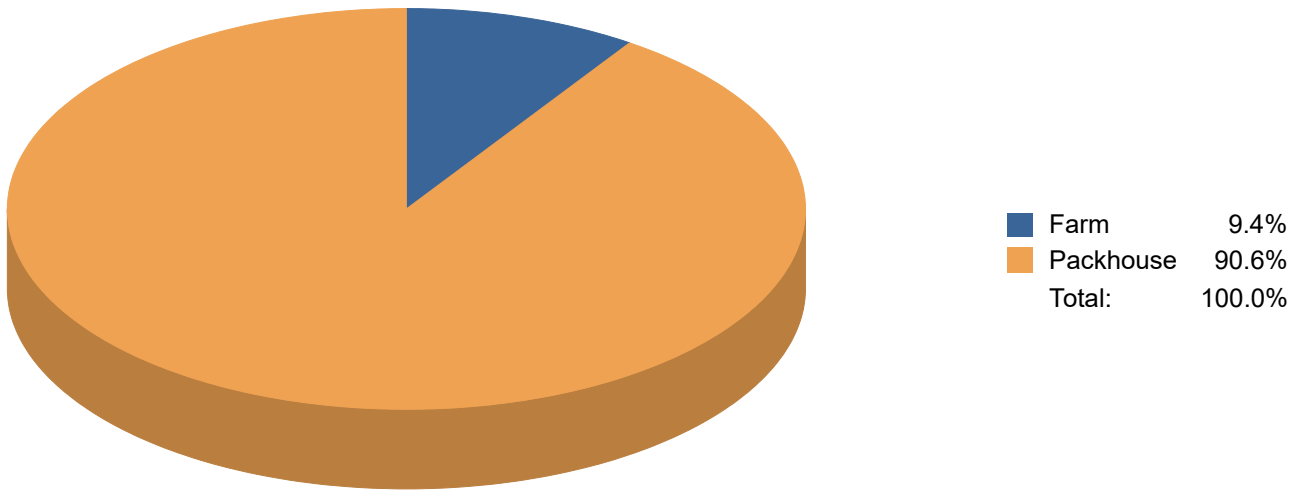




Carbon Calculator Results

Business Name: Hadeco Little Falls
Country Name: South Africa
Creation Date: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024
Report Grade: B1 - This dataset has been checked by CCC and is part of the benchmark.

Business Unit - Boundary View

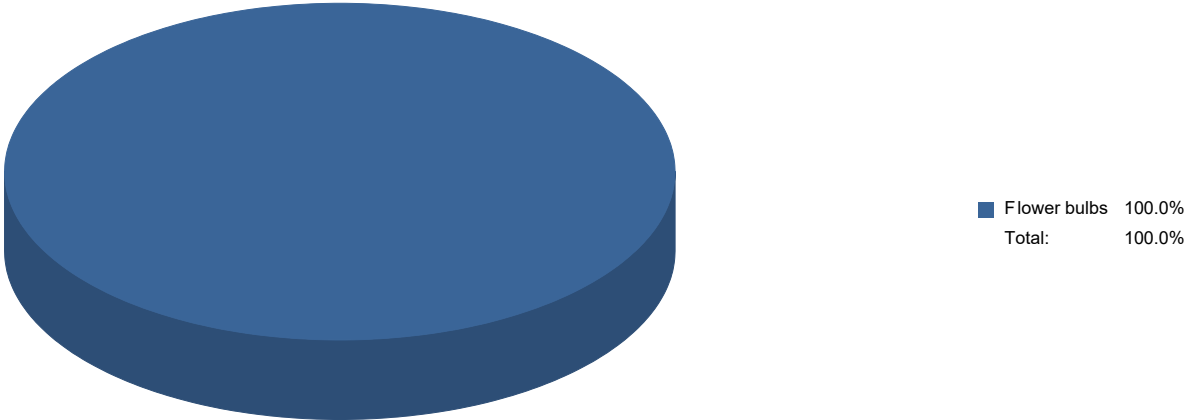


Boundary	Ton CO2e	%
Farm	193.71	9.36
Packhouse	1,876.12	90.64
Total	2,069.83	100.00

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

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

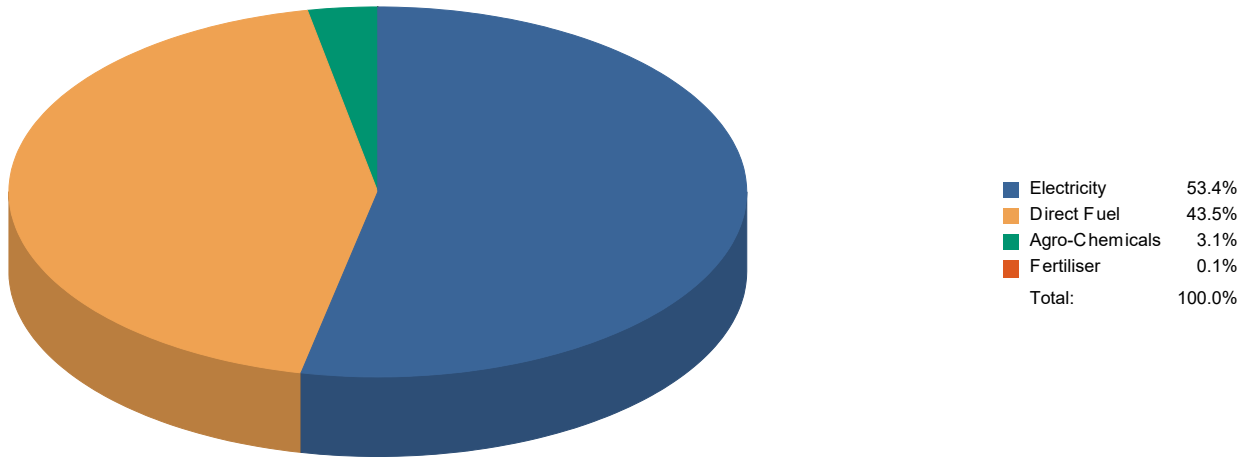
Business Unit - Commodity View



Commodity	Ton CO2e	%
Flower bulbs	2,069.83	100.00
Total	2,069.83	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Farm - Emission Source View



Emission Source	Ton CO2e	%
Electricity	103.44	53.40
Direct Fuel	84.19	43.46
Agro-Chemicals	5.91	3.05
Fertiliser	0.17	0.09
Total	193.71	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Flower bulbs	12.05	N/A

Farm Hectare Breakdown

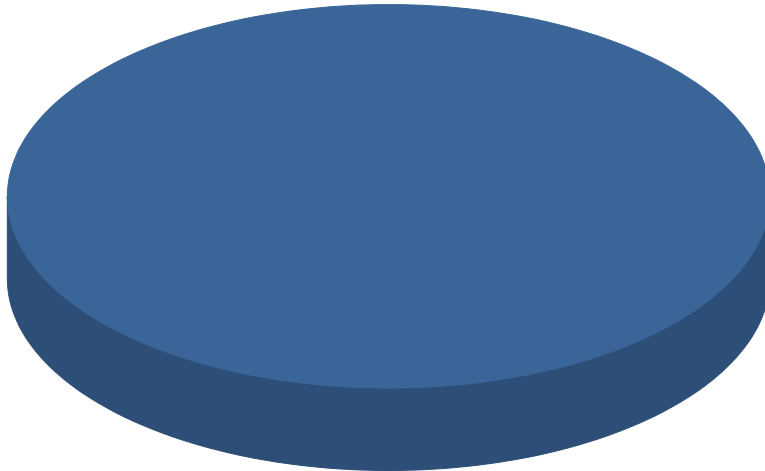
Commodity	Ton CO2e per Bearing Ha
Flower bulbs	302.45

Farm Scope Breakdown

	Ton CO2e	%
Scope 1	92.49	47.75
Scope 2	95.23	49.16
Scope 3	6.00	3.10
Total	193.71	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Farm - Commodity View

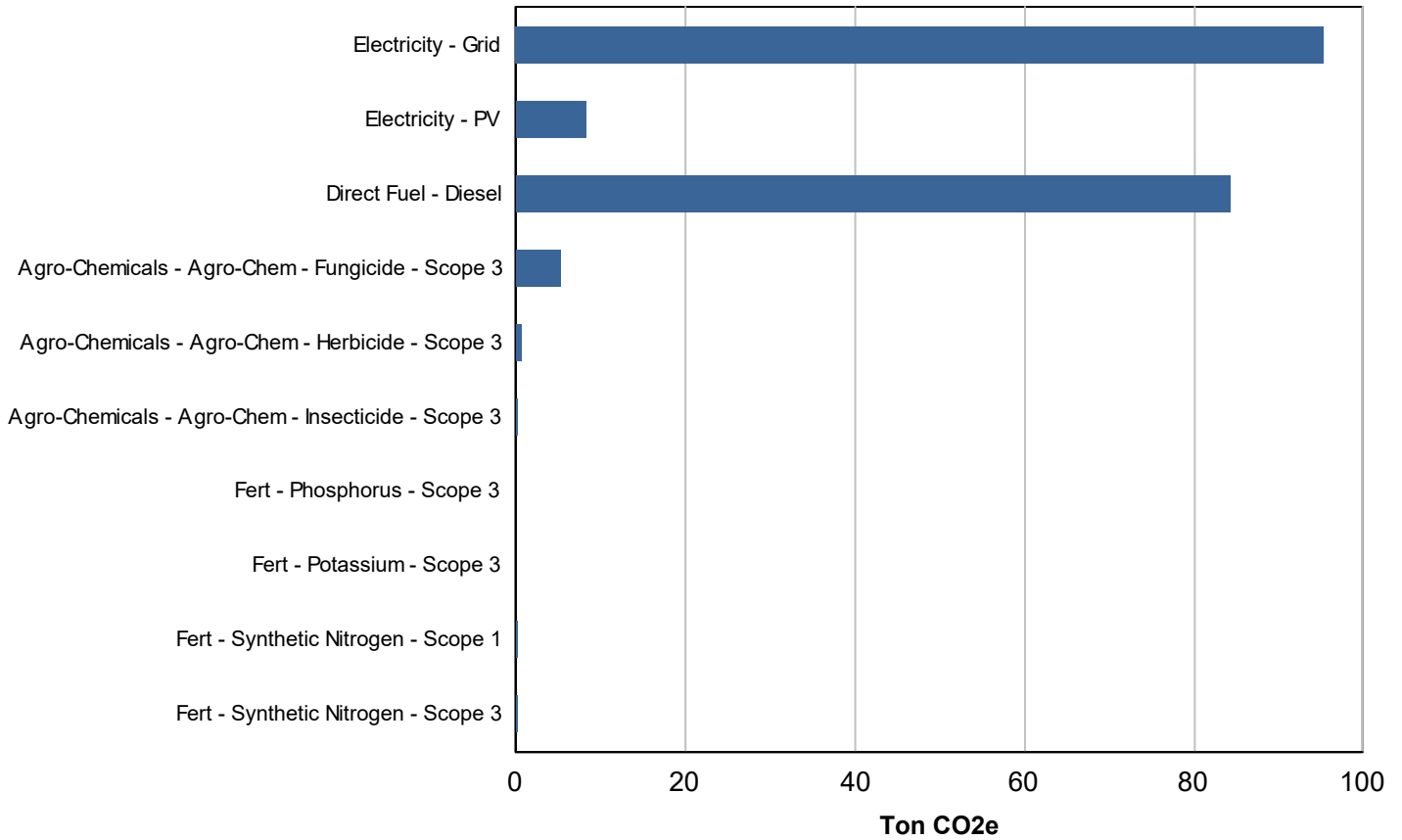


■ Flower bulbs 100.0%
Total: 100.0%

Commodity	Ton CO2e	%
Flower bulbs	193.71	100.00
Total	193.71	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Farm - Emission Source Breakdown



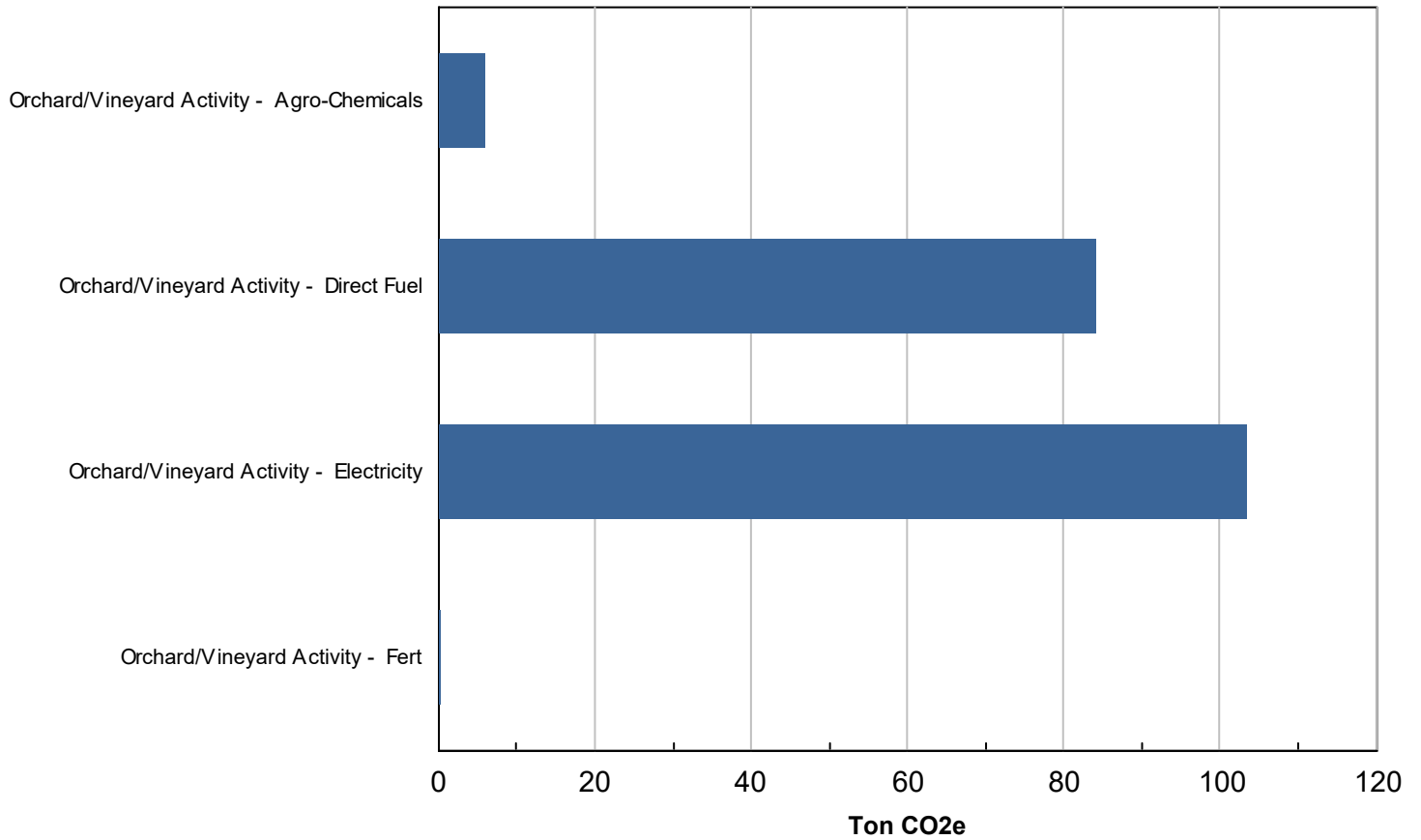
Emission Source	Ton CO2e	%
Electricity - Grid	95.23	49.16
Electricity - PV	8.21	4.24
Direct Fuel - Diesel	84.19	43.46
Agro-Chemicals - Agro-Chem - Fungicide - Scope 3	5.14	2.65
Agro-Chemicals - Agro-Chem - Herbicide - Scope 3	0.71	0.37
Agro-Chemicals - Agro-Chem - Insecticide - Scope 3	0.07	0.03
Fert - Phosphorus - Scope 3	0.00	0.00
Fert - Potassium - Scope 3	0.02	0.01
Fert - Synthetic Nitrogen - Scope 1	0.09	0.05
Fert - Synthetic Nitrogen - Scope 3	0.06	0.03

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Total	193.71	100.00
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Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Farm - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Orchard/Vineyard Activity - Agro-Chemicals	5.91	3.05
Orchard/Vineyard Activity - Direct Fuel	84.19	43.46
Orchard/Vineyard Activity - Electricity	103.44	53.40
Orchard/Vineyard Activity - Fert	0.17	0.09
Total	193.71	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	95.23	49.16
Electricity - PV - Orchard/Vineyard Activity - BO	8.21	4.24
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	84.19	43.46
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	0.15	0.08
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	0.00	0.00
Fert - - Potassium - Orchard/Vineyard Activity - BO	0.02	0.01
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	5.14	2.65
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	0.07	0.03
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	0.71	0.37
Total	193.71	100.00

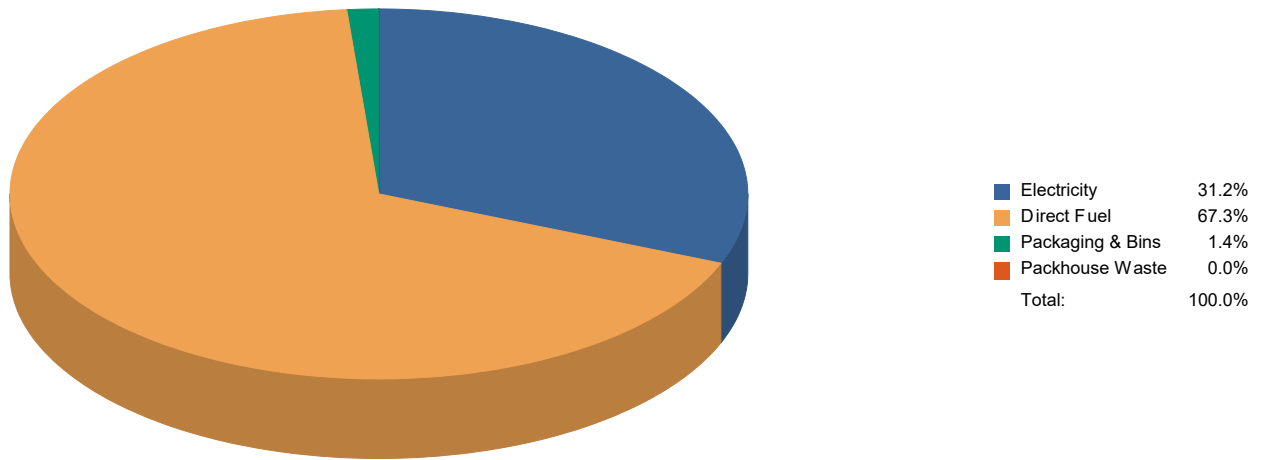
Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Flower bulbs	kL Water per Ton Fruit	7.26	N/A
Flower bulbs	kL Water per Bearing Ha	181.53	N/A
Flower bulbs	kWh Orchard / Vineyard Electricity per Ton Fruit	9,035.63	N/A
Flower bulbs	kWh Orchard / Vineyard Electricity per Bearing Ha	225,890.63	N/A
Flower bulbs	Liters Orchard / Vineyard Diesel per Ton Fruit	1,587.82	N/A
Flower bulbs	Liters Orchard / Vineyard Diesel per Bearing Ha	39,695.39	N/A
Flower bulbs	Kg Pure N per Ton Fruit	0.66	N/A
Flower bulbs	Kg Pure N per Bearing Ha	16.45	N/A

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Packhouse - Emission Source View



Emission Source	Ton CO2e	%
Electricity	586.14	31.24
Direct Fuel	1,262.89	67.31
Packaging & Bins	26.92	1.43
Packhouse Waste	0.18	0.01
Total	1,876.12	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Packhouse Commodity Benchmark

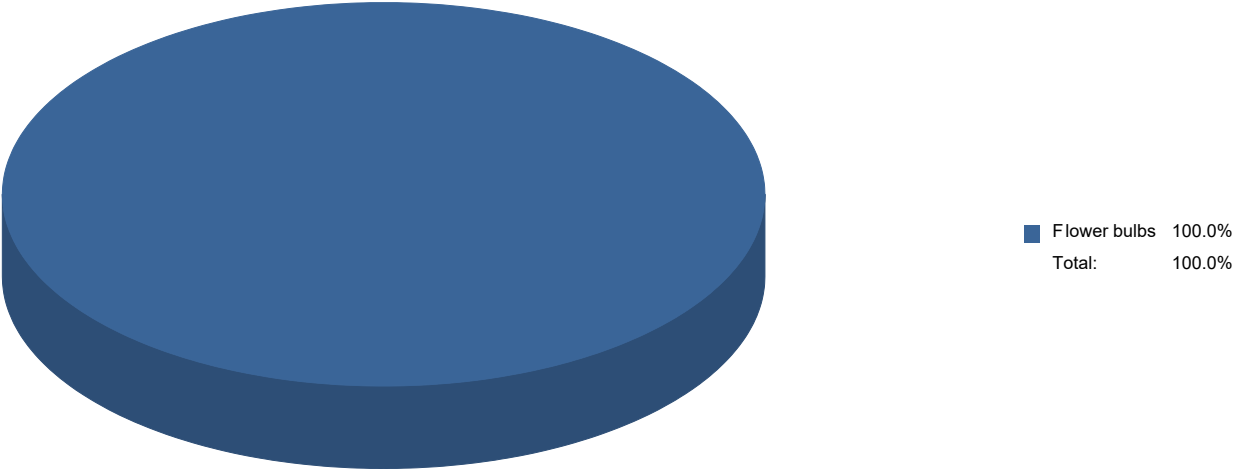
Commodity	Kg CO2e per Kg Fruit	Benchmark
Flower bulbs	125.11	N/A

Packhouse Scope Breakdown

	Ton CO2e	%
Scope 1	1,309.41	69.79
Scope 2	539.62	28.76
Scope 3	27.09	1.44
Total	1,876.12	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

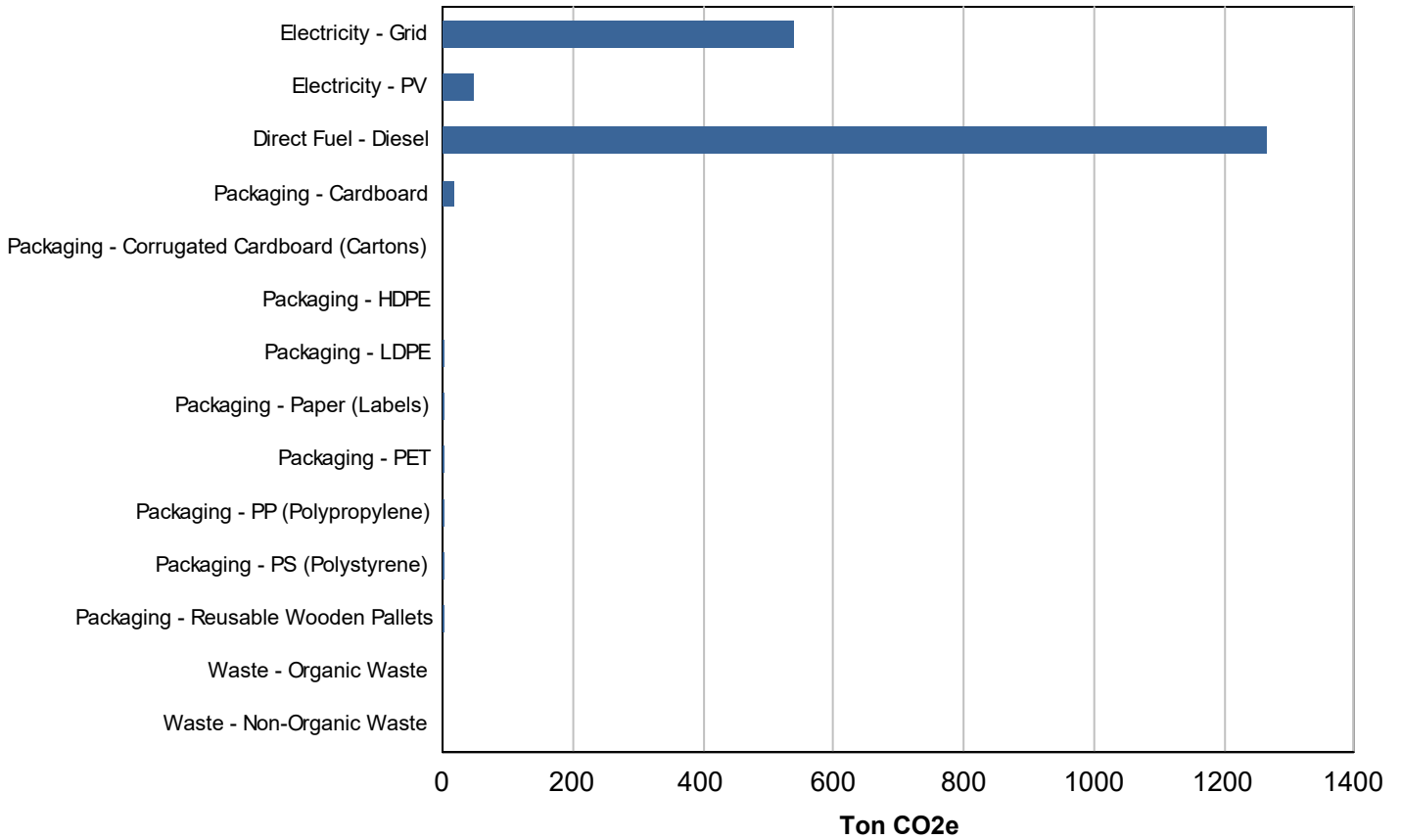
Packhouse - Commodity View



Commodity	Ton CO2e	%
Flower bulbs	1,876.12	100.00
Total	1,876.12	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Packhouse - Emission Source Breakdown



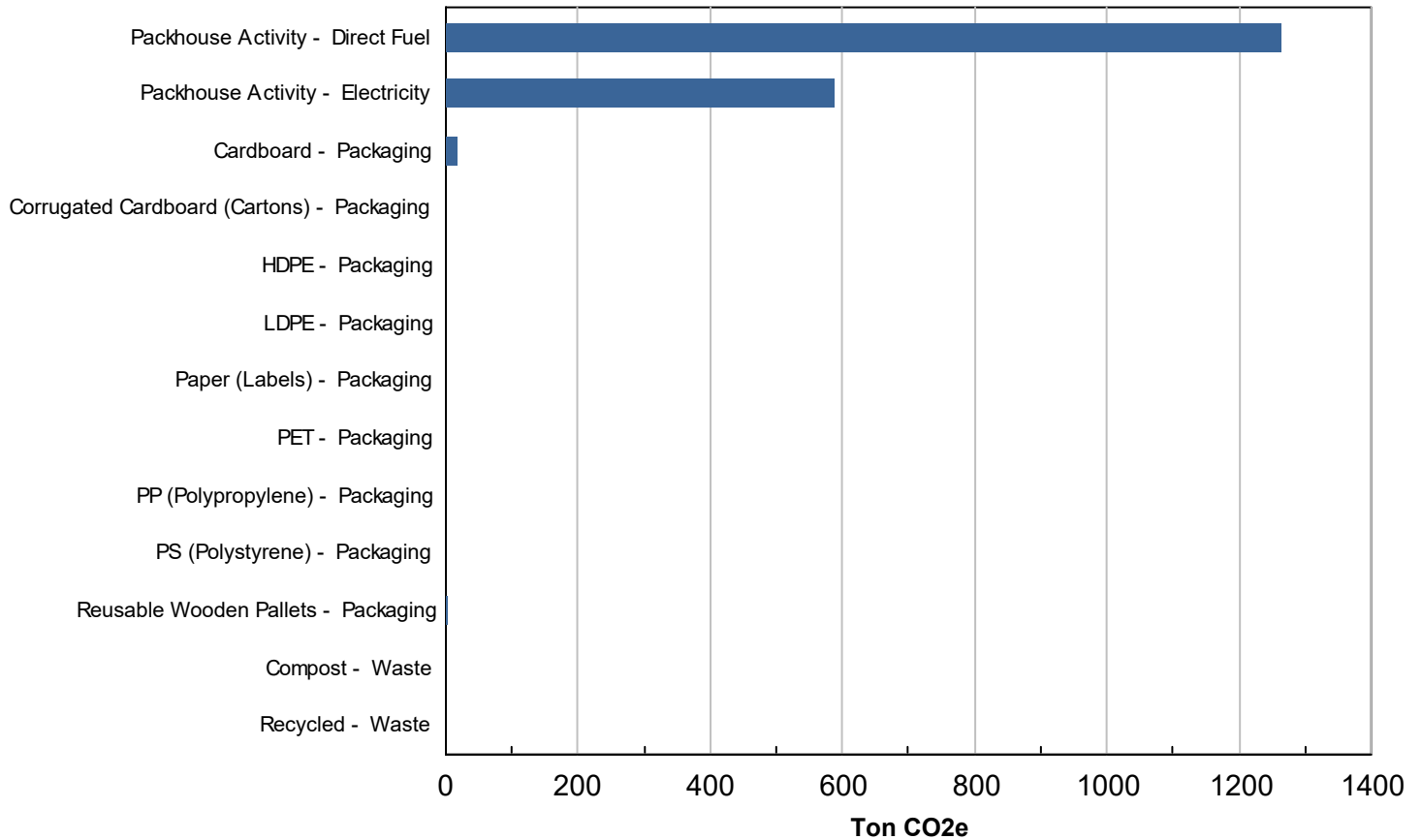
Emission Source	Ton CO2e	%
Electricity - Grid	539.62	28.76
Electricity - PV	46.52	2.48
Direct Fuel - Diesel	1,262.89	67.31
Packaging - Cardboard	17.31	0.92
Packaging - Corrugated Cardboard (Cartons)	0.46	0.02
Packaging - HDPE	0.15	0.01
Packaging - LDPE	1.47	0.08
Packaging - Paper (Labels)	1.11	0.06
Packaging - PET	0.81	0.04
Packaging - PP (Polypropylene)	1.25	0.07
Packaging - PS (Polystyrene)	0.91	0.05
Packaging - Reusable Wooden Pallets	3.44	0.18

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Waste - Organic Waste	0.00	0.00
Waste - Non-Organic Waste	0.17	0.01
Total	1,876.12	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Packhouse - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Packhouse Activity - Direct Fuel	1,262.89	67.31
Packhouse Activity - Electricity	586.14	31.24
Cardboard - Packaging	17.31	0.92
Corrugated Cardboard (Cartons) - Packaging	0.46	0.02
HDPE - Packaging	0.15	0.01
LDPE - Packaging	1.47	0.08
Paper (Labels) - Packaging	1.11	0.06
PET - Packaging	0.81	0.04
PP (Polypropylene) - Packaging	1.25	0.07
PS (Polystyrene) - Packaging	0.91	0.05
Reusable Wooden Pallets - Packaging	3.44	0.18
Compost - Waste	0.00	0.00
Recycled - Waste	0.17	0.01
Total	1,876.12	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Packhouse Activity	539.62	28.76
Electricity - PV - Packhouse Activity	46.52	2.48
Direct Fuel - Diesel - Packhouse Activity	1,262.89	67.31
Packaging - Cardboard - Cardboard	17.31	0.92
Packaging - Corrugated Cardboard (Cartons) - Corrugated Cardboard (Cartons)	0.46	0.02
Packaging - Paper (Labels) - Paper (Labels)	1.11	0.06
Packaging - PS (Polystyrene) - PS (Polystyrene)	0.91	0.05
Packaging - PP (Polypropylene) - PP (Polypropylene)	1.25	0.07
Packaging - PET - PET	0.81	0.04
Packaging - LDPE - LDPE	1.47	0.08
Packaging - HDPE - HDPE	0.15	0.01
Packaging - Reusable Wooden Pallets - Reusable Wooden Pallets	3.44	0.18
Waste - Organic Waste - Compost	0.00	0.00
Waste - Non-Organic Waste - Recycled	0.17	0.01
Total	1,876.12	100.00

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024

Packhouse Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Flower bulbs	Liters Waste Water per Ton Fruit	6,967,450.00	N/A
Flower bulbs	Liters Water per Ton Fruit	8,197,000.00	N/A
Flower bulbs	kWh Packhouse Activity Electricity per Ton Fruit	54,615.33	N/A
Flower bulbs	Kg Corrugated Cardboard per Ton of Fruit packed	38.04	N/A

Business Name: Hadeco Little Falls
Dataset: 2024/03/19 08:46:26
Data Collection Period: Mar 2023 to Feb 2024