

How to use the Vega CO2 Calculator.

Vega has commissioned the Carbon Reduction Institute (CRI) to construct a greenhouse gas emissions calculator. This calculator uses known industry emissions-factors for Paper and Ink manufacture, packaging materials and transport to calculate the climate change impacts of standard print jobs.

The various inputs required by the calculator are described below.

1/. Enter the product quantity.

Quantity

2/. Enter the product size.

Flat Size

 x Calc Using Flat Size

Finished Size

 x

Note/. By default, the calculation is based upon the finished size of the product. This is logical for books and brochures but you may want to use the flat size for products such as posters or point-of-sale items. To use the finished size check 'Calc Using Flat Size'.

3/. Enter the GSM, Pages and Stock-Type for each component (or section) of the product.

Cover :	Gsm	<input type="text" value="0"/>	Pages	<input type="text" value="0"/>	0.00 Kgs	<input type="text" value="Neo Gloss or Satin"/>	0.00 CO2e Tonnes
Text1 :	Gsm	<input type="text" value="0"/>	Pages	<input type="text" value="0"/>	0.00 Kgs	<input type="text" value="Neo Gloss or Satin"/>	0.00 CO2e Tonnes
Text2 :	Gsm	<input type="text" value="0"/>	Pages	<input type="text" value="0"/>	0.00 Kgs	<input type="text" value="Neo Gloss or Satin"/>	0.00 CO2e Tonnes
Text3 :	Gsm	<input type="text" value="0"/>	Pages	<input type="text" value="0"/>	0.00 Kgs	<input type="text" value="Neo Gloss or Satin"/>	0.00 CO2e Tonnes

For example a 24pp + 4pp cover book would have two components – the Cover and the text. The stock-types on offer are only those stocks for which the CRI was able to get enough data to calculate their emissions. We are working with our Paper-suppliers in order to increase the number of stock-choices. In the meantime, we recommend that you use the closest match from the current choices to calculate emissions. The emissions for each component are displayed as CO2e Tonnes.

Note/. Stock choice has a major impact on the resultant emissions. A fully recycled paper will produce less emissions than paper from virgin pulp.

4/. Enter the delivery breakdown.

CO2 generated by Delivery

1 point Melb

Delivery 1, Qty : Destination : Air Freight

Delivery 2, Qty : Destination : Air Freight

Delivery 3, Qty : Destination : Air Freight


Delivery 4, Qty : Destination : Air Freight

By default the calculator is set to allow for delivery to one point in the Melbourne Metropolitan area. You do not need to enter any information if delivery is for one point in Melbourne. The calculator will automatically assign the full quantity to Delivery 1.

To specify one or more alternative destinations, uncheck '1 point Melb' and enter the quantity and destination of each delivery. If Air freight is required then check 'Air Freight'.

Below is an example which shows a financial report with 4pp cover & 16pp text on A2 Gloss plus a 32pp financial section on recycled offset. Delivered by road to Melbourne(2000 copies) & Sydney(7500 copies) and by air to Brisbane(500 copies).

Vega - Carbon Offset Calculator [Help](#)



Total CO2e emissions – 6.55 Tonnes

Cost to Offset CO2e = \$117.82

Quantity

Flat Size x Calc Using Flat Size

Finished Size x

Cover :	Gsm <input type="text" value="250"/>	Pages <input type="text" value="4"/>	311.85 Kgs	<input type="text" value="House - Gloss or Satin (FSC)"/>	1.00 CO2e Tonnes
Text1 :	Gsm <input type="text" value="130"/>	Pages <input type="text" value="16"/>	648.65 Kgs	<input type="text" value="House - Gloss or Satin (FSC)"/>	2.15 CO2e tonnes
Text2 :	Gsm <input type="text" value="90"/>	Pages <input type="text" value="32"/>	798.34 Kgs	<input type="text" value="Re Art Offset"/>	1.69 CO2e Tonnes
Text3 :	Gsm <input type="text" value="0"/>	Pages <input type="text" value="0"/>	0.00 Kgs	<input type="text" value="House - Gloss or Satin (FSC)"/>	0.00 CO2e Tonnes

CO2 generated by Delivery

1 point Melb

Delivery 1, Qty : Destination : Road Air 0.00 CO2e Tonnes

Delivery 2, Qty : Destination : Road Air 0.20 CO2e Tonnes

Delivery 3, Qty : Destination : Road Air 1.50 CO2e Tonnes

Delivery 4, Qty : Destination : Road Air 0.00 CO2e Tonnes

Include Pallets kgs in each = 2 Pallets, 100.00 kgs 0.00 CO2e Tonnes

Include Cartons kgs in each = 147 Cartons, 31.75 kgs 0.01 CO2e Tonnes

Total Weight = 1,890.59 Kgs