



# Carbon Calculator Tutorial

Prepared by Green Media Solutions



## Our Carbon Footprint

As we launch our Carbon Calculator in 2011, it will be easier for filmmakers to track carbon footprints and, most importantly, implement and achieve goals toward carbon emissions reductions. We feel it is important to design systems that will give us constant feedback on the progress we're making, in order to continually update the strategies we pursue to help solve the crisis. When we as human beings observe something, the act of observing affects us. Calculating the carbon of our productions is one of the ways we can visualize the true nature of our impact, monitor our progress, and evaluate the potential solutions to eliminate global warming pollution.



# Intro and Checklist



- Acts as a Table of Contents
- As you begin filling in the content, this page will show you the “Status” of whether the data has been entered correctly.

Carbon-Calculator [Compatibility Mode] - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Acrobat

C16 fx 8-Practices & Procurement

Version 2.0

**Production Carbon Calculator General Info & Checklist**

This calculator measures the carbon emissions generated by your production based on information you enter on emission sources such as utility electricity and heating, fuel, flight and hotel use. Information for each emission source is collected on a separate worksheet tab. Information is not required for every tab, and should only be entered for the emission sources associated with your production. The table below provides a general description of the information collected and data collection status for each emission source data collection worksheet.

Please contact XXXX at XXXXXX with any questions.

click a tab name to link to the sheet

Status	Calculator Tab	Description
N/A	<a href="#">Detailed Instructions</a>	Provides step-by-step instructions on how to enter information into each data collection tab. <i>Data is not required for every tab, and should be entered only for the emission sources associated with the production.</i>
Data Entered Correctly	<a href="#">1-Production Information</a>	Calculator contact information & general production information including production name, headquarters location & schedule. Production location information (e.g., production offices, warehouses, stages) used for utility electricity, natural gas & heating oil tracking
Data Entered Correctly	<a href="#">2-Electricity</a>	Total electricity used for all locations entered in Production Info
Data Entered Correctly	<a href="#">3-Natural Gas &amp; Heating</a>	Total natural gas and/or heating oil used for all locations entered in Production Info, if appropriate
Data Entered Correctly	<a href="#">4-Fuel</a>	Fuel used for equipment (e.g., generators) and vehicles

Intro & Checklist Detailed Instructions 1-Production Info 2-Electricity 3-Nat. Gas & Heating Oil 4-Fuel 5-Hotels/Housing

Ready



# Detailed Instructions



- Contains instructions on how to fill out Each of the following tabs
- Hyperlink to each of the tabs
  - e.g. Click anywhere on the “Electricity” section to link to the “Electricity” section
- Refer back to this page when you have questions about entering data

	A	B	C	D	E	F	G
1		click a tab name to link to the sheet					
2		<b>Production Calculator Data Entry Detailed Instructions</b>					
3		1.1	Production Calculator Contact Information: Enter your name, information and the date				
4		1.2	Production Coordinator Sign Off: Enter the name of the production coordinator and date of calculator review and approval				
5		1.3	Production Information: Enter the name, start and end date, headquarter location information and length information				
6		1.4	Location Information- <i>Note that this location information is used for the Electricity and Natural Gas and Heating Oil data entry and calculations.</i> Enter the name of each production location into Column B. Select the location type (e.g., Office, Stage(s)) from column C. Select the location country from column D. If the location is in the US, Canada or Australia, select the state or province from the dropdown list in column E. Enter the address and city & postal codes into columns F and G, respectively, if desired.				
7		2.1	General Electricity Questions: Select Yes or No from the dropdowns to identify if you purchased renewable energy, RECs or used power drops on your production. Enter comments about your production energy use (optional)				
8		2.2	Location-Column B: Select a Location Name from the dropdown box. <i>Locations are entered in Column B of the Production Info Tab</i>				
9		2.3	From & End Date (Optional)- Column C & D: enter the start and end date of the location electricity information (e.g., the dates on the invoice)				
10		2.4	Enter data for ONE Option for Electricity Information:				
11		2.4.1	Preferred Option- Actual Electricity Use- Column E: Enter the actual electricity use (in kWh) for the selected location and date range (if entered)				
12		2.4.2	Second Option- Enter the location area in column F, select the area units from column G, and enter the number of days the location was used in column H				
13		2.4.3	Third Option- Cost- Enter the total cost of electricity for the location in Column I, and select the cost data source (invoice or rent) from column J				
14			The option for the data you selected will display in column K. If you entered information for multiple options (e.g., Electricity use AND cost information) "Multiple Entered!" will display in red. Please delete data from the lowest tier option.				
15		3.1	General Natural Gas & Heating Oil Questions: Enter comments about natural gas and heating oil use for your production (optional)				
16		3.2	Location-Column B: Select a Location Name from the dropdown box. <i>Locations are entered in Column B of the Production Info Tab</i>				
17		3.3	From & End Date (Optional)- Column C & D: enter the start and end date of the location electricity information (e.g., the dates on the invoice)				
18		3.4	Fuel Type- Column D: select the fuel type (natural gas or heating oil) from the dropdown list				
19		3.5	Enter data for ONE Option for Natural Gas or Heating Oil Information:				
20		3.5.1	Preferred Option- Enter the actual natural gas or heating oil use for the selected location and date range (if entered) in column F and select the associated unit (e.g., cubic feet) for the fuel use amount in column G				
21		3.5.2	Second Option- Enter the location area in column H, select the area units from column I (e.g., square feet), and enter the number of days the location was used in column J				
22		3.5.3	Third Option- Cost- Enter the total cost of natural gas or fuel oil for the location in Column K, and select the cost data source (invoice or rent) from column L				
			The option for the data you selected will display in column M. If you entered information for multiple options (e.g.,				













# Tab 6: Commercial Air Travel

1. Enter add'l comments (E.g. Strategies used, policies implemented).

2. Enter Departure & Arrival City information (optional)

3. Choose ONE OPTION to record air travel.

a. Preferred Option: Flights by Route (look up distance at e.g., [www.usatoday.com/travel/flights/miles/calculator.htm](http://www.usatoday.com/travel/flights/miles/calculator.htm) )

b. Second Option: Total flight distance

6.1	General Commercial Air Travel Information- Enter comments about commercial air travel for your production (optional)
6.2	Departure and Arrival Location Information- Enter the departure airport code or city (e.g., DEN or Denver) in column B and the arrival code or city in column C (optional)
6.3	Enter data for ONE Option for Commercial Air Travel Information:
6.3.1	Preferred Option- Flights by Route: Enter the total number of individual one-way trips for all people flown on this leg in column D. A round trip is equal to two trips. For example, if 5 cast members travel round trip from LAX to JFK 3 times, the number of trips equals 30 (5 x 2 x 3). Multiple trips on the same route can be entered on separate rows, as long as the number of trips is correct. Enter the one way flight distance of the route in column E and select the associated units from column F (e.g., LAX to JFK = 2500 land miles)
6.3.2	Second Option- Total Flight Distance: Enter the total commercial flight distance (in passenger miles) for the production into column G and the associated units into column H. Thus, if more than one person is on the same flight, the total passenger miles would be the distance traveled by passenger one plus the distance traveled by passenger two
	The option for the data you selected will display in column K. If you entered information for both options (i.e., flights by route AND total commercial flight distance) "Multiple Entered!" will display in red. Please delete data from the total flight distance columns

Click for Instructions   Required field   Input not required

**Sample Production Commercial Air Travel Information**

Comments  
**1**

Enter the information for ONE option for air travel. Departure and arrival locations are optional.

PREFERRED OPTION		Second Option			Option Selected		
Departure Airport Code/City	Arrival Airport Code/City	# of Trips on this Route (Total the number of individual one-way trips for all people. Round-trip = 2 trips)	One Way Flight Distance	Flight Distance Units		Total Commerical Flight Distance	Flight Distance Units
LAX	DEN	6	1000	land miles			Preferred Option
					5,000	land miles	2nd Option
JFK	DEN	4	1500	land miles			Preferred Option
				land miles kilometers nautical miles			
				Select the units associated with the one way flight distance			

2
3a
3b







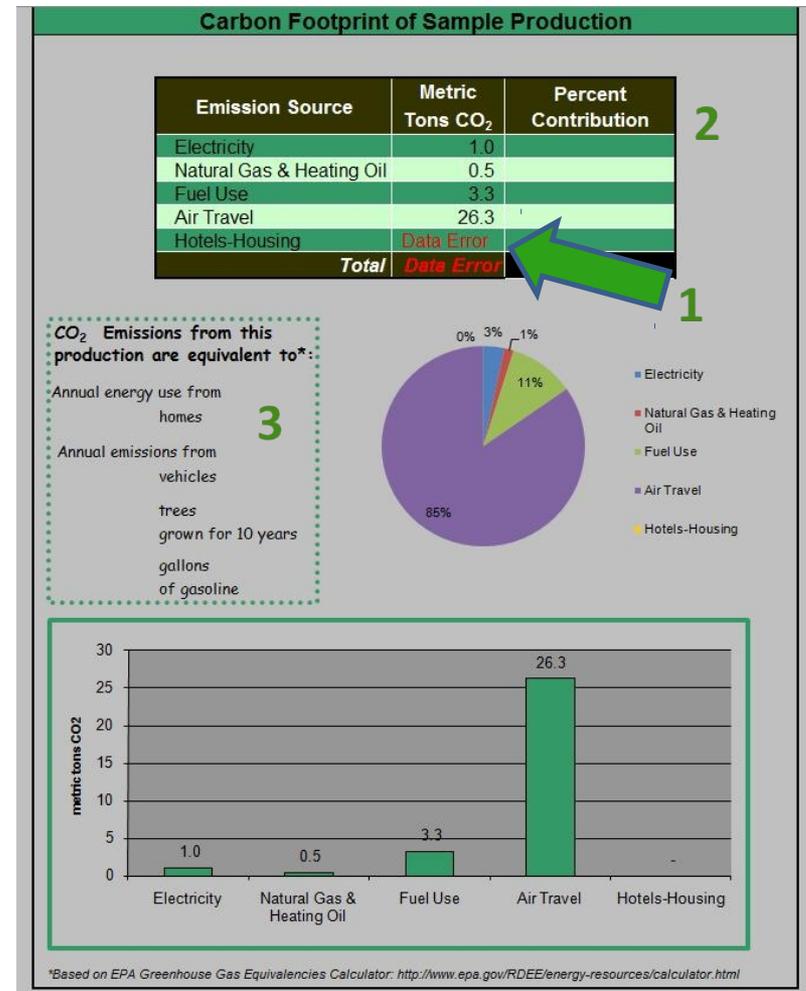
## Tab 9: Emissions Result - Incomplete

This tab takes everything you have entered on the previous Tabs and calculates your emissions.

1. If data was not entered correctly on a previous tab, you will see a “Data Error” message in that column - i.e. in Hotels-Housing here.

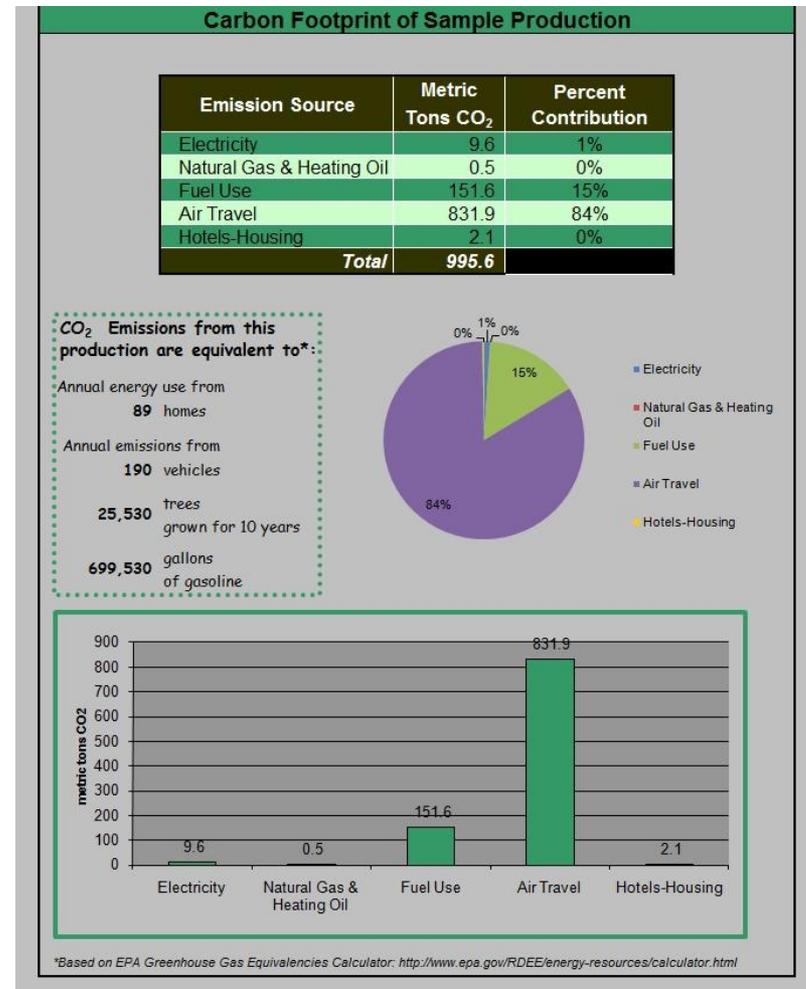
2 & 3. If there is a Data Error, certain metrics will not be calculated.

\*See next slide for example of fully completed emissions report.





## Example of complete Emissions Results Report



# Questions?

Contact  
Sck@greenmediasolutions.com  
for information about  
Carbon Calculator Workshops