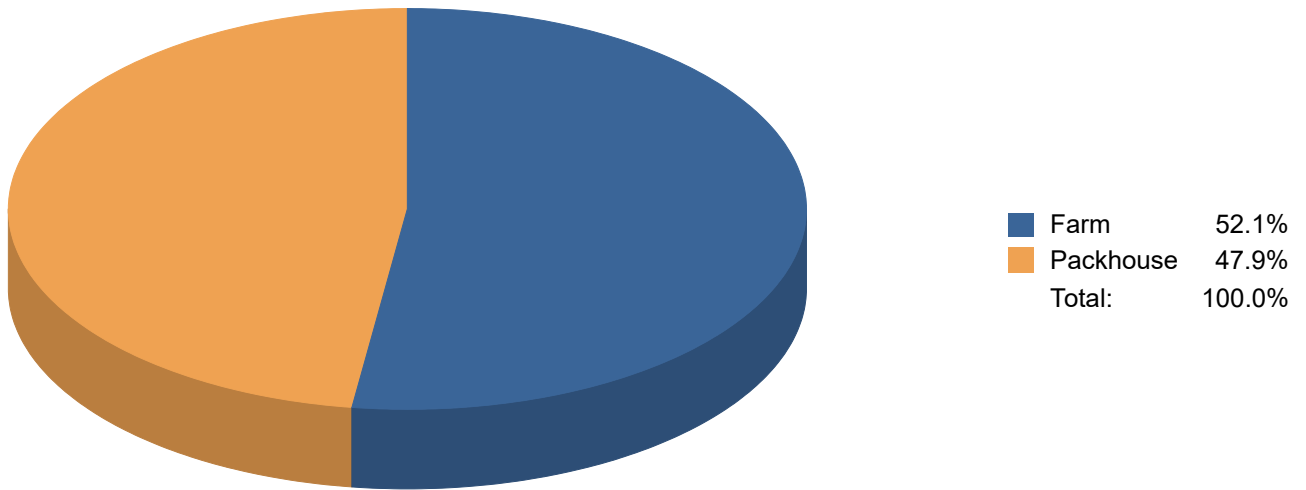




Carbon Calculator Results

Business Name: Hadeco Magaliesburg
Country Name: South Africa
Creation Date: 2024/03/19 11:36:10
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

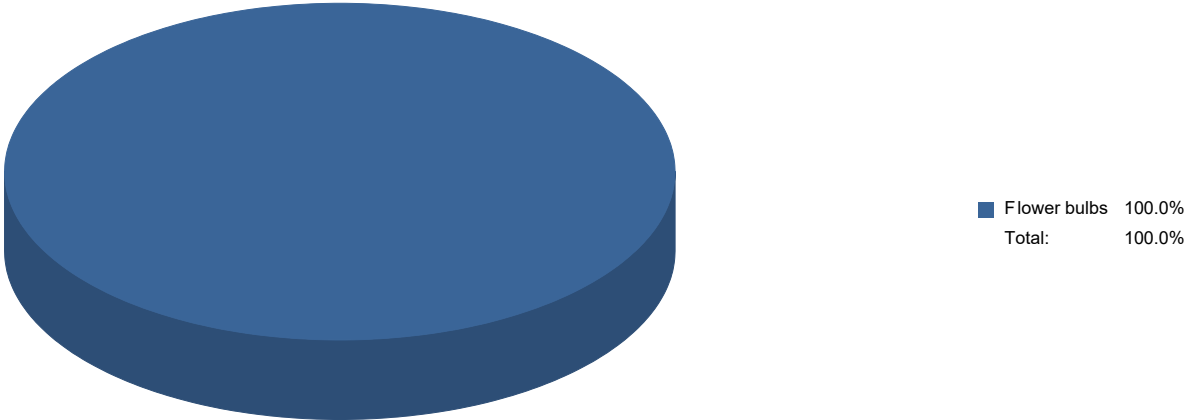


| Boundary | Ton CO2e | % |
|--------------|---------------|---------------|
| Farm | 297.92 | 52.13 |
| Packhouse | 273.55 | 47.87 |
| Total | 571.47 | 100.00 |

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 Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

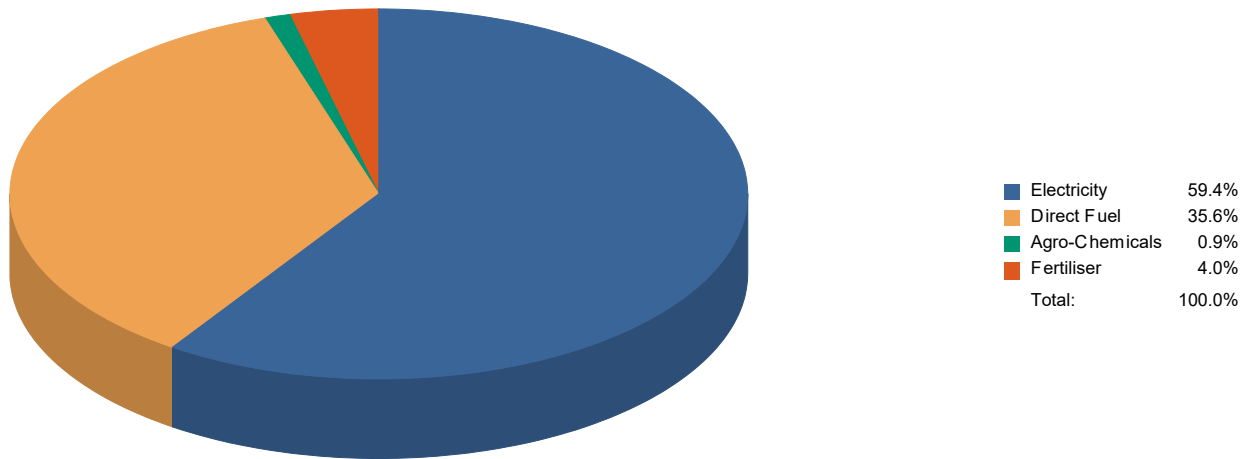
Business Unit - Commodity View



| Commodity | Ton CO2e | % |
|--------------|---------------|---------------|
| Flower bulbs | 571.47 | 100.00 |
| Total | 571.47 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Farm - Emission Source View



| Emission Source | Ton CO2e | % |
|-----------------|---------------|---------------|
| Electricity | 177.10 | 59.45 |
| Direct Fuel | 106.04 | 35.59 |
| Agro-Chemicals | 2.82 | 0.95 |
| Fertiliser | 11.95 | 4.01 |
| Total | 297.92 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Farm Commodity Benchmark

| Commodity | Kg CO2e per Kg Fruit | Benchmark |
|--------------|----------------------|-----------|
| Flower bulbs | 113,584.41 | N/A |

Farm Hectare Breakdown

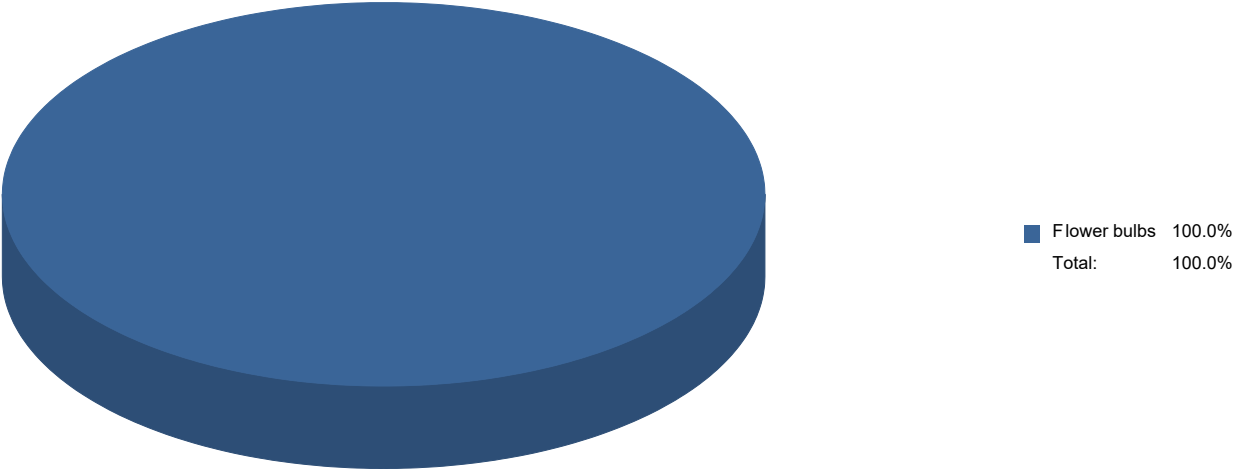
| Commodity | Ton CO2e per Bearing Ha |
|--------------|-------------------------|
| Flower bulbs | 7.49 |

Farm Scope Breakdown

| | Ton CO2e | % |
|--------------|---------------|---------------|
| Scope 1 | 112.80 | 37.86 |
| Scope 2 | 177.10 | 59.45 |
| Scope 3 | 8.01 | 2.69 |
| Total | 297.92 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

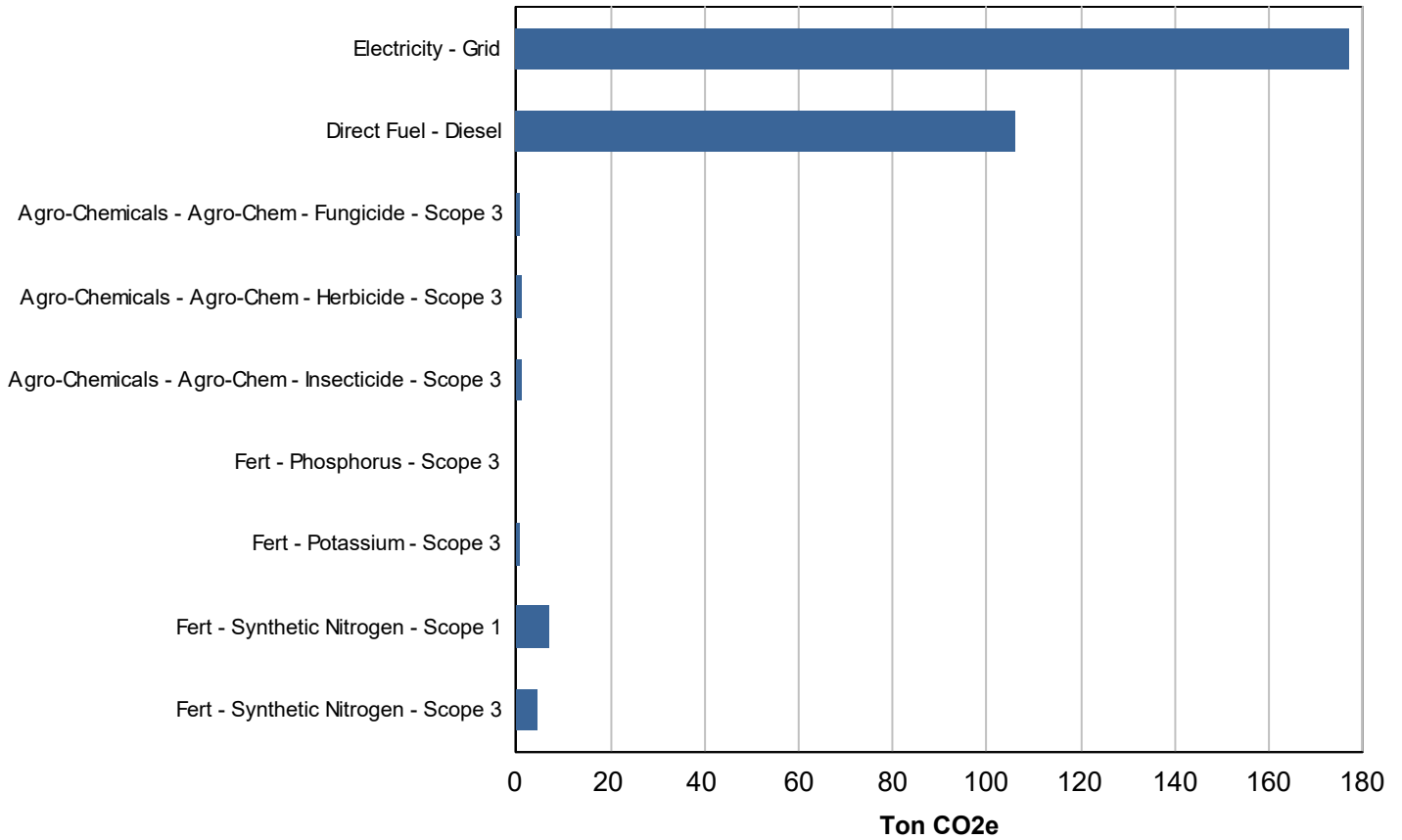
Farm - Commodity View



| Commodity | Ton CO2e | % |
|--------------|---------------|---------------|
| Flower bulbs | 297.92 | 100.00 |
| Total | 297.92 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

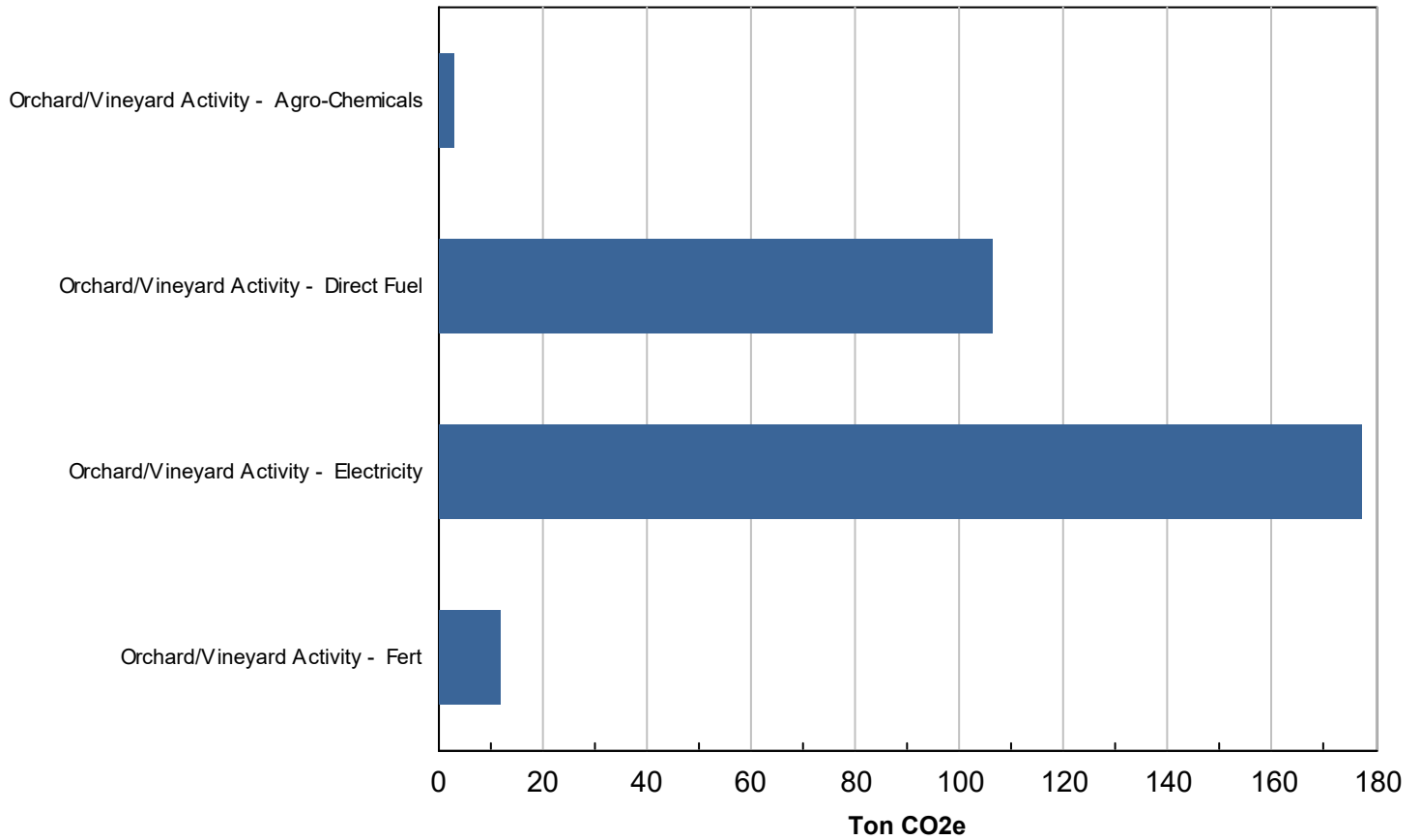
Farm - Emission Source Breakdown



| Emission Source | Ton CO2e | % |
|--|---------------|---------------|
| Electricity - Grid | 177.10 | 59.45 |
| Direct Fuel - Diesel | 106.04 | 35.59 |
| Agro-Chemicals - Agro-Chem - Fungicide - Scope 3 | 0.86 | 0.29 |
| Agro-Chemicals - Agro-Chem - Herbicide - Scope 3 | 0.95 | 0.32 |
| Agro-Chemicals - Agro-Chem - Insecticide - Scope 3 | 1.01 | 0.34 |
| Fert - Phosphorus - Scope 3 | 0.00 | 0.00 |
| Fert - Potassium - Scope 3 | 0.62 | 0.21 |
| Fert - Synthetic Nitrogen - Scope 1 | 6.76 | 2.27 |
| Fert - Synthetic Nitrogen - Scope 3 | 4.57 | 1.54 |
| Total | 297.92 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Farm - Activity Breakdown



| Activity Breakdown | Ton CO2e | % |
|--|---------------|---------------|
| Orchard/Vineyard Activity - Agro-Chemicals | 2.82 | 0.95 |
| Orchard/Vineyard Activity - Direct Fuel | 106.04 | 35.59 |
| Orchard/Vineyard Activity - Electricity | 177.10 | 59.45 |
| Orchard/Vineyard Activity - Fert | 11.95 | 4.01 |
| Total | 297.92 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Detailed Carbon Emissions Breakdown

| Detailed Activities | Ton CO2e | % |
|---|---------------|---------------|
| Electricity - Grid - Orchard/Vineyard Activity - BO | 123.62 | 41.49 |
| Electricity - Grid - Orchard/Vineyard Activity - NBO | 53.48 | 17.95 |
| Direct Fuel - Diesel - Orchard/Vineyard Activity - BO | 106.04 | 35.59 |
| Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO | 11.33 | 3.80 |
| Fert - - Phosphorus - Orchard/Vineyard Activity - BO | 0.00 | 0.00 |
| Fert - - Potassium - Orchard/Vineyard Activity - BO | 0.62 | 0.21 |
| Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO | 0.86 | 0.29 |
| Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO | 1.01 | 0.34 |
| Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO | 0.95 | 0.32 |
| Total | 297.92 | 100.00 |

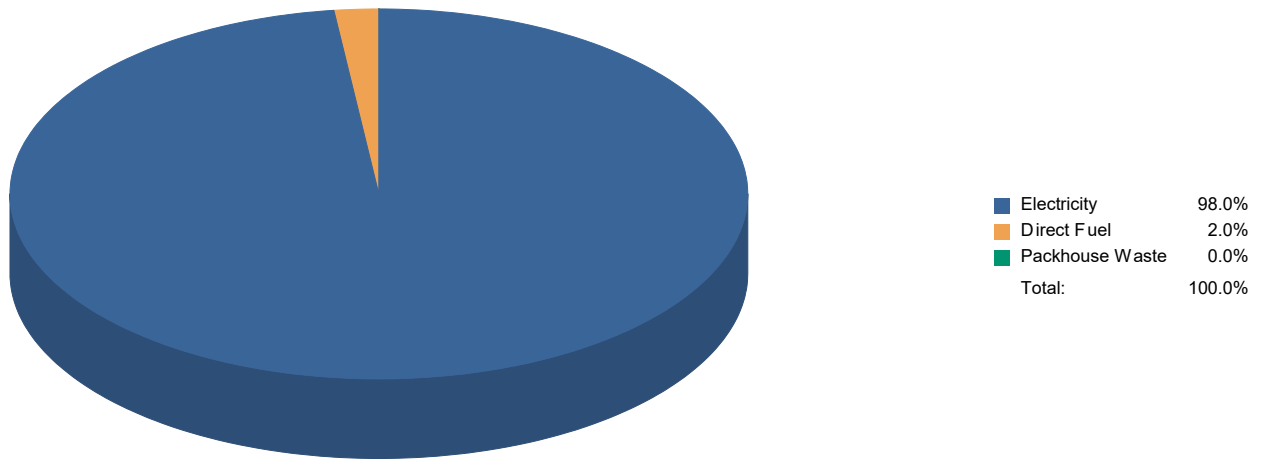
Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Farm Consumption Benchmarks

| Commodity | Consumption Measure | Result | Benchmark |
|--------------|---|----------|-----------|
| Flower bulbs | kL Water per Ton Fruit | 1.82 | N/A |
| Flower bulbs | kL Water per Bearing Ha | 20.68 | N/A |
| Flower bulbs | kWh Orchard / Vineyard Electricity per Ton Fruit | 330.37 | N/A |
| Flower bulbs | kWh Orchard / Vineyard Electricity per Bearing Ha | 3,763.18 | N/A |
| Flower bulbs | Liters Orchard / Vineyard Diesel per Ton Fruit | 90.65 | N/A |
| Flower bulbs | Liters Orchard / Vineyard Diesel per Bearing Ha | 1,032.55 | N/A |
| Flower bulbs | Kg Pure N per Ton Fruit | 2.28 | N/A |
| Flower bulbs | Kg Pure N per Bearing Ha | 25.97 | N/A |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Packhouse - Emission Source View



| Emission Source | Ton CO2e | % |
|-----------------|---------------|---------------|
| Electricity | 267.96 | 97.96 |
| Direct Fuel | 5.58 | 2.04 |
| Packhouse Waste | 0.01 | 0.00 |
| Total | 273.55 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Packhouse Commodity Benchmark

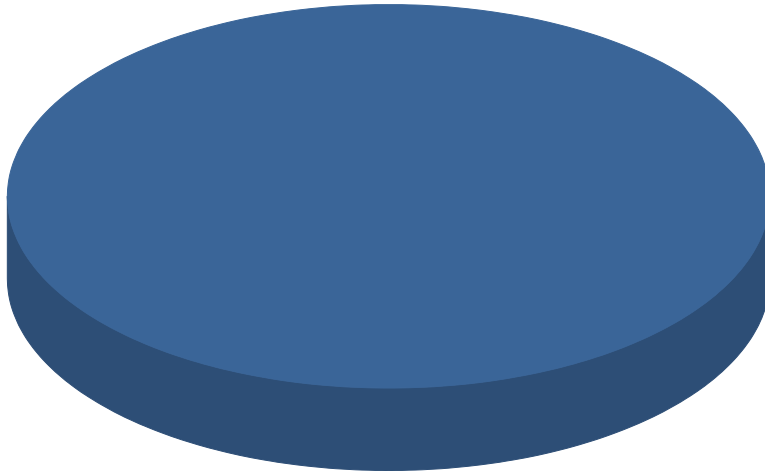
| Commodity | Kg CO2e per Kg Fruit | Benchmark |
|--------------|----------------------|-----------|
| Flower bulbs | 0.77 | N/A |

Packhouse Scope Breakdown

| | Ton CO2e | % |
|--------------|---------------|---------------|
| Scope 1 | 5.59 | 2.04 |
| Scope 2 | 267.96 | 97.96 |
| Total | 273.55 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Packhouse - Commodity View

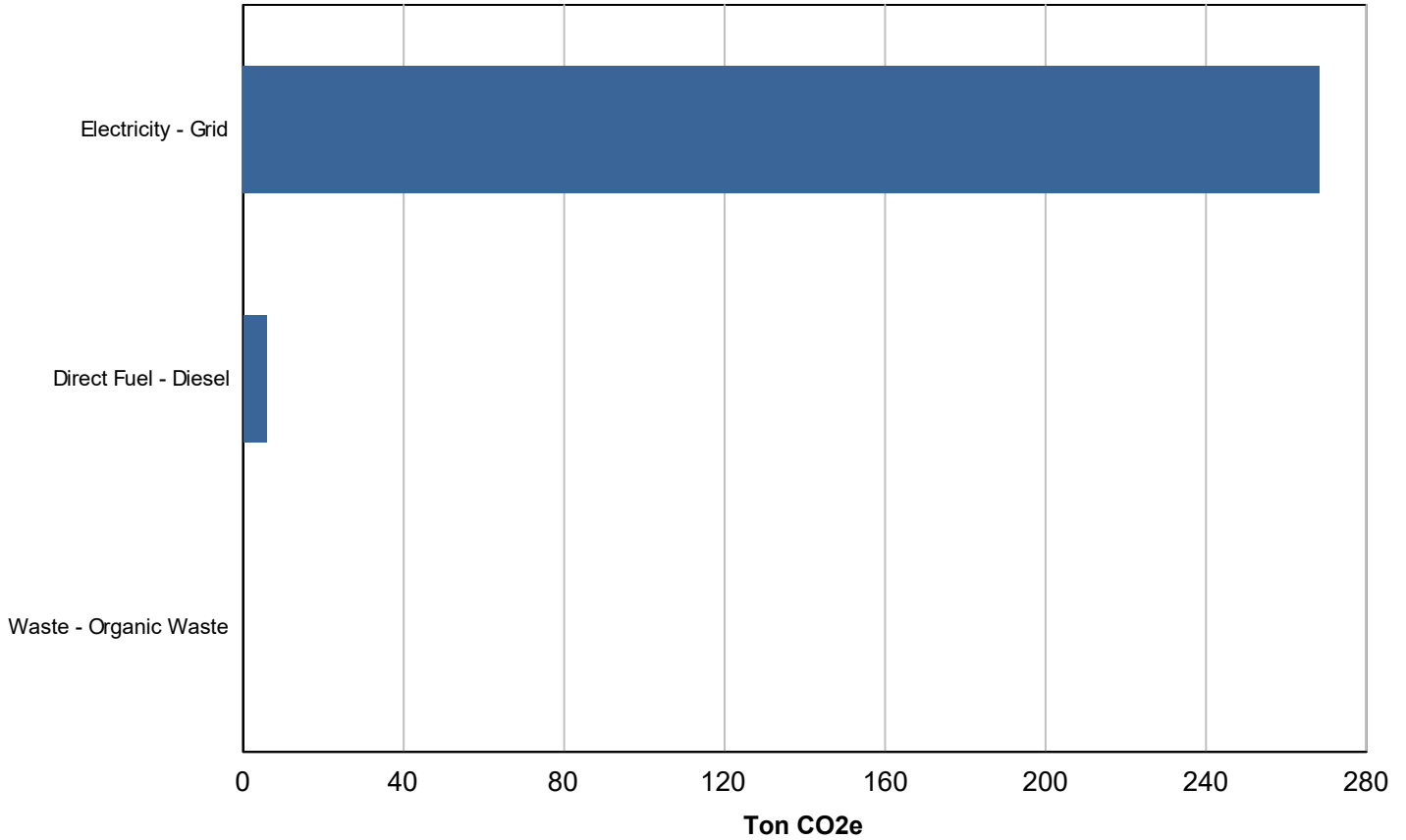


■ Flower bulbs 100.0%
Total: 100.0%

| Commodity | Ton CO2e | % |
|--------------|---------------|---------------|
| Flower bulbs | 273.55 | 100.00 |
| Total | 273.55 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

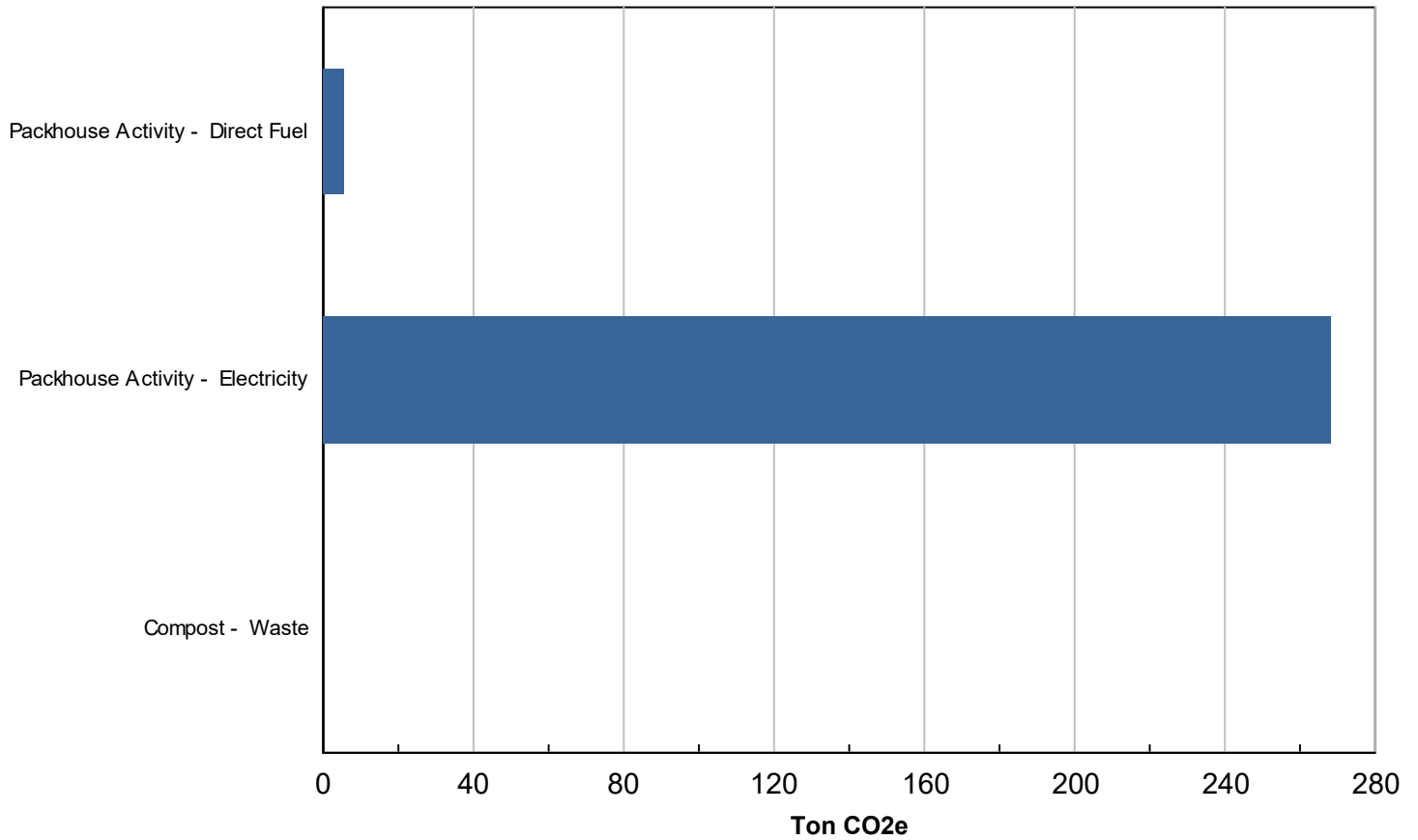
Packhouse - Emission Source Breakdown



| Emission Source | Ton CO2e | % |
|------------------------|-----------------|---------------|
| Electricity - Grid | 267.96 | 97.96 |
| Direct Fuel - Diesel | 5.58 | 2.04 |
| Waste - Organic Waste | 0.01 | 0.00 |
| Total | 273.55 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Packhouse - Activity Breakdown



| Activity Breakdown | Ton CO2e | % |
|----------------------------------|---------------|---------------|
| Packhouse Activity - Direct Fuel | 5.58 | 2.04 |
| Packhouse Activity - Electricity | 267.96 | 97.96 |
| Compost - Waste | 0.01 | 0.00 |
| Total | 273.55 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Detailed Carbon Emissions Breakdown

| Detailed Activities | Ton CO2e | % |
|---|---------------|---------------|
| Electricity - Grid - Packhouse Activity | 267.96 | 97.96 |
| Direct Fuel - Diesel - Packhouse Activity | 5.58 | 2.04 |
| Waste - Organic Waste - Compost | 0.01 | 0.00 |
| Total | 273.55 | 100.00 |

Business Name: Hadeco Magaliesburg
Dataset: 2024/03/19 11:36:10
Data Collection Period: Mar 2023 to Feb 2024

Packhouse Consumption Benchmarks

| | | | |
|--------------|---|--------|-----|
| Flower bulbs | kWh Packhouse Activity Electricity per Ton Fruit | 716.12 | N/A |
|--------------|---|--------|-----|

Business Name: Hadeco Magaliesburg

Dataset: 2024/03/19 11:36:10

Data Collection Period: Mar 2023 to Feb 2024