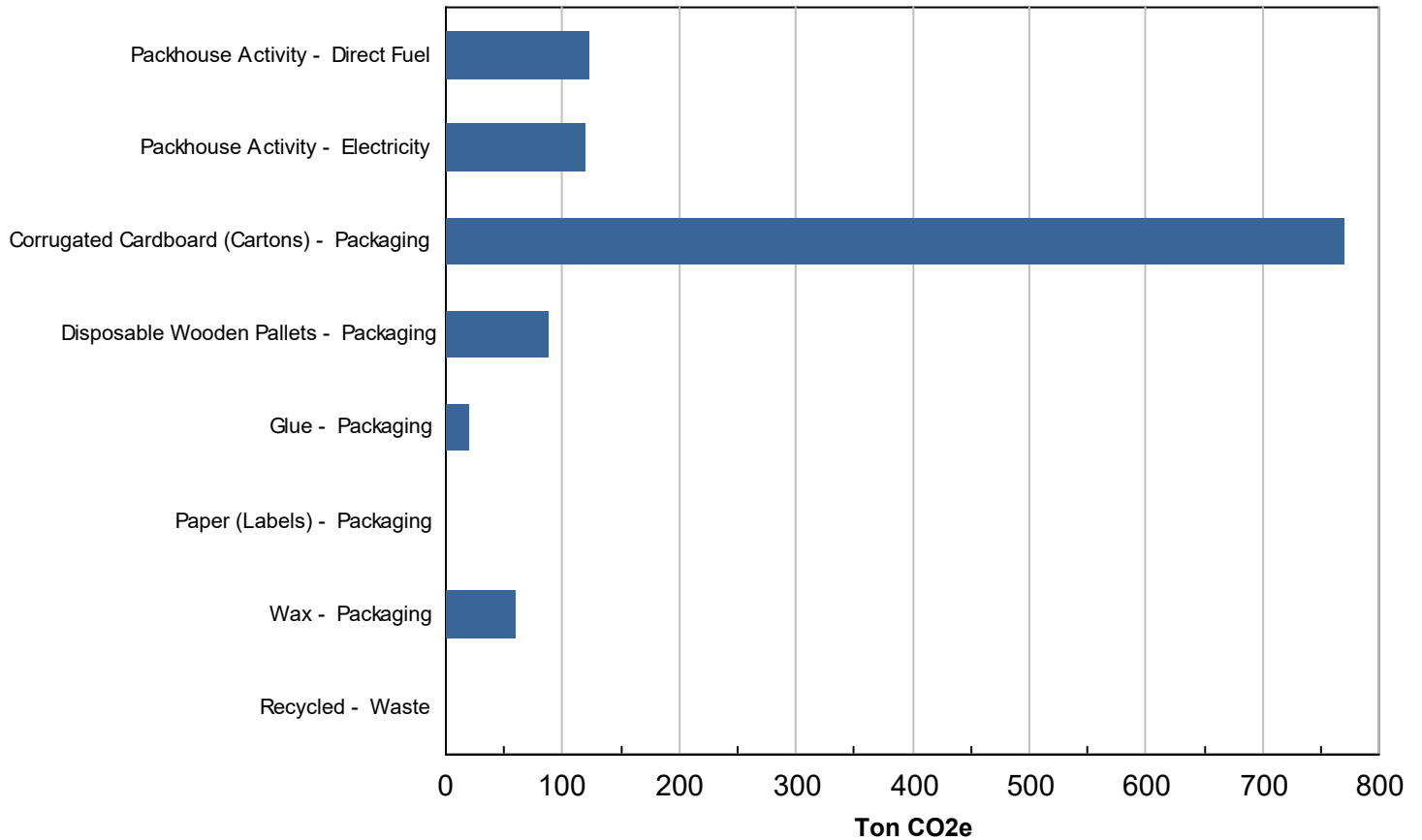
Packhouse - Emission Source Breakdown



Emission Source	Ton CO2e	%
Electricity - Grid	120.05	10.17
Direct Fuel - Diesel	59.04	5.00
Direct Fuel - LPG	63.23	5.36
Packaging - Corrugated Cardboard (Cartons)	769.87	65.23
Packaging - Disposable Wooden Pallets	87.25	7.39
Packaging - Glue	20.30	1.72
Packaging - Paper (Labels)	0.86	0.07
Packaging - Wax	59.53	5.04
Waste - Non-Organic Waste	0.13	0.01
Total	1,180.25	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

Packhouse - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Packhouse Activity - Direct Fuel	122.27	10.36
Packhouse Activity - Electricity	120.05	10.17
Corrugated Cardboard (Cartons) - Packaging	769.87	65.23
Disposable Wooden Pallets - Packaging	87.25	7.39
Glue - Packaging	20.30	1.72
Paper (Labels) - Packaging	0.86	0.07
Wax - Packaging	59.53	5.04
Recycled - Waste	0.13	0.01
Total	1,180.25	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2022/08/31 06:57:56

Data Collection Period: Mar 2021 to Feb 2022

Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Packhouse Activity	120.05	10.17
Direct Fuel - Diesel - Packhouse Activity	59.04	5.00
Direct Fuel - LPG - Packhouse Activity	63.23	5.36
Packaging - Corrugated Cardboard (Cartons) - Corrugated Cardboard (Cartons)	769.87	65.23
Packaging - Paper (Labels) - Paper (Labels)	0.86	0.07
Packaging - Wax - Wax	59.53	5.04
Packaging - Glue - Glue	20.30	1.72
Packaging - Disposable Wooden Pallets - Disposable Wooden Pallets	87.25	7.39
Waste - Non-Organic Waste - Recycled	0.13	0.01
Total	1,180.25	100.00

Business Name: Groep 91 Uitvoer (Pty) Ltd
Dataset: 2022/08/31 06:57:56
Data Collection Period: Mar 2021 to Feb 2022

Packhouse Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Citrus (hard)	Liters Waste Water per Ton Fruit	2,379.64	The CCC regional average is 183.37 Liters Waste Water per Ton Fruit and consist of 27 data points.
Citrus (hard)	Liters Water per Ton Fruit	2,379.64	The CCC regional average is 898.12 Liters Water per Ton Fruit and consist of 27 data points.
Citrus (hard)	kWh Packhouse Activity Electricity per Ton Fruit	4.51	The CCC regional average is 14.48 kWh Packhouse Activity Electricity per Ton Fruit and consist of 27 data points.
Citrus (hard)	Kg Corrugated Cardboard per Ton of Fruit packed	52.73	The CCC regional average is 46.43 Kg Corrugated Cardboard per Ton of Fruit packed and consist of 27 data points.

Business Name: Groep 91 Uitvoer (Pty) Ltd

Dataset: 2022/08/31 06:57:56

Data Collection Period: Mar 2021 to Feb 2022