State Agency Greenhouse Gas Emissions Calculator

This calculator is used to determine your agency's annual GHG emissions from building energy use and fleet energy use (vehicles and mobile equipment). The information is gathered annually from state agencies and reported biennially to legislature.

This GHG emissions calculator is due to Department of Ecology by May 29, 2026

- Enter data in yellow fields in the "Report" tab. Verify fuel consumption data using the "Agency Fuel Use" tab.
- Once you have entered your agency's information into the calculator, save your spreadsheet using this naming convention: 2025_[agency acronym]_GHG.xlsx *(example: 2025_ECY_GHG.xlsx)*
- Reference the reporting instructions document for additional information, including how to submit this emissions calculator:

State Agency Greenhouse Gas Emissions Reporting Instructions
Secure Access Washington Guidance for State Agency Greenhouse Gas Reporting

NOTE: The "Emission Reduction Estimates" tab of this spreadsheet is a simple tool for roughly estimating GHG and cost savings from mitigation projects. This tab is available for your agency's internal use and *is not required for reporting or suitable for Climate Commitment Act (CCA) reporting.*

For questions and assistance, contact:
cprsage@ecy.wa.gov

Background for this Report

In 2020, the Legislature and Governor updated the state agency emission limits, recodified in RCW 70A.45.050. The emissions reporting program is a critical part of Washington State's efforts to meet the greenhouse gas emissions limits for state agencies:

- 15% below 2005 levels by 2020
- 45% below 2005 levels by 2030
- 70% below 2005 levels by 2040
- 95% below 2005 levels by 2050, achieve net zero

State agency reporting requirements:

- Report estimated greenhouse gas emissions from agency operations annually to the Department of Ecology by completing and submitting this calculator
- Report greenhouse gas emission reduction strategies to the Department of Commerce's State Efficiency and Environmental Performance (SEEP) Office via the web-form

Resource Links:

Reducing Greenhouse Gas Emissions in Washington State (seventh biennial report)
Department of Ecology's State Agency Greenhouse Gas Reporting webpage
Department of Commerce's State Efficiency and Environmental Performance (SEEP) webpage
Department of Enterprise Services's Facilities and Leasing Management - Energy Program webpage
Energy Star Portfolio Manager

2026 Calculator Updates

Report

- Select the agency name from the menu drop down
- Added questions about conditioned space details (building energy use)
- Agency fuel use for DES leased and permanently assigned vehicles is automatically filled in (data from AssetWorks fleet management system); see the "Agency Fuel Use" tab and the reporting instructions document for more information
- New question about reporting additional fuel for motor vehicles (select yes/no from the drop down menu)
- Updated the biofuels percentage for diesel at WSDOT fueling stations (CY 2025)
- Added questions about electric vehicle chargers and tracking electricity consumption (fleet energy use)
- New data entry cells for landscape equipment, off-road equipment, etc., that is otherwise not reported previously
- Changed the additional notes boxes to notable assumptions/data anomalies text boxes

Agency Fuel Use

- Updated fuel use for CY 2025

Reference

- Updated the WA State Avg Retail Mix 3-year average
- Added WA Statewide GHG Emissions Factors for Electricity (2022-2024) table
- Updated electricity prices
- Updated energy and fuel prices for 2025
- Added new emissions factors for fleet boats (4-stroke engines) and ferries

Emission Reduction Estimates

- No changes to calculations
- Updated electricity and fossil fuel prices

Historic Data and Limits

- Added reported emissions from 2024
- Updated reported emissions relative to future emission limits

Enter agency data for calendar year 2025 in the yellow fields below.

2026 reporting of calendar year 2025 data is due by May 29, 2026.

Section 1: Agency Information

Agency Name	
Date Completed	
GHG Reporter Name	
GHG Reporter Email	
GHG Reporter Phone Number	
Name of Agency Approver	
Approver Email	

Please describe changes or updates in this box from your previous emissions report, if any.

Section 2: Building Energy Use

Enter information about stationary fuel sources (including natural gas, fuel oil, and other fuels) and purchased electricity and steam into yellow cells. Include all electricity purchased, including electricity purchased from green contracts. Data should align with Energy Star Portfolio Manager.

Conditioned Space Details - heated or cooled using electricity, natural gas, or other forms of energy

		share of bldg. ownership
Agency owned space (sq. ft.)		0%
Space leased in a DES owned building (sq. ft.)		0%
Space leased from another state agency (sq. ft.)		0%
Space leased in a privately owned building (sq. ft.)		0%
Total conditioned space (sq. ft.)	-	

Additional information?

Did your agency increase/decrease square footage of space from last year? If so, by how much?

Reason(s) for increase/decrease in building square feet from last year? *Examples: agency no longer leases a building; or a new facility was built, etc.*

Does your agency pay for all building energy use reported below? For example, is there electricity that your agency uses that is not included in this report?

Reason(s) that your agency does not pay for all building energy use? *Example: agency leases building space with no access to the electricity data*

Electricity Consumption

Electricity Quantity (kWh)

Purchased Electricity - Standard Utility Retail Electricity

See this note regarding **net metering and RECs**

Annual electricity purchases (kWh)

Notable assumptions/data anomalies?

Purchased Electricity - Green Power Contract

Purchased electricity from green contract (kWh)

Notable assumptions/data anomalies?

Renewable Electricity Production (Agency-owned or on-site, with RECs included)

Electricity generated from solar photovoltaics, wind turbine, microhydro or other renewable power sources (kWh) See comment for definition. RECs must not be sold.

Specify renewable electricity resources here (solar PV, wind, etc.) If kwh production data is not available, please report system design size, estimated energy output and/or energy savings

Specify renewable energy source here.

Thermal Energy Consumption

Stationary Fossil Fuel Combustion

Fuel type **Fuel Quantity**

Natural gas (therms)		Notable assumptions/data anomalies?
Diesel (gallons)		
Propane (gallons)		
Fuel oil (gallons)		
Gasoline (gallons)		

Stationary Renewable Thermal Energy

Renewable thermal space conditioning (examples: geothermal/ground source heat pumps, solar hot water, renewable gas such as biogas or landfill gas, or biomass.) (kBtu, or specify other units)		Specify renewable thermal resource type here (geothermal, biomass, solar thermal, Etc.) If kBtu production data is not available, please report system design size, projected energy savings or other performance info here. >>>

Steam - Fossil Fuel

Purchased Steam (klbs)		Notable assumptions/data anomalies?

Section 3: Fleet Energy Use

Enter information about fleet(s) and mobile equipment owned by the agency or leased from the state motor pool into yellow cells.

Fossil Fuel Consumption

Motor Vehicles

Agency Fuel Use from AssetWorks - Fuel Type	Fuel quantity (gallons)	Biofuel (%)	
Unleaded Gasoline (Agency Fuel Use)	-	0.0%	Refer to the Agency Fuel Use tab
Diesel: Retail purchases (Agency Fuel Use)	-	0.0%	Refer to the Agency Fuel Use tab
Biodiesel: Retail purchases (Agency Fuel Use)	-	2.0%	Refer to the Agency Fuel Use tab

Do you have additional fuel for motor vehicles to report?

Additional Fuel for Motor Vehicles

Fuel type	Fuel quantity (gallons)	Biofuel (%)	
Unleaded Gasoline		0.0%	Notable assumptions/data anomalies?
Diesel: Retail purchases		0.0%	
Diesel: WSDOT fueling stations		64.1%	
Diesel: Bulk purchases		0.0%	
Propane			

Does your agency track electricity consumption for charging electric vehicles (EV) separately of building energy consumption? (Y or N)		Additional information?
What percentage (estimate) of EV chargers have smart meters/networked meters? Include assumptions in the notes box to the right.		What assumptions are included in your estimate? How did you estimate the percentage of smart meters/networked vs. non-networked?

Boats (excluding ferries)

Fuel type	Fuel quantity (gallons)	Biofuel (%)	
Gasoline (4-stroke engines)		0%	Notable assumptions/data anomalies? *Does your agency fleet include boats with 2-stroke engines? Report the fuel for that engine type (if known) here.*
Diesel		0%	

Ferries

Fuel type	Fuel quantity (gallons)	Biofuel (%)	
Diesel		0%	Notable assumptions/data anomalies?

Aircraft

Fuel type	Fuel quantity (gallons)	Biofuel (%)
Aviation gasoline		0%
Jet fuel		0%

Notable assumptions/data anomalies?

Fuel for landscape equipment, off-road vehicles, construction vehicles and equipment, agricultural or other uses not previously reported.

Instructions: Add the equipment type, fuel type, and fuel quantity in each cell. Note this data will not be included in agency-level reports but may be aggregated for a statewide estimate.

Equipment type	Fuel type	Fuel quantity (gallons)

Notable assumptions/ data anomalies?

Extra reporting space (if needed)

Section 4: Fossil GHG Emissions Summary - Excludes biogenic portion of biofuel combustion

			Share of sector CO2e
Total Building Energy Use Emissions	**0.0**	**MT CO_2e**	0%
Total Fossil Fleet Energy Use Emissions	**0.0**	**MT CO_2e**	0%
Total Annual Fossil GHG Emissions	**0.0**	**MT CO_2e**	

Building Energy Use Emissions Details

Emission Sources	CO_2 emissions (MT CO2)	CH_4 emissions (MT CH4)	N_2O emissions (MT N2O)	Total emissions (MT CO2e)	Share of bldgs CO2e
Stationary combustion (all buildings)					0%
Natural gas	-	-	-	-	
Diesel	-	-	-	-	
Propane	-	-	-	-	
Fuel oil	-	-	-	-	
Gasoline	-	-	-	-	
Electricity (all buildings)					0%
Purchased electricity - WA avg mix	-	-	-	-	
Purchased steam (fossil fuel)	-	-	-	-	
Total Building Energy Use	-	-	-	-	

Fleet Energy Use Emissions Details

Emission Sources	CO_2 emissions (MT CO2)	CH_4 emissions (MT CH4)	N_2O emissions (MT N2O)	Total emissions (MT CO2e)	Fossil CO_2 emissions (MT CO2)	Biogenic CO_2 emissions (MT CO2)	Fuel qty w/o biofuel (gal)	Biofuel qty only (gal)	share of fleet fossil CO2e
Motor vehicles									0%
Unleaded Gasoline	-	-	-	-	-	-	-	-	
Diesel: Retail purchases	-	-	-	-	-	-	-	-	
Biodiesel: Retail purchases	-	-	-	-	-	-	-	-	
Diesel: WSDOT fueling stations	-	-	-	-	-	-	-	-	
Diesel: Bulk purchases	-	-	-	-	-	-	-	-	
Propane	-	-	-	-	-		-	-	
Boats (excluding ferries)									0%
Gasoline	-	-	-	-	-	-	-	-	
Diesel	-	-	-	-	-	-	-	-	
Ferries									0%
Diesel	-	-	-	-	-	-	-	-	
Aircraft									0%

Aviation gasoline	-	-	-	-	-		-	-
Jet fuel	-	-	-	-	-		-	-
Total Fleet Emissions from Energy Use	-	-	-	-	-	-	-	-

Agency Fuel Use for 2025

Agency	Bio-Diesel	Diesel: Retail Purchases	Unleaded Gasoline	Total Gallons
Central Washington University			3,036	3,036
Department of Agriculture	60	13,570	148,725	162,355
Department of Children Youth and Families	6	1,772	252,516	254,294
Department of Commerce			250	250
Department of Corrections		4,665	262,212	266,877
Department of Ecology	1	9,356	108,214	117,571
Department of Enterprise Services	14	4,552	41,932	46,499
Department of Fish and Wildlife	1,350	41,892	423,135	466,377
Department of Health		2,877	16,816	19,693
Department of Natural Resources	20		15,372	15,392
Department of Social and Health Services		8,478	146,199	154,677
Department of Transportation			454	454
Department of Veterans Affairs		1,700	21,976	23,676
Eastern Washington University			3,858	3,858
Enterprise Services - TRIP		235	43,546	43,781
Governor's Office				
Highline College		429	1,123	1,552
Labor and Industries	48	1,388	242,196	243,632
Liquor and Cannabis Board		1,213	50,837	52,051
Office of Financial Management		206	481	687
Puget Sound Partnership			84	84
Seattle Community Colleges			769	769
Spokane Colleges				
State Parks and Recreation Commission			7	7
The Evergreen State College			6,541	6,541
University of Washington			1,219	1,219
Washington State Patrol				
Washington State University			782	782
Western Washington University			673	673

Gallons are computations sourced from AssetWorks fleet management system. The values combine Fuel Tickets from both WEX and WSDOT Fuel. If your organization uses other fuel card networks, those are not included in these results.

These results only apply to DES leased and permanently assigned vehicles. If your organization owns and operates other equipment, that fuel usage must be reported in addition to these results.

Instructions:
1) Verify the fuel totals on the "Report" tab, which are automatically added when you select your agency.
2) Select Yes/No if you have additional fuel to report.
3) Add additional fuel for motor vehicles, as applicable.

Note: "Other Fuel" included in the original data file was proportionally added to the diesel and unleaded fuel categories. Total gallons remains unchanged.

Reference Data

Conversion Factors

1000	kg/MT
0.1	MMBtu/therm
2.20462	lb/kg
42	gal/bbl liquid fuel
1000	kWh/MWh
3.412	kBtu/kWh
1.194	MMBtu/klb steam

Stationary Sources

Fuel	CO_2 emission factor (kg CO2/mmBtu)	CO_2 emission factor (MT CO2/therm)	CH_4 emission factor (kg CH4/mmBtu)	CH_4 emission factor (MT CH4/therm)	N_2O emissions factor (kg N2O/mmBtu)	N_2O emission factor (MT N2O/therm)
Natural gas (per scf)	52.91	0.00529	0.001	1.00E-07	0.0001	1.00E-08

Fuel	High heat value (mmBtu/gallon)	CO_2 emission factor (kg CO2/mmBtu)	CO_2 emission factor (MT CO2/gallon)	CH_4 emission factor (kg CH4/mmBtu)	CH_4 emission factor (MT CH4/gallon)	N_2O emissions factor (kg N2O/mmBtu)	N_2O emission factor (MT N2O/gallon)
Diesel (distillate #2)	0.138	74.14	0.0102	0.003	4.14E-07	0.0006	8.28E-08
Propane	0.091	62.88	0.0057	0.003	2.73E-07	0.0006	5.46E-08
Fuel oil	0.138	74.14	0.0102	0.003	4.14E-07	0.0006	8.28E-08
Gasoline (w/o ethanol)	0.125	70.66	0.0088	0.003	3.75E-07	0.0006	7.50E-08

Source: EPA 40 C.F.R Part 98 as adopted in WAC 173-441 https://app.leg.wa.gov/WAC/default

Electricity	CO_2 emission factor (kg CO2/kWh) (=MT CO2e/MWh)	CO_2 emission factor (MT CO2/kWh)	CH_4 emission factor (kg CH4/MWh)	CH_4 emission factor (MT CH4/kWh)	N_2O emissions factor (kg N2O/MWh)	N_2O emission factor (MT N2O/kWh)
Purchased electricity - WA State Avg Retail Mix 3yr avg	0.196	0.000196	0.025	2.54E-08	0.00363	3.63E-09

Steam	CO_2 emission factor (kg CO2/mmBtu)	CO_2 emission factor (MT CO2/klb)	CH_4 emission factor (kg CH4/mmBtu)	CH_4 emission factor (MT CH4/klb)	N_2O emissions factor (kg N2O/mmBtu)	N_2O emission factor (MT N2O/klb)
Purchased steam	66.33	0.07919802	0.00125	1.4925E-06	0.000125	1.4925E-07

Fleets

Fuel	Default high heat value (mmBtu/gallon)	CO_2 emission factor (MT CO2/bbl)	CO_2 emission factor (MT CO2/gallon)	CH_4 emission factor (kg CH4/mmBtu)	CH_4 emission factor (MT CH4/gallon)	N_2O emissions factor (kg N2O/mmBtu)	N_2O emission factor (MT N2O/gallon)
Gasoline	0.125	0.3688	0.0088	0.0030	3.75E-07	0.00060	7.50E-08
Ethanol (E100)	0.084	0.2415	0.0058	0.0011	9.24E-08	0.00011	9.24E-09
Diesel	0.138	0.4288	0.0102	0.0030	4.14E-07	0.00060	8.28E-08
Biodiesel (B100)	0.128	0.3969	0.0095	0.0011	1.41E-07	0.00011	1.41E-08
Propane	0.091	0.2386	0.0057	0.0030	2.73E-07	0.00060	5.46E-08
Aviation gasoline	0.120	0.3490	0.0083	0.0030	3.60E-07	0.00060	7.20E-08
Jet fuel	0.135	0.4095	0.0098	0.0030	4.05E-07	0.00060	8.10E-08
Gasoline (ships and boats, 4-stroke engine)	0.125	0.3688	0.0088	0.0180	2.25E-06	0.00008	1.00E-08
Diesel (ships and boats)	0.138	0.4288	0.0102	0.0464	6.41E-06	0.00123	1.70E-07

Global Warming Potentials (100 yr)

CO_2	1
CH_4	25
N_2O	298

Source: WAC 173-441

Emission Equivalencies

Avg US passenger vehicle driven for 1 year	4.29	MT CO2e	EPA Greenhouse Gas Equivalencies Calculator
Carbon sequestered per acre per year for avg US forest	0.27	MT C	EPA Greenhouse Gas Equivalencies Calculator

Agency Code	Reporters	Agency Abbreviation
3750	Central Washington Universit	CWU
4950	Department of Agriculture	AGR
3070	Department of Children Youth	DCYF
1030	Department of Commerce	COM
3100	Department of Corrections	DOC
4610	Department of Ecology	ECY
1790	Department of Enterprise Ser	DES
4770	Department of Fish and Wildl	DFW
3030	Department of Health	DOH
2350	Department of Labor and Indu	LNI
2400	Department of Licensing	DOL
4900	Department of Natural Resou	DNR
3000	Department of Social and Hea	DSHS
4050	Department of Transportatior	DOT
3050	Department of Veterans' Affa	DVA
3700	Eastern Washington Universit	EWU
0750	Office of the Governor	GOV
6520	Highline College	HC
1950	Liquor and Cannabis Board	LCB
1050	Office of Financial Manageme	OFM
4780	Puget Sound Partnership	PSP
6700	Seattle Community College - I	SCCD-6
6760	Spokane Community College -	SCCD-17
4650	State Parks and Recreation Cc	PARKS
3760	The Evergreen State College	TESC
3600	University of Washington	UW
2250	Washington State Patrol	WSP
3650	Washington State University	WSU
3800	Western Washington Univers	WWU

Electric Utilities	2024 All customers Avg retail price ($/kWh)	2024 Commercial sector avg retail price ($/kWh)
Washington State Average	**$ 0.101**	**$ 0.100**
Avista Corp	.115	.128
Benton Rural Electric Assn	.077	.070
Big Bend Electric Coop, Inc	.075	.083
Bonneville Power Administration	.031	.045
City of Blaine - (WA)	.084	
City of Centralia - (WA)	.101	.117
City of Cheney - (WA)	.075	
City of Chewelah - (WA)	.103	
City of Coulee Dam - (WA)	.070	
City of Ellensburg - (WA)	.088	.077
City of McCleary - (WA)	.150	
City of Milton - (WA)	.117	
City of Port Angeles - (WA)	.072	.079
City of Richland - (WA)	.079	.068
City of Seattle - (WA)	.125	.118
City of Sumas - (WA)	.080	
City of Tacoma - (WA)	.093	.103
Clearwater Power Company	.109	
Columbia Rural Elec Assn, Inc	.095	.104
Elmhurst Mutual Power & Light Co	.083	.083
Inland Power & Light Company	.087	.087
Kootenai Electric Cooperative	.109	.108
Lakeview Light & Power	.093	.094
Modern Electric Water Company	.072	.070
Nespelem Valley Elec Coop, Inc	.095	
Northern Lights, Inc	.120	
Ohop Mutal Light Company, Inc	.087	
Okanogan County Elec Coop, Inc	.109	
Orcas Power & Light Coop	.179	.167
PUD No 1 of Asotin County	.059	
PUD No 1 of Benton County	.073	.069
PUD No 1 of Chelan County	.037	.041

Natural Gas	$/MCF	$/therm	Reference
2024 WA state avg commercial price	$ 10.38	$ 1.00	U.S. EIA Natural Gas Prices

Fuel Prices	$/gal	Prices as of Date	Reference
			U.S. EIA Gasoline and Diesel Fuel Update
Gasoline	$ 4.23	State yearly avg for 2025; all grades and all formulations, retail price	U.S. EIA Weekly Retail Gasoline and Diesel Prices
Diesel	$ 4.42	State daily avg (March 2025)	AAA Fuel Prices
JetA	$ 6.40	Aircraft fuel prices at U.S. airports and FBOs; Northwest Mountain Region, March 2025	Global Air: Aircraft Fuel Prices at U.S. Airports & FBOs
100LL	$ 6.65	Aircraft fuel prices at U.S. airports and FBOs; Northwest Mountain Region, March 2025	Global Air: Aircraft Fuel Prices at U.S. Airports & FBOs
Sustainable Aviation Fuel	$ 8.71	Aircraft fuel prices at U.S. airports and FBOs; Northwest Mountain Region, March 2025	Global Air: Aircraft Fuel Prices at U.S. Airports & FBOs
Heating Oil	$ 2.43	US monthly average, wholesale heating oil, March 2025	U.S. EIA Heating Oil and Propane Update
Propane	$ 1.07	US monthly average, wholesale propane, March 2025	U.S. EIA Heating Oil and Propane Update

WA Statewide GHG Emissions Factors for Electricity	MT CO2e/MWh
2022	0.194929465
2023	0.199199801
2024	0.193171685
3-year average	0.195766984

eGRID NWPP 2023

https://www.epa.gov/egrid/data-explorer

	CH_4 emission factor lb/MWh	N_2O emissions factor lbs/MWh	CH_4 emission factor kg/MWh	N_2O emissions factor kg/MWh
2021 lb/MWh	0.058	0.008	0.026	0.004
2022 lb/MWh	0.056	0.008	0.025	0.004
2022 lb/MWh	0.054	0.008	0.024	0.004
3-year average	**0.056**	**0.008**	**0.025**	**0.004**

PUD No 1 of Clallam County	.112	.097
PUD No 1 of Clark County - (WA)	.092	.085
PUD No 1 of Cowlitz County	.060	.088
PUD No 1 of Douglas County	.037	.039
PUD No 1 of Ferry County	.097	
PUD No 1 of Franklin County	.080	.075
PUD No 1 of Grays Harbor County	.111	.107
PUD No 1 of Jefferson County	.112	.129
PUD No 1 of Kittitas County	.117	
PUD No 1 of Klickitat County	.099	.100
PUD No 1 of Lewis County	.084	.086
PUD No 1 of Mason County	.137	
PUD No 1 of Okanogan County	.091	.080
PUD No 1 of Pend Oreille County	.065	.058
PUD No 1 of Skamania County	.131	
PUD No 1 of Snohomish County	.105	.095
PUD No 1 Wahkiakum County	.099	
PUD No 1 of Whatcom County	.047	
PUD No 2 of Grant County	.045	.044
PUD No 2 of Pacific County	.088	.088
PUD No 3 of Mason County	.125	.103
PacifiCorp	.101	.101
Parkland Light & Water Company	.079	
Peninsula Light Company	.102	.079
Puget Sound Energy Inc	.141	.137
Tanner Electric Coop	.132	
Tesla Inc.	.054	
Town of Eatonville - (WA)	.088	
Town of Ruston - (WA)	.136	
Town of Steilacoom	.115	
Vera Irrigation District #15	.091	.090
Yakama Power	.076	

Emission and Cost Reduction Estimates (Optional)

The "Emission Reduction Estimates" tab of this spreadsheet is a simple tool for roughly estimating GHG and cost savings from mitigation projects. This tab is available for your agency's internal use and *is not required for reporting or suitable for Climate Commitment Act (CCA) reporting.*

NOTE REGARDING ELECTRICITY EMISSIONS FORECAST:

As agencies plan future emission reduction projects, keep in mind that the electricity grid is moving toward carbon neutrality by 2030, making all-electric buildings and vehicles zero GHG emissions. The transformation away from fossil fuels requires that all energy be used as efficiently as possible and remaining energy use come from clean electricity and renewable fuels. This simple calculator **does not include a projection of declining future emissions from electricity** - it holds current emission levels steady into the future.

Resources for state buildings can be found here:
https://des.wa.gov/services/facilities-leasing/energy-program/

How to Use this Calculator

1. Enter the **current annual quantity of fuel** used in the orange cells in the **before** column.
2. Enter the **future quantity of fuel** to be used (after project completion) in the orange cells in the **after** column.
3. If you are using **diesel with a portion of biodiesel** or renewable diesel, put those percentages in the next column.
4. For multiple projects, copy this tab as often as needed.

CAUTION: This sheet is not protected so you can change it as needed. New copies can be found at Ecology's website.

Ideally, the project would add new reductions over a period of time and then end, and either diminish or hold steady from that time forward. This calculator does not include the capacity to model that.

Estimate Emission Reductions

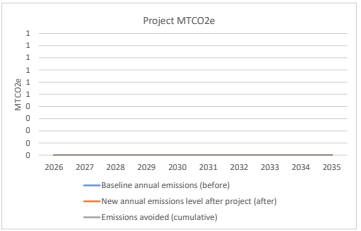
Enter the year project will be installed >>> 2026

Fuel Type	Current Annual Fuel Use (Before): Fuel Quantity	Current Annual Fuel Use (Before): Bio/ Renewable Diesel %	Future Annual Fuel Use (After): Fuel Quantity	Future Annual Fuel Use (After): Bio/ Renewable Diesel %	Annual Emissions Before: CO2e (MT)	Annual Emissions After: CO2e (MT)	Annual CO2e Savings (avoided): CO2e (MT)
Gasoline (gallons per year)					0.0	0.0	0.0
Diesel (gallons per year)					0.0	0.0	0.0
Electricity (kWh					0.0	0.0	0.0
Natural Gas (Therms per year)					0.0	0.0	0.0
Aviation Gasoline (gallons per year)					0.0	0.0	0.0
Fuel Oil (Gallons per year)					0.0	0.0	0.0
Jet Fuel (gallons per year)					0.0	0.0	0.0
Propane (Gallons per year)					0.0	0.0	0.0
Purchased Steam (Million lbs - Mlbs					0.0	0.0	0.0
					0.0	**0.0**	**0.0** <<< MTCO2e saved each year
							0.0 <<< MTCO2e saved (avoided) over 10 years

Projected Emissions

MTCO2 per year	Project Years PY1 2026	PY2 2027	PY3 2028	PY4 2029	PY5 2030	PY6 2031	PY7 2032	PY8 2033	PY9 2034	PY10 2035
Baseline annual emissions (before)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New annual emissions level after project (after)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Emissions avoided (cumulative)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

0.0
0



Estimate Cost Savings

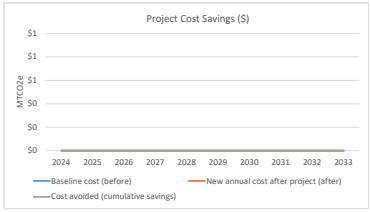
Average utility costs are pre-populated. You may replace it with your own utility data.

Estimate Electricity Savings

	$/kwh	kwh savings (from table above)	Annual Cost Before ($/yr)	Annual Cost After ($/yr)	Annual $ Savings (avoided)($/yr)
Electricity price	$ 0.10	0	$ -	$ -	$ -
Natural Gas	**$/therm**	**therm savings**			
Natural Gas price	$ 1.00	0	$ -	$ -	$ -
Other Fuel Prices	**$/gal**	**gallon savings**			
Gasoline	$ 4.23	0	$ -	$ -	$ -
Diesel	$ 4.42	0	$ -	$ -	$ -
Aviation Gasoline	$ 6.65	0	$ -	$ -	$ -
Heating Oil	$ 2.43	0	$ -	$ -	$ -
Jet Fuel	$ 6.40	0	$ -	$ -	$ -
Propane	$ 1.07	0	$ -	$ -	$ -
Purchased Steam (Million lbs - Mlbs) (enter your own value)		0	$ -	$ -	$ -
			0.0	**0.0**	**$ -** <<< $ saved each year
					$ - <<< $ saved over 10 years

Projected Cost Savings

$ Savings	Project Years PY1 2026	PY2 2027	PY3 2028	PY4 2029	PY5 2030	PY6 2031	PY7 2032	PY8 2033	PY9 2034	PY10 2035
Baseline cost (before)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
New annual cost after project (after)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Cost avoided (cumulative savings)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -



Additional Tools and Resources:

Your project reduced the equivalent amount as:

- passenger vehicles driven for one year
- acres of U.S. forest sequestration in one year

More GHG equivalencies here: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator
EPA Avoided Emissions Calculator: https://www.epa.gov/avert/avert-web-edition
More on quantifying benefits of efficiency and renewables: https://www.epa.gov/statelocalenergy/quantifying-multiple-benefits-energy-efficiency-and-renewable-energy-guide-state

Units: MT CO2e

Reporters	2005	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2020 Limit: 15% below 2005	2024 MTCO2e relative to 2020 limit	2030 limit: 45% below 2005	2024 % over 2030 limit	MT reductions needed to meet 2030 limit (MT)	2040 limit: 70% below 2005	MT reductions needed to meet 2040 limit (MT)	2050 limit: 95% below 2005	MT reductions needed to meet 2050 limit (MT)
Central Washington University	**21,303**	20,010	*20,010*	*20,010*	22,171	21,993	21,106	*24,960*	*24,960*	24,035	23,779	19,338	21,082	23,794	22,767	21,726	18,108	20%	11,717	85%	10,010	6,391	15,335	1,065	20,661
Department of Aericulture	**1.800**	1.800	1.800	1.739	1.649	1.960	2.324	2.388	1.868	1.957	1.760	1.472	1.707	1.496	1.841	1.995	1.530	30%	990	102%	1.005	540	1.455	90	1.905
Department of Children, Youth and Families														3,763	6,052	6,310	-		-			-		-	
Department of Commerce					506	483	425				373	1,440	267	237	245	156	-		-			-		-	
Department of Corrections	**90.279**	77.409	71.956	69.772	75.266	78.200	71.768	71.736	71.895	71.933	63.146	44.999	49.574	50.886	63.146	61.220	76.737	-20%	49.653	23%	11.566	27.084	34.136	4.514	56.706
Department of Ecology	**4,677**	4,542	4,016	3,710		3,371	3,344	3,543	3,416	2,771	2,656	1,850	2,388	3,268	2,352	2,466	3,975	-38%	2,572	-4%	-106	1,403	1,063	234	2,232
Deoartment of Enterprise Services	**22.946**	21.097	24.978	*24.978*	21.429	21.429	19.925	17.386	17.843	13.300	14.441	13.409	6.288	6.635	7.951	7.362	19.504	-62%	12.620	-42%	-5.259	6.884	478	1.147	6.214
Department of Fish and Wildlife	**14,964**	12,634	10,463	11,136	12,570	12,957	12,912	8,969	9,223	9,440	9,211	8,110	12,838	12,486	14,037	13,702	12,719	8%	8,230	66%	5,472	4,489	9,213	748	12,954
Department of Health	**8,131**	*8,131*	*8,131*	*8,131*			6,239	5,696	6,385	2,013	1,831	1,149	1,098	1,525	1,532	1,499	6,911	-78%	4,472	-67%	-2,973	2,439	-941	407	1,092
Department of Natural Resources	**10.518**	9.544	8.911	10.833	10.057	10.249	9.987	10.180	9.958	9.878	10.086	9.336	11.425	10.027	11.406	11.853	8.940	33%	5.785	105%	6.068	3.155	8.697	526	11.327
Department of Social and Health Services	**54,833**	53,644	*53,544*	*53,544*	47,210	46,965	38,108	38,723	40,217	39,214	36,032	34,437	31,509	34,241	41,516	40,747	46,608	-13%	30,158	35%	10,589	16,450	24,297	2,742	38,005
Department of Veteran Affairs	**5.265**	5.169	5.550										15.029	6.043	6.103	5.950	4.475	33%	2.896	105%	3.054	1.580	4.370.02	263	5.686
Department of Transportation	**241,893**	247,977	237,191	236,565	234,910	235,046	233,882	249,659	250,958	243,718	246,383	193,869	202,298	194,354	189,327	186,527	205,609	-9%	133,041	40%	53,485	72,568	113,959	12,095	174,432
Eastern Washington University	**20,841**	*20,841*	*20,841*	*20,841*	*20,841*	23,123	*23,123*	26,310	21,006	20,137	18,775	18,925	20,772	19,769	19,627	17,531	17,715	-1%	11,463	53%	6,068	6,252	11,278	1,042	16,489
Evereeen State Colleae	**9.454**	8.356	8.407	*8.407*	7.947	*7.947*	7.305	4.855	5.326	5.069	5.017	3.777	6.354	7.415	6.798	7.677	8.036	-4%	5.200	48%	2.477	2.836	4.841	473	7.204
Labor and Industries	**5,402**	5,378	4,049	3,978	2,402	4,678	4,437	5,436	5,070	4,775	4,377	3,646	4,126	4,377	2,848	3,127	4,592	-32%	2,971	5%	156	1,621	1,506	270	2,857
Liquor and Cannabis Board	**4.842**	5.211	8.907	5.349	1.144	741	955	981	1.057	972	987	532	622	633	650	604	4.116	-85%	2.663	-77%	-2.059	1.453	-849	242	362
Office of Financial Management												108	134	148	128	23	-		-			-		-	
Puget Sound Partnership													0.5	1.8	1	1	-		-			-		-	
Seattle Community Colleae	**9.233**	11.049	9.761	9.192	9.581	9.414	8.746	3.064	3.556	4.238	3.937	6.291	6.685	7.201	7.404	7.527	7.848	-4%	5.078	48%	2.449	2.770	4.758	462	7.066
Spokane Community College	**9,599**	8,599	9,599	9,599	5,511	13,215	*9,478*	13,216	9,478	8,828	8,575	7,922	7,997	8,544	7,908	8,237	8,159	1%	5,279	56%	2,957	2,880	5,357	480	7,757
State Parks and Recreation Commission	**8.802**	9.473	9.489	7.343	8.216	6.105	6.837	6.851	6.794	8.323	6.267	5.788	6.788	6.972	7.720	7.367	7.482	-2%	4.841	52%	2.526	2.641	4.726	440	6.927
Universitv of Washinaton	**156.861**	156.965	136.477	138.342	150.766	155.913	156.518	165.267	163.853	174.106	156.563	95.667	99.096	99.741	89.820	153.461	133.332	15%	86.274	78%	67.187	47.058	106.403	7.843	145.618
Washington State Patrol	**49,781**	*49,781*	37,267	53,721	20,695	21,652	21,739	19,863	20,390	19,691	20,476	19,268	19,851	18,217	18,887	18,012	42,314	-57%	27,380	-34%	-9,368	14,934	3,078	2,489	15,523
Washinaton State Universitv	**109.873**	107.047	99.594	99.087	109.060	118.839	119.116	120.015	128.633	119.578	124.934	116.331	120.513	132.453	132.482	110.011	93.392	18%	60.430	82%	49.581	32.962	77.049	5.494	104.518
Western Washington University	**19,539**	21,476	21,085	21,465	23,142	23,355	15,301	15,513	*22,821*	17,328	17,114	15,150	11,053	13,721	12,907	13,409	16,608	-19%	10,746	25%	2,662	5,862	7,547	977	12,432