



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 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	Detailed Instructions	Provides step-by-step instructions on how to enter information into each data collection tab. Data is not required for every tab, and should be entered only for the emission sources associated with the production.
Data Entered Correctly	1-Production Information	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	2-Electricity	Total electricity used for all locations entered in Production Info
Data Entered Correctly	3-Natural Gas & Heating	Total natural gas and/or heating oil used for all locations entered in Production Info, if appropriate
Data Entered Correctly	4-Fuel	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-Travel Emissions 6-Other Emissions

Ready

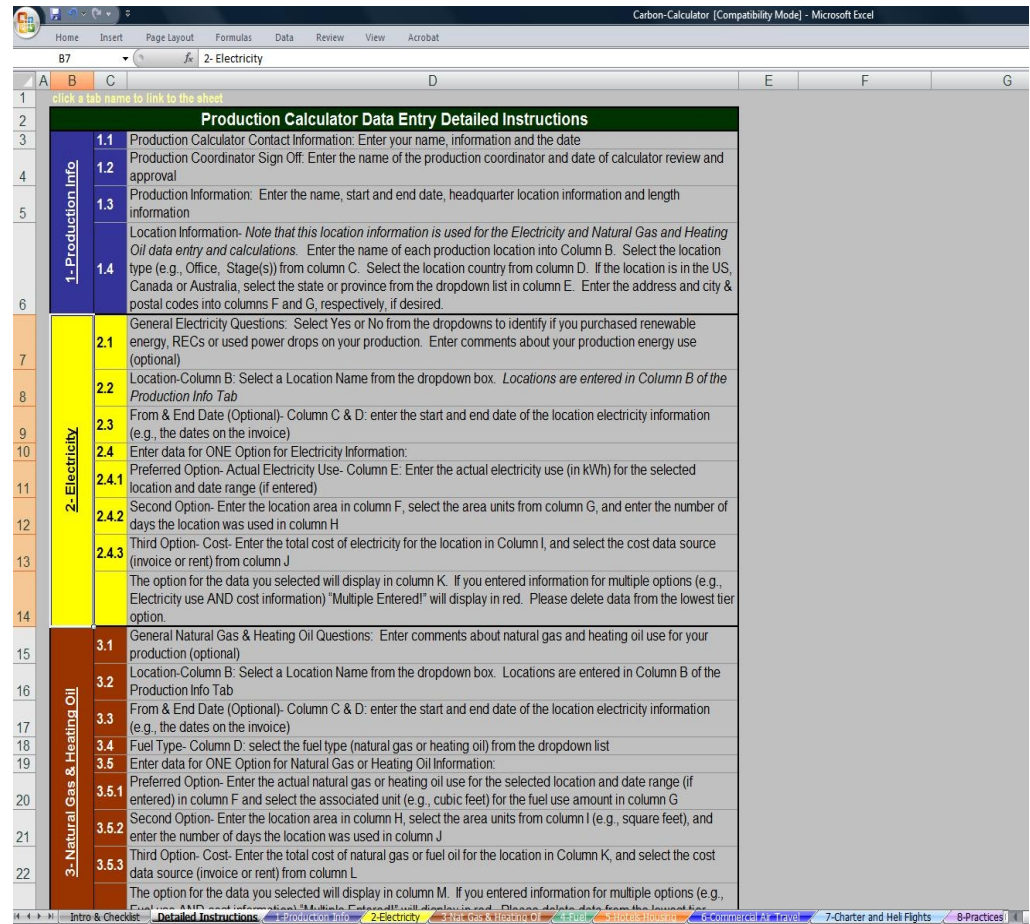


Green Production Guide

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



1. **Hyperlink back to “Instructions” Tab if you need clarification.**
2. **Enter Production Contact info.**
- 2 3. **Enter general production information (i.e. Start Date)**
4. **Type in all locations**
5. **For each location name, choose a Location Type from the dropdown list.**
6. **Choose a Country and State/Province from the dropdown list.**
1. **Additional address information is optional.**

[illegible]

1. Using dropdown list, answer questions about power usage.
2. Enter add'l comments (E.g. "We used only EPA EnergyStar light bulbs".)
3. Use dropdown list to select locations you entered on the Production Info Tab.
4. Choose ONE OPTION to record electricity use for each location.
 - a. Preferred Option: Actual electricity use (kWh)
 - b. Second Option: Area of space x days used
 - c. Third Option: Cost of electricity

Click for Instructions

Required field

Input not required

Sample Production Purchased Electricity Information

Did You Purchase Renewable Energy or RECs?

Did you use power drops?

How much energy was powered from power drops?

Comments

2

Locations entered in Production Info tab

Enter all information for ONE option for each location and date range

Location Name	From Date	End Date	PREFERRED OPTION	Second Option			Third Option		Option Selected
			Electricity Use (kWh)	Area	Units	Days Used	Total Cost of Electricity (US\$)	Cost Data Source	
Los Angeles Office								\$100	3rd Option
LocationB				1,000	square meters	5			2nd Option
Los Angeles Office			1,000						Preferred Option
Brooklyn Stage									
Santa Barbara House									
Rome Restaurant									

3

Select a location from the list. Locations are entered on the Production Info tab.

4a

4b

4c



Tab 3: Natural Gas

1. Enter add'l comments (E.g. Strategies used, policies implemented).
2. Use dropdown list to select locations you entered on the Production Info Tab.
3. Use dropdown list to select Fuel Type.
4. Choose ONE OPTION to record Natural Gas & Fuel Oil use for each location.
 - a. Preferred Option: Amount of Fuel
 - b. Second Option: Area of space x days used
 - c. Third Option: Cost of Fuel

3-Natural Gas & Heating Oil	3.1	General Natural Gas & Heating Oil Questions: Enter comments about natural gas and heating oil use for your production (optional)
	3.2	Location-Column B: Select a Location Name from the dropdown box. Locations are entered in Column B of the Production Info Tab
	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)
	3.4	Fuel Type- Column D: select the fuel type (natural gas or heating oil) from the dropdown list
	3.5	Enter data for ONE Option for Natural Gas or Heating Oil Information:
	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
	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
	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., Fuel use AND cost information) "Multiple Entered!" will display in red. Please delete data from the lowest tier option.		

[Click for Instructions](#)

Required field Input not required

Sample Production Natural Gas & Fuel Oil Information

Comments

1

Locations entered in Production Info tab				Enter all information for ONE option for each location and date range								Option Selected
Location Name	From Date	End Date	Fuel Type	PREFERRED OPTION		Second Option		Third Option				
				Fuel Use Amount	Fuel Use Units	Area	Units	Days Used	Total Cost of Fuel (US\$)	Cost Data Source		
Los Angeles Office			Fuel Oil						\$100.00	invoice	3rd Option	
Brooklyn Stage			Natural Gas	123	cubic feet						Preferred Option	
Santa Barbara House			Fuel Oil			1000	square meters	5			2nd Option	
			Fuel Oil									
			Natural Gas									
2		3	Select the type of fuel from the dropdown list	4a		4b			4c			



Tab 4: Fuel

- | | |
|------|--|
| 4.1 | General Fuel Use Reasons. Select Yes or No from the dropdowns to identify if you used hybrid vehicles or enforced the no-idling policy on your fleet. Enter comments about your production fuel use (optional). |
| 4.2 | Equipment Type. Column B. Select an equipment type from the dropdown list. If the equipment type is unknown or you would like to enter information for multiple types of equipment, select "Other". |
| 4.3 | From & End Date (Optional). Column C & D. Enter the start and end date of the equipment fuel use information for this transaction. |
| 4.4 | Select the reason for the equipment use (e.g., personal, production) from the dropdown list in column E (Optional). |
| 4.5 | Select the type of fuel used for the associated selected equipment from the dropdown list in column F. |
| 4.6 | Enter data for ONE Option for Fuel Use. |
| 4.7 | Preferred Option- Actual Fuel Use. Enter the actual fuel use in column G and select the associated units (e.g., gallons) from the dropdown list in column H. |
| 4.8 | Second Option- Cost. Enter the total cost of the equipment fuel in US dollars in column I. Enter the average cost per gallon of the fuel and its unit in column J. If the average cost per gallon is unknown, check the following links for regional cost information: gasoline: http://www.eia.doe.gov/indus/gas_prices/petroleum_usd_prices_publications/wrgp/mo_gas_home_page.html ; diesel: http://honto.eia.doe.gov/indus/indusdiesel.asp ; alternative fuels (Biodiesel, CNG, E85, LNG, LPG) http://www.eia.doe.gov/indus/indusaltfuel.asp |
| 4.9 | Third Option- Tires. This option applies only to vehicles. Enter the total miles driven for the selected vehicle type in column K. |
| 4.10 | The option for the data you selected will display in column K. If you entered information for multiple options (e.g., Fuel Use and Cost information) "Multiple Entries" will display in red. Please delete data from the lowest tier option. |

[illegible]

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)
 - 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 Commercial 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**



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

3. Choose ONE OPTION to record flight info for each Plane Type.

- a. Preferred Option:
Amount of Fuel
- b. Second Option:
Hours Flown
- c. Third Option:
Distance Flown

7. Charter & Helicopter Flights	7.1	General Charter and Helicopter Flight Information: Enter comments about charter and helicopter air travel for your production (optional)
	7.2	Plane Information: Select the plane type from the dropdown list in column B (required) and enter the plane model in column C (optional)
	7.3	Enter data for ONE Option for Chartered and Helicopter Flights:
	7.3.1	Preferred Option- Actual Fuel Use: Enter the actual fuel used for the plane type selected in column D and select the associated units (e.g., gallons) from the dropdown list in column E
	7.3.2	Second Option- Hours Flown: Enter the total hours flown by the selected plane type in column F
	7.3.3	Third Option- Distance: Enter the total distance flown by the selected plane type in column G and select the associated units (e.g. miles) from the dropdown list in column H
		The option for the data you selected will display in column I. If you entered information for multiple options (e.g., Fuel use AND hours used information) "Multiple Entered!" will display in red. Please delete data from the lowest tier option.

[illegible]

- 1. Enter Waste information, use dropdown list to choose unit.**
NOTE: Must be in WEIGHT (lbs, tons) not volume (yards, truckloads).
- 2. Enter add'l comments (E.g. "composted X, Y, Z", other challenges)**
- 3. Use dropdown list to select Product Type.**
- 4. Use dropdown list to select Product Category.**
- 5. Enter Quantity.**
- 6. Use dropdown list to enter type of Unit.**

[illegible]

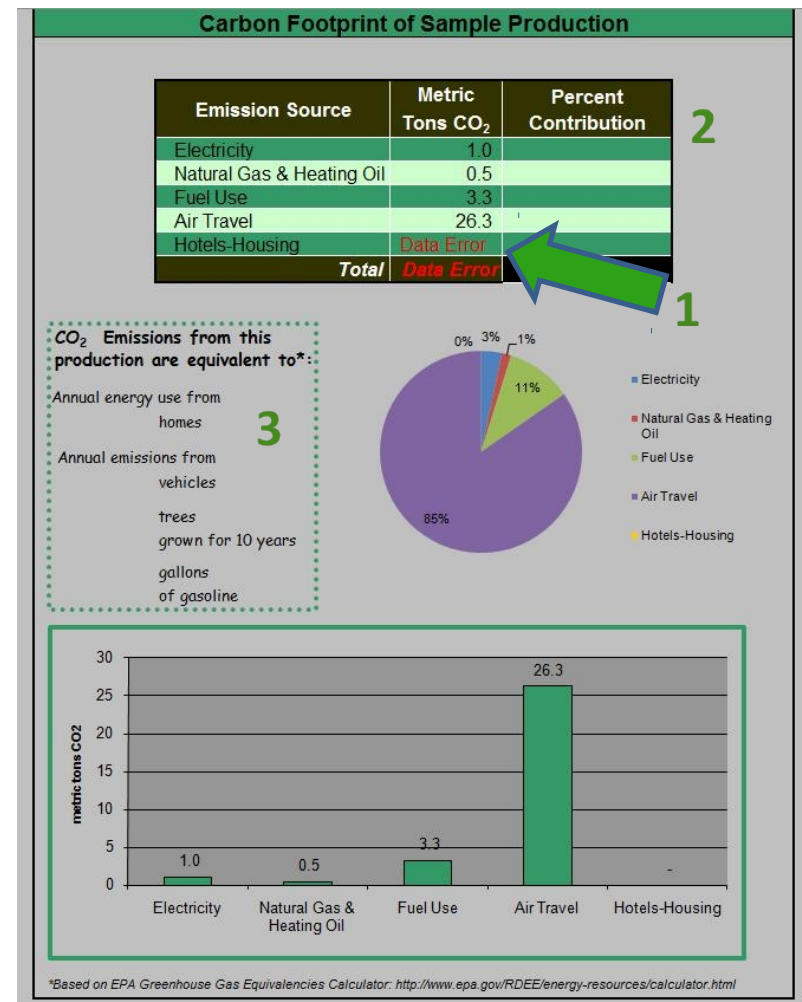
Tab 9: Emissions Result - Incomplete

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.

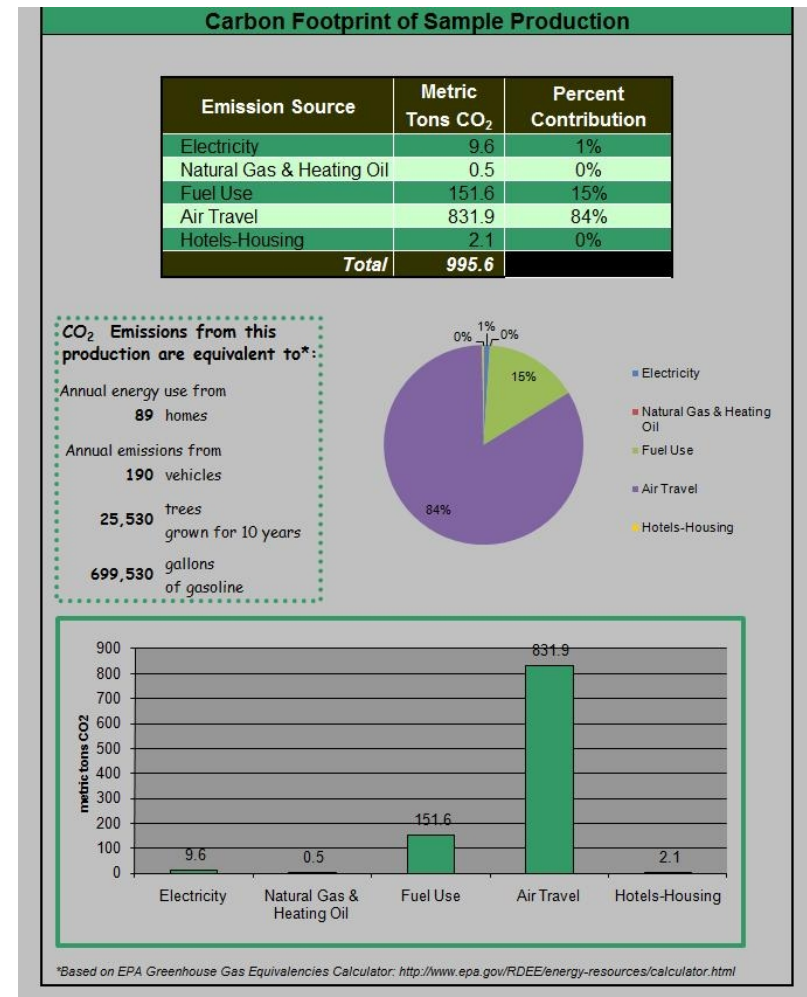
*See next slide for example of fully completed emissions report.



Tab 9: Emissions Results - Complete



Example of complete Emissions Results Report



Questions?

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