

EPA Simplified GHG Emissions Calculator ("the Calculator")

August 2022

The EPA Simplified GHG Emissions Calculator ("the Calculator") is designed as a simplified calculation tool to help organizations estimate and inventory their annual greenhouse gas (GHG) emissions for US-based operations. All methodologies and default values provided are based on the most current Center for Corporate Climate Leadership Greenhouse *Gas Inventory Guidance Documents* and the *Emission Factors Hub*. The Calculator will quantify the direct and indirect emissions from sources at an organization when activity data are entered into the various sections of the workbook for one annual period.

Before entering data, please: 1) Enable Macros and 2) Familiarize yourself with the Simplified Guide to GHG Management for Organizations.

Access the guide: <u>https://www.epa.gov/system/files/documents/2022-09/Simplified_Guide_GHG_Management_Organizations.pdf</u>

There are three primary steps in completing a GHG inventory. Each emissions source also has these three steps.

(1) **DEFINE**: The first step in completing a GHG inventory is to determine the boundaries and emissions sources included within those boundaries. After you have defined your organizational and operational boundaries, you can use the questions on the "Boundary Questions" worksheet to help you determine which emissions sources are relevant to your business.

Go to Boundary Questions

(2) **COLLECT**: The second step is to collect data for the defined annual period. This step is typically the most time consuming, since the data can be difficult to gather. This Calculator has help sheets with suggestions and guidance for each emissions source and a general help sheet for data management. **Click the drop down menu boxes below to navigate to these sheets**.

Help - Data Management

(3) **QUANTIFY**: The third step is to calculate emissions. This Calculator is designed to complete the emissions quantification step for you. Once the user enters data in this MS Excel spreadsheet, the emissions will be calculated and totaled on the "Summary" sheet.

Calculator Guidance - Important Information

- (A) Navigate to the data entry sheets using the drop down menu in the dark grey cell below and then clicking on the "Go To Data Entry Sheet" button. On the data entry sheets enter data in ORANGE cells only.
- (B) This Calculator has several "Tool Sheets" with useful reference data such as unit conversions, heat contents, and emission factors. Click on the buttons below to go to the appropriate Tool Sheet.
- (C) Data must be entered in the units specified on the data entry sheets. Use the "Unit Conversions" or "Heat Content" sheets if unit conversion is necessary prior to entering data into the Calculator.
- (D) If more guidance is needed, you can reference the emission factor data sources found on the "Emission Factors" sheet.

Tool Sheets	Quick Data Entry Navigation
Unit Conversions	Upstream Trans and Dist
Heat Content	
Emission Factors	



Calculator Notes

Emission sources of all seven major GHGs are accounted for in the inventory and in this Calculator: carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3). The Calculator allows the user to estimate GHG emissions from scope 1 (direct), scope 2 (indirect), and some scope 3 (other indirect) sources.

The Calculator uses U.S.-specific cross-sector emission factors from the *Emission Factors Hub*. Many industrial sectors also have process-related emissions sources that are specific to their sector. EPA's Greenhouse Gas Reporting Program provides guidance and tools that can aid in the calculation and reporting of these emissions:

https://www.epa.gov/ghgreporting

The GHG Protocol also provides guidance on calculating emissions from industrial processes.



Operational Boundary Questions - Emissions Sources to Include

Guidance

Use the questions below to help you determine which emissions sources should be included in the inventory.

Emissions Source Questions

A typical office-based organization will likely have the following (scope 1 and scope 2) emissions sources:

- Stationary Combustion
- Refrigeration and AC
- Electricity

If you answer "yes" to a question below, that emissions source should be included in your inventory. For each facility within the defined organizational boundary, collect the necessary data for the selected time period. Use the corresponding Excel sheet to quantify these emissions.

Tip: you may need to ask your landlord about heating sources, steam purchased and refrigerants

Stationary Combustion	Yes or No?
Do you have facilities that burn fuels on-site (e.g., natural gas, propane, coal, fuel oil for heating, diesel fuel for backup generators, biomass fuels)?	Y
Mobile Sources	
Do any vehicles fall within your organizational boundary? This can include cars, trucks, propane forklifts, aircraft, boats. Only vehicles owned or leased by your organization should be included here.	
Refrigeration and Air Conditioning	
Do your facilities use refrigeration or air conditioning equipment?	Y
Fire Suppression	
Do your facilities use chemical fire suppressants?	N
Purchased Gases	
Do you purchase any industrial gases for use in your business? These gases may be purchased for use in manufacturing, testing, or laboratories.	Ν
Electricity	
Does your inventory include facilities that use electricity?	Y
Steam	
Do you purchase steam for heating or cooling in your facilities?	N
Market-Based Emission Factors (entered on Electricity and or Steam tabs)	
Do you purchase renewable energy certificates (RECs) or green power products? Do you purchase electricity through a power purchase agreement (PPA)? Do you have supplier-specific emission factors?	Ν

Emissions Summary

Guidance

The total GHG emissions from each source category are provided below. You may also use this summary sheet to fill out the *Annual GHG Inventory Summary and Goal Tracking Form* (.xls) as this calculator only quantifies one year of emissions at a time.

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https://www.epa.gov/climateleadership/target-setting

By entering the data below into the appropriate cell of the *Annual GHG Inventory Summary and Goal Tracking Form,* you will be able to compare multiple years of data.

If you have multiple Calculator files covering sub-sets of your inventory for a particular reporting period, sum each of the emission categories (e.g. Stationary Combustion) to an organizational total, which then can be entered into the *Annual GHG Inventory Summary and Goal Tracking Form*.

(A) Enter organization information into the orange cells. Other cells on this sheet will be automatically calculated from the data entered in the sheets in this workbook. Blue cells indicate required emission sources if applicable. Green cells indicate scope 3 emission sources and offsets, which organizations may optionally include in its inventory.

(B) The "Go To Sheet" buttons can be used to navigate to the data entry sheets.

Organizational Information:	
Organization Name:	PeopleTec
Organization Address:	4901-I Corporate Dr Huntsville, AL 35805
Inventory Reporting Period:	Q4 2021 - Q2 2023 Start: 9/21/2021 End: 06/31/23
Name of Preparer: Phone Number of Preparer:	Brannen Kerbo (256) 319-3826
Date Prepared:	7/20/2023

Summary of Organization's Emissions:

Scope 1 Emissio	ns
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Go To Sheet	Stationary Combustion	171,279	CO ₂ -e (metric tons)
Go To Sheet	Mobile Sources	0	CO ₂ -e (metric tons)
Go To Sheet	Refrigeration / AC Equipment Use	117	CO ₂ -e (metric tons)
Go To Sheet	Fire Suppression	0	CO ₂ -e (metric tons)
Go To Sheet	Purchased Gases	0	CO ₂ -e (metric tons)

Location-Based Scope 2 Emissions

Go To Sheet	Purchased and Consumed Electricity	1,195	CO ₂ -e (metric tons)
Go To Sheet	Purchased and Consumed Steam	0	CO ₂ -e (metric tons)

Market-Based Scope 2 Emissions

Go To Sheet	Purchased and Consumed Electricity	0	CO ₂ -e (metric tons)
Go To Sheet	Purchased and Consumed Steam	0	CO ₂ -e (metric tons)

Total organization Emissions

Total Scope 1 & Location-Based Scope 2	172,591 CO ₂ -e (metric tons)
Total Scope 1 & Market-Based Scope 2	171,396 CO ₂ -e (metric tons)

Reductions

Go To Sheet	Offsets
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Net Scope 1 and 2 Location-Based Emissions	172,591	CO ₂ -e (metric tons)
Net Scope 1 and 2 Market-Based Emissions	171,396	CO ₂ -e (metric tons)

Scope 3 Emissions

Go To Sheet	Employee Business Travel	0	CO ₂ -e (metric tons)
Go To Sheet	Employee Commuting	0	CO ₂ -e (metric tons)
Go To Sheet	Upstream Transportation and Distribution	0	CO ₂ -e (metric tons)
Go To Sheet	Waste	0	CO ₂ -e (metric tons)

Required Supplemental Information

Go To Sheet	Biomass CO ₂ Emissions from Stationary Sources	0 CO ₂ -e (metric tons)
Go To Sheet	Biomass CO ₂ Emissions from Mobile Sources	0 CO ₂ -e (metric tons)

0 CO₂-e (metric tons)

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Scope 1 Emissions from Stationary Combustion Sources

Guidance

(A) Enter annual data for each combustion unit, facility, or site (by fuel type) in ORANGE cells on **Table 1**. Example entry is shown in first row (*GREEN Italics*).

- Select "Fuel Combusted" from drop down box.

- Enter "Quantity Combusted" and choose the appropriate units from the drop down box in the unit column. If it's necessary to convert units, common heat contents can be found on the "Heat Content" sheet and unit conversions on the "Unit Conversion" sheet.

(B) If fuel is consumed in a facility but stationary fuel consumption data are not available, an estimate should be made for completeness. See the "Items to Note" section of the Help sheet for suggested estimation approaches.

(C) Biomass CO₂ emissions are not reported in the total emissions, but are reported separately at the bottom of the sheet.

Table 1. Stationary Source Fuel Combustion

Source ID	Source Description	Source Area (sq ft)	Fuel Combusted	Quantity Combusted	Units
BLR-012	East Power Plant	12.517	Natural Gas	10.000	MMBtu
Blda-C		29.822	Natural Gas Natural Gas	<i>10,000</i> 412,104	MMBtu
BLR-012 Bldg-C Bldg-D		31.879	Natural Gas	829,496	MMBtu
Bldg-A		29,822	Natural Gas	594,616	MMBtu
Bldg-l		31,879	Natural Gas	528,511	MMBtu
Bldg-B		29,822	Natural Gas	859,984	MMBtu
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GHG Emissions

Total Organization-Wide Stationary Source Combustion by Fuel Type

Fuel Type	Quantity Combusted	Units
Anthracite Coal	0	short tons
Bituminous Coal	0	short tons
Sub-bituminous Coal	0	short tons

Lignite Coal	0	short tons
Natural Gas	3,142,993,391	scf
Distillate Fuel Oil No. 2	0	gallons
Residual Fuel Oil No. 6	0	gallons
Kerosene	0	gallons
Liquefied Petroleum Gases (LPG)	0	gallons
Wood and Wood Residuals	0	short tons
Landfill Gas	0	scf

Total Organization-Wide CO_2 , CH_4 and N_2O Emissions from Stationary Source Fuel Combustion

Fuel Type	CO ₂ (kg)	CH4 (g)	N ₂ O (g)
Anthracite Coal	0.0	0.0	0.0
Bituminous Coal	0.0	0.0	0.0
Sub-bituminous Coal	0.0	0.0	0.0
Lignite Coal	0.0	0.0	0.0
Natural Gas	171,104,560.2	3,237,283.2	314,299.3
Distillate Fuel Oil No. 2	0.0	0.0	0.0
Residual Fuel Oil No. 6	0.0	0.0	0.0
Kerosene	0.0	0.0	0.0
Liquefied Petroleum Gases (LPG)	0.0	0.0	0.0
Total Fossil Fuel Emissions	171,104,560.2	3,237,283.2	314,299.3
Wood and Wood Residuals	0.0	0.0	0.0
Landfill Gas	0.0	0.0	0.0
Total Non-Fossil Fuel Emissions	0.0	0.0	0.0
Total Emissions for all Fuels	171,104,560.2	3,237,283.2	314,299.3

Total CO ₂ Equivalent Emissions (metric tons) - Stationary Combustion	171,279.2
Total Biomass CO ₂ Equivalent Emissions (metric tons) - Stationary Combustion	0.0

Help

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Scope 1 Emissions from Refrigeration and Air Conditioning Equipment

Guidance

- (A) HFC, PFC, CO₂, and SF₆ refrigerants from facilities and vehicles are required to be included in the GHG inventory. Ozone depleting substances, such as CFCs and HCFCs, are regulated internationally and are typically excluded from a GHG inventory or reported as a memo item.
- (B) Select ONE of the three options with which to estimate emissions. Options range from most preferred method (Option 1) to least preferred method (Option 3). If option 3, screening method, is used and emissions are determined to be significant when compared to other emission sources, then one of the other methods should be applied to calculate emissions more accurately.
- (C) Enter annual data in ORANGE cells as appropriate for the selected option.

Option 1. Material Balance Method: Enter organization-wide total gases stored and transferred (by gas) in Table 1.

- Choose the appropriate gas from the Gas drop down menu.
- Inventory Change = difference of gas stored in inventory from beginning to end of reporting period.
- (Includes only gas stored on-site (i.e. cylinders) and not gas contained within equipment).
- Transferred Amount = gas purchased minus gas sold/disposed during reporting period.
 Gas purchased includes: Purchases for inventory, as part of equipment servicing (not from inventory), within purchased equipment, and gas returned to the site after off-site recycling.
 - -- Gas sold/disposed includes: Returns to supplier, sales or disposals (including within equipment), and gas sent off-site for recycling, reclamation, or destruction.
- Capacity Change = capacity of all units at beginning minus capacity of all units at end of reporting period. (can be assumed to be capacity of new units minus capacity of retired units).

Gas	Gas GWP	Inventory Change (Ib)	Transferred Amount (lb)	Capacity Change (Ib)	CO ₂ Equivalent Emissions (Ib)

Table 1. Organization-Wide Refrigeration Gas CO₂ Equivalent Emissions - Material Balance

Option 2. Material Balance Method (Simplified): Enter organization-wide total gases in units (by gas) in Table 2.

- Choose the appropriate gas from the drop down menu.
- New units are those installed during reporting period (do not include any data for new units pre-charged by supplier), disposed units were disposed of during the reporting period, and existing units are all others.
- Charge/Recharge = gas added to units by organization or a contractor (do not include pre-charge by manufacturer).
- Capacity = sum of the full capacity for all units (do not include new units pre-charged by manufacturer).
- Amount recovered = total gas recovered from all retired units.

Table 2. Organization-Wide Refrigeration Gas CO₂ Equivalent Emissions - Simplified Material Balance

Gas	Gas	New	Units	Existing Units	Disposed	CO ₂ Equivalent	
	GWP	Charge (lb)	Capacity (lb)	Recharge (Ib)	Capacity (lb)		

Option 3. Screening Method: Enter refrigerant information for each unit or group of units (by refrigerant) in **Table 3.**

- Select the "Type of Equipment" (closest available) and "Gas" from the drop down box.
- Enter amount of refrigerant added to new units by the organization (not pre-charged amount from manufacturer).
- Enter refrigerant capacity (by equipment type and refrigerant) for all units operating and disposed during reporting period.
 - -- For each unit added or removed during reporting period, multiply its capacity by a usage factor (0.0 to 1.0). For example, if the equipment was installed in June, multiply by 0.5 or (6/12), if it was installed in
 - September you would multiply by 0.33 (4/12).
 - -- If data entered for multiple units, sum the capacities or charge quantity for all like units.
- -- If capacity of unit(s) is not known, use upper value of default capacity provided in the **Reference Table** below.
- See example entry in first row (GREEN Italics).

Table 3. Source Level Refrigeration Gas CO2 Equivalent Emissions - Screening Method

Source ID	Type of Equipment	Gas	Gas	New Units	Capaci	CO ₂	
			GWP Charge (kg)		Operating Units (kg)	Disposed Units (kg)	Equivalent Emissions (kg)
Bldg-012	Domestic Refrigeration	HFC-32	675		0.5	0.25	6,792.2
Bldg- D	Residential/Commercial A/C	R-410A	2,088	6.4	50.8	21.7	17,989.2
Bldg- I	Residential/Commercial A/C	R-410A	2,088		50.8	31.7	21,386.8
Bldg- A	Residential/Commercial A/C	R-410A	2,088		50.8	45.3	25,930.2
Bldg- C	Residential/Commercial A/C	R-410A	2,088	9.1	50.8	45.3	25,930.2
Bldg- B	Residential/Commercial A/C	R-410A	2,088	9.1	50.8	45.3	25,930.2

Reference Table: Type of Equipment and Default Capacity Ranges (Lower to Upper Range) for Table 3

Domestic Refrigeration	Domestic refrigeration units (capacity 0.05 to 0.5 kg)
Stand-Alone Commercial	Stand alone commercial applications (capacity 0.2 to 6 kg)
Medium/Large Commercial	Medium and large commercial refrigeration units (capacity 50 to 2,000 kg)
Transport Refrigeration	Transportation refrigeration units (capacity 3 to 8 kg)
Industrial Refrigeration	Industrial, food processing and cold storage units (capacity 10 to 10,000 kg)
Chillers	Commercial chillers (default capacity 10 to 2,000 kg)
Residential/Commercial A/C	Residential and commercial units, including heat pumps (capacity 0.5 to 100 kg)
Car A/C Units	Passenger car A/C units (capacity 0.5 kg)

Light-duty truck A/C units (capacity 1.5 kg)

GHG Emissions

Light-Duty Truck A/C Units

Total CO₂ Equivalent Emissions (metric tons) - Refrigeration and AC Equipment

Notes:

- 1. CO2 emissions estimated using emission factors provided in Table 3 of the Center for Corporate Climate Leadership Greenhouse Gas Inventory Guidance Direct Fugitive Emissions from Refrigeration, Air Conditioning, Fire Suppression and Industrial Gases. (Dec 2020).
- 2. GWPs are from Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (2007).

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Help - Market-Based Method

Help

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Scope 2 Emissions from Purchase of Electricity

Guidance

The Indirect Emissions from Purchased Electricity Guidance document provides guidance for quantifying two scope 2 emissions totals, using a **location-based method** and a **market-based method**. The organization should quantify and report both totals in its GHG inventory. The location-based method considers average emission factors for the electricity grids that provide electricity. The market-based method considers contractual arrangements under which the organization procures electricity from specific sources, such as renewable energy.

(A) Enter total annual electricity purchased in kWh and each eGRID subregion for each facility or site in ORANGE cells of **Table 1**.

(B) If electricity consumption data are not available for a facility, an estimate should be made for completeness.

See the "Items to Note" section of the Help sheet for suggested estimation approaches.

(C) Select "eGRID subregion" from drop box and enter "Electricity Purchased."

- Use map (Figure 1) at bottom of sheet to determine appropriate eGRID subregion. If subregion cannot be determined from the map, find the correct subregion by entering the location's zip code into EPA's Power Profiler:

https://www.epa.gov/egrid/power-profiler#/

(D) See the market-based emission factor hierarchy on the market-based method Help sheet. If any of the first four types of emission factors are applicable, enter the factors in the yellow cells marked as "<enter factor>". If not, leave the yellow cells as is, and eGRID subregion factors will be used for market-based emissions.

Example entry is shown in first row (*GREEN Italics*) for a facility that purchases RECs for 100% of its consumption, and therefore has a market-based emission factor of 0.

Tips: Enter electricity usage by location and then look up the eGRID subregion for each location.

If you purchase renewable energy that is less than 100% of your site's electricity, see the example in the market-based method Help sheet.

exam	ple in the market-base	ed method Help	sheet.		Use these cells to enter applicable m						Location-Based			
Table 1. To	otal Amount of Elect	ricity Purchase	ed by eGRID Subregion			Emission Factor	S	Emissions			Emis	ssions		
Source	Source	Source	eGRID Subregion	Electricity	CO ₂	CH ₄	N ₂ O	CO ₂	CH₄	N ₂ O	CO ₂	CH ₄	N ₂ O	
ID	Description	Area (sq ft)	where electricity is consumed	Purchased	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	Emissions	
				(kWh)	(lb/MWh)	(lb/MWh)	(lb/MWh)	(lb)	(lb)	(lb)	(lb)	(lb)	(lb)	
Bldg-012	East Power Plant		HIMS (HICC Miscellaneous)	200,000	0	0	0	0.0	0.0	0.0	228,640.0	22.0	3.4	
Bldg-C	Huntsville Utilities		SRTV (SERC Tennessee Valley)	429,500	0	0	0	0.0	0.0		358,288.8	32.2		
Bldg-D	Huntsville Utilities		SRTV (SERC Tennessee Valley)	678,608	0	0	0	0.0	0.0		566,095.2	50.9	7.5	
Bldg-A	Huntsville Utilities		SRTV (SERC Tennessee Valley)	1,576,461	0	0	0	0.0	0.0		1,315,083.9	118.2	17.3	
Bldg-l	Huntsville Utilities		SRTV (SERC Tennessee Valley)	392,004	0	0	0	0.0	0.0		327,010.0	29.4	4.3	
Bldg-B	Huntsville Utilities	29,822	SRTV (SERC Tennessee Valley)	62,500	0	0	0	0.0	0.0	0.0	52,137.5	4.7	0.7	
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I otal Emiss	ions for All Sources			3,139,074				0.0	0.0	0.0	2,618,615.3	235.4	34.5	

Help - Market-Based Method

Market-Based

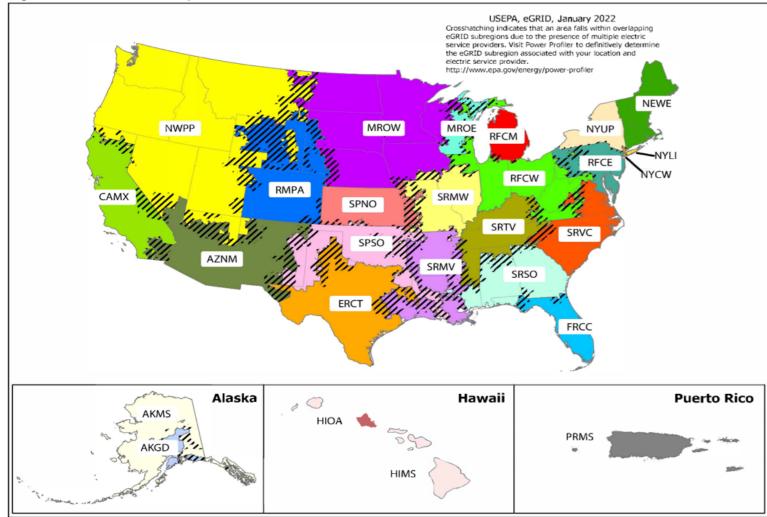
GHG Emissions

CO ₂ Equivalent Emissions (metric tons)	
Location-Based Electricity Emissions	1,195.1
Market-Based Electricity Emissions	0.0

Notes

1. CO₂, CH₄ and N₂O emissions are estimated using methodology provided in EPA's Center for Corporate Climate Leadership Greenhouse Gas Inventory Guidance - Indirect Emissions from Purchased Electricity (January 2016).

Figure 1. EPA eGRID2020, April 2022.



Location-Based