GHG Emissions Calculator

Track Scope 1 & 2 emissions using NGER methodology

Version 3.1 - Enhanced Edition

Based on the ILMA GHG Calculator model, adapted with permission for Australian facilities.

⚠ **Important Disclaimer**

This calculator is provided by the Australian Lubricant Association (ALA) as a general guide only. While ALA has endeavoured to ensure accuracy, it makes no warranties and accepts no liability for the accuracy, completeness, or reliability of calculations. Users are responsible for verifying all data and calculations for their specific circumstances. This tool should not replace professional advice or official reporting requirements.

Facility Information ℹ

Facility Name * ℹ

Location (State/Territory) * ℹ

Reporting Period * ℹ

Reporting Year * ℹ

Production Metrics (Optional)

Total Annual Production ℹ

tonnes

Emissions Intensity

0 kg CO_2e/tonne

Calculated automatically when production data is entered

Contact Information ⓘ

Name	Position
Email	Phone

Monthly Activity Data

Monthly Activity Data - All Sources

	Scope 1 - Direct Emissions									Scope 2		Total
	Gas (m³)	D-Gen (L)	W.Oil (L)	D-Veh (L)	Petrol (L)	LPG (L)	Refrig (kg)	CO_2F (kg)	Weld (kg)	Elec (kWh)	Steam (GJ)	
Jul	5,000	5,000	0	7,700	3,456	0	0	0	0	67,650	0	98.5
Aug	5,000	5,000	0	9,000	6,543	0	0	0	0	87,650	0	123
Sep	5,000	5,000	0	7,655	2,345	0	0	0	0	78,780	0	103
Oct	5,000	5,000	0	3,456	5,432	0	0	0	0	66,809	0	91.1
Nov	5,000	5,000	0	8,765	5,454	0	0	0	0	87,654	0	120
Dec	5,000	5,000	0	9,870	6,565	0	0	0	0	73,450	0	116

Jan	5,000	5,000	0	4,567	7,575	0	0	0	0	67,890	0	99.9
Feb	5,000	5,000	0	7,654	6,545	0	0	0	0	78,640	0	113
Mar	5,000	5,000	0	7,766	7,464	0	0	0	0	86,540	0	121
Apr	5,000	5,000	0	8,888	5,678	0	0	0	0	76,670	0	113
May	5,000	5,000	0	5,578	5,321	0	0	0	0	73,900	0	101
Jun	5,000	5,000	0	9,876	6,754	0	0	0	0	83,210	0	123
Total	60,000	60,000	0	90,775	69,132	0	0	0	0	928,843	0	1,323

Emission Reduction Initiatives 🛈

Track your sustainability initiatives and their impact on emissions.

Renewable Energy & Offsets

Scope 2 Reporting Method

Location-based   Market-based   🛈

Solar Generation 🛈

kWh/year

Green Power Purchase 🛈

%

Renewable Energy Certificates (RECs) 🛈

MWh

Carbon Offsets 🛈

t CO_2e

Carbon Neutral Energy Purchase 🛈

%

Material & Process Efficiency

Electric Forklifts ⓘ

Energy Efficiency Projects ⓘ

GJ/year

Waste Heat Recovery ⓘ

GJ/year

Additional Sustainability Notes

Estimated Emission Reductions

From Renewable Energy:
0 t CO_2e

From Efficiency Projects:
0 t CO_2e

Total Reductions:
0 t CO_2e

Annual Emissions Summary

Scope 1 Emissions ⓘ

691 t CO_2e

Direct fuel combustion

Scope 2 Emissions ⓘ

Location-based: 632 t CO_2e

Market-based: 632 t CO_2e

Purchased electricity

Total Emissions ⓘ

Location-based: 1,323 t CO_2e

Market-based: 1,323 t CO_2e

Scope 1 + Scope 2

Net Emissions (After Reductions & Offsets)

1,323 t CO_2e

Total emissions minus renewable energy, efficiency savings, and carbon offsets

Emissions Intensity

0 kg CO_2e/tonne

Per tonne of lubricant produced

Emissions by Source

Monthly Emissions Trend