How to Submit a 1.5% Green Energy Technology (GET) Report

Welcome to the Oregon Department of Energy's reporting program for 1.5% for Green Energy Technology. In 2007, the Oregon legislature passed HB 2620, established the requirement for a public body to incorporate green energy technology (GET) in public improvement projects. Public entities include, but are not limited to, state agencies, community colleges, school districts and education service districts, and local governments. Under ORS 352.138, the 1.5% GET requirements do not apply to the seven Oregon public universities listed in ORS 352.002. See the Administrative Rules for more information.

ORS279C.527(1)(b)(A) "Public Building" means a building that a public body, as defined in ORS 174.109, owns or controls, and that is:

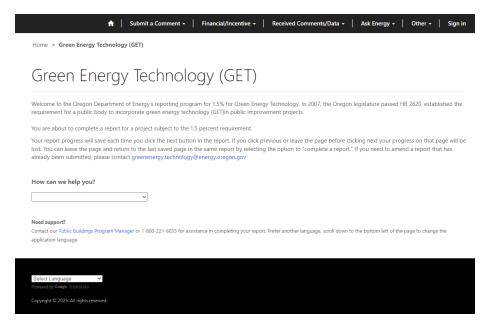
- (i) Used or occupied by employees of the public body; **or**
- (ii) Used for conducting public business

Accessing the Green Energy Technology Reporting Portal

If this is your first time reporting a project, the first step is to register for a new portal account on the Oregon Department of Energy's Green Energy Technology (GET) Reporting Portal. To do so, you can start with our reporting page:

1.5% for GET Reporting Database (https://odoe.powerappsportals.us/en-US/get/)

This link will take you directly to the Reporting Portal front page:



At the drop down, "How can we help you?"



How can we help you?

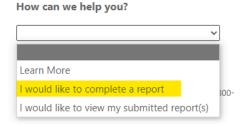


If you click on "Learn More" it will take you to the 1.5% for Green Energy Technology web page by Oregon Department of Energy where you can learn more about this program.

"I would like to complete a report" will take you to the place to complete the report for the 1.5% Green Energy Technology. (We will have screen shots of this below.)

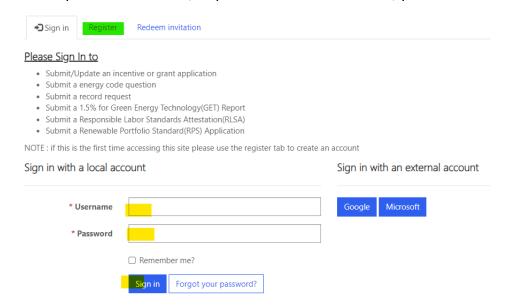
"I would like to view my submitted report(s)" will take you to the list of report(s) you have already submitted. This list will include any report(s) that you have partially completed.

How to complete the Report



From the above drop-down menu, click on "I would like to complete a report".

If this is your first time here, or you haven't been in a while, you will land on the following page:





1. If you have account – Sign in with your username and password. Click Sign In.

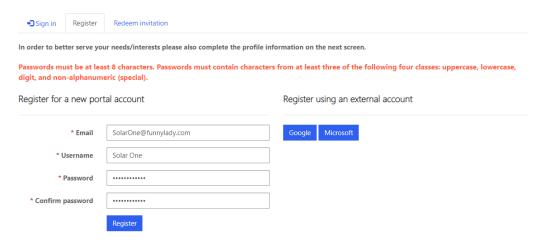
This will take you to this page:

1.5% for Green Energy Technology (GET) > 1.5% for Green Energy Technology (GET) in Public Buildings

1.5% for Green Energy Technology (GET) in Public Buildings

This is the form to fill out and the instructions will continue where you see the yellow highlighted Title Page as shown above.

2. If you have never been here before - click the Register tab and we will take you through the registration process below:



Enter Email, Username, Password and Confirm that Password. Click Register.

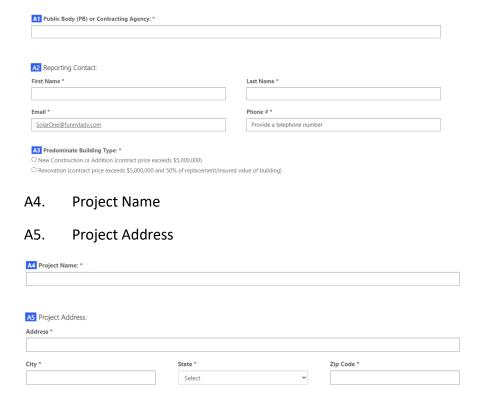
This will take you to the Form that needs to be filled out, and you are now ready to enter in the information for the project.

After successfully logging in, there are multiple pathways for compliance in the 1.5% Green Energy Technology program, and the information needed to complete a project report depends on the project's compliance pathway. However, some information is common across all projects. The following items are needed for reporting across all 1.5% GET projects:

- A1. Public Body (PB) or Contracting Agency (330-135-0015(3) (3) "Contracting agency" means a public body as defined in ORS 174.109 that plans to enter into a public improvement contract for the construction, reconstruction or major renovation of a public building.
- A2. Reporting Contact's Information



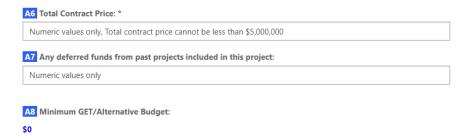
A3. Building Type: New construction or Renovation



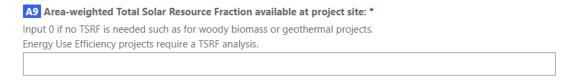
- A6. Enter the Total Contract Price: "Total contract price" has the definition given in ORS 279C.527 (also 330-135-0015 (17)). (17) "Total contract price" has the definition given in ORS 279C.527 and means all of the costs a contracting agency anticipates incurring in all contracts and subcontracts involved in constructing, reconstructing or performing a major renovation of a public building including design or architecture, engineering, transportation or environmental impact assessment and planning, construction management, labor, materials, land surveying and site preparation, demolition, hazardous material removal, required reinforcements or improvements to existing structures or appurtenant infrastructure, insurance, inspections and certifications and, except as provided in this paragraph, other costs the contracting agency would not incur but for the construction, reconstruction or major renovation of the public building. "Total contract price" does not include:
- (a) Costs of advertising, soliciting, evaluating bids or proposals for or awarding a public contract;
- (b) Costs of moving contracting agency employees, equipment and furnishings from and to a public building;
- (c) Costs of locating, renting or leasing and preparing to occupy alternative facilities;
- (d) Ordinary operating costs for a public building during periods of reconstruction or renovation;
- (e) Costs of storing equipment or furnishings at a site away from a public building;



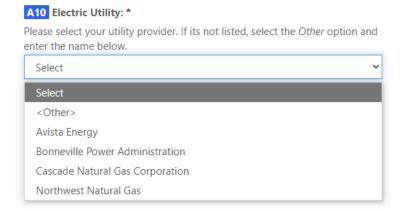
- (f) Labor costs for employees of a contracting agency;
- (g) Direct costs that are solely for the purpose of retrofitting or improving a public building's ability to withstand a seismic event; and
- (h) Costs that bear only a tenuous relationship to the construction, reconstruction or major renovation of a public building.
- A7. Any deferred funds from a past project.
- A8. This will populate on its own by the calculation of the 1.5% for Green Energy Technology Budget needed for your project.



A9. Enter the Area-weighted Total Solar Resource Fraction available at project site: <u>330-135-0015</u> (18) "Total solar resource fraction" (TSRF) means the percent of energy produced by a fixed axis solar energy system when compared to the annual performance of the same system with optimal tilt and orientation and no external shading.

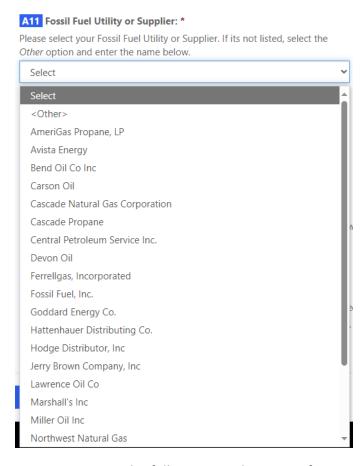


A10. Select Utility or <other>





A11. Select the Fossil Fuel Utility or Supplier or <other>



A12. Entering the following combination of answers here will take you to the instructions below, click on the hyperlink that matches your pathway:

GET is appropriate -> and will be installed on site -> without alternatives

(Informative note: this is by far the most common 1.5% GET pathway).

GET is appropriate -> and will be installed on site -> along with woody biomass (as allowed, up to 50% of the required expenditure).

GET is appropriate -> and will be installed on site -> along with energy use efficiency measures (as allowed, up to 50% of the required expenditure).

GET is appropriate -> and will be installed off site.

GET is appropriate -> and installation will involve the consolidation of multiple public buildings with GET requirements into one public building that is part of the same project.

GET is not appropriate -> either on site or off site -> and energy use efficiency will be used as an alternative on site.



GET is not appropriate -> either on site or off site -> and energy use efficiency will be used as an alternative off site.

GET is not appropriate -> either on site or off site -> and woody biomass technology will be used as an alternative on site.

<u>GET is not appropriate -> either onsite or off site -> and woody biomass technology will be used as an</u> alternative off site.

<u>GET is not appropriate -> either on site or off site -> and alternatives have also been determined to be inappropriate.</u>

GET is appropriate... and will be installed on site... without alternatives. OR

GET is appropriate... and will be installed on site... along with woody biomass (as allowed, up to 50% of the required expenditure).

G1. Type of Green Energy Technology: If your selection includes Passive Solar you can review <u>OAR 330-135-0030</u> for more information.

OAR 330-135-0030 Green Energy Technology Performance Requirements

- (1) Solar electric (photovoltaic), solar water heating, solar pool heating, and active solar space heating systems are to be installed in locations that have a total solar resource fraction (TSRF) of 75 percent or more.
- (2) Photovoltaic and geothermal electric systems must be separately metered to record electricity production.
- (3) Geothermal systems that directly supply heat to the building system(s), passive solar thermal systems, daylighting systems or any combination thereof must jointly reduce the building's energy use by 10 percent or more, as demonstrated with whole building energy modeling prepared under the direction of a licensed professional engineer.
- (a) For local or special government bodies, the baseline and proposed buildings must be modeled according to the requirements of the 2019 Energy Code.
- (b) For state government bodies, the baseline and proposed buildings must be modeled according to the requirements of the Proposed Building as defined in the State Energy Efficient Design (SEED) Guidelines.
- (c) The model for the proposed geothermal systems supplying heat to the building system(s), passive solar thermal systems, daylighting systems or any combination thereof must only include differences that are directly attributable to the geothermal heating system, passive solar thermal systems or



daylighting systems. Lighting, HVAC and other equipment efficiencies, etc., must be identical between the baseline and proposed models.

- (d) The system(s) must be commissioned by a third-party commissioning agent.
- (4) Purchase of renewable energy certificates does not constitute compliance with the requirements of ORS 279C.527 through 279C.528 and Oregon Laws 2019, chapter 160 (HB 2496).

You need to Select All you are using:

- 1. Active Solar (photovoltaics)
- 2. Passive Solar (passive elements are required to reduce whole building energy use by 10%)
- 3. Solar Thermal (water heating)
- 4. Geothermal (ground source heat pumps do not qualify)
- 5. Battery Storage



- G2. Detailed description of proposed Green Energy Technology
- G3. Actual amount spent on eligible GET costs OAR 330-135-0035

Eligible Green Energy Technology Costs

- (1) For photovoltaic systems, eligible costs include the photovoltaic modules, racking system, mounting structure and hardware, modifications to the building structure specifically to accommodate the solar energy system, associated electrical equipment, battery storage equipment and technology, metering, labor and system commissioning. Specific elements that do not qualify as eligible costs include, but are not limited to, the following:
- (a) Costs for auxiliary distribution systems such as chargers in electric vehicle charging stations.
- (b) Costs for reroofing.
- (2) For building integrated photovoltaic (BIPV) systems, eligible costs include the difference between the costs for the BIPV components and the costs of the conventional building components that are modified or replaced to accommodate the installation of the BIPV system components.



- (3) For solar water heating and solar pool heating systems, eligible costs include the solar collectors, mounting structure and hardware, associated plumbing and controls, metering, labor, and system commissioning. Costs for backup systems that use conventional energy sources do not qualify.
- (4) For active solar space heating systems, eligible costs include the solar collectors, mounting structure and hardware, associated plumbing and controls, metering, labor, and system commissioning. Costs for heat distribution systems, such as ductwork or radiant floors, or costs for backup systems that use conventional energy sources, do not qualify.
- (5) For passive solar systems and daylighting systems, eligible costs include materials and labor costs that can be directly and exclusively attributed to the passive solar and daylighting system, the cost for modeling the building energy performance, and commissioning.
- (a) For passive solar systems eligible costs may include, but not be limited to, added thermal mass, incremental insulation costs above energy code levels, and shading controls.
- (b) For daylighting systems, eligible costs may include, but not be limited to, automatic controls, light shelves, overhangs, automated louvers and blinds and related controls, skylights in spaces where automatic controls are present, and the portion of windows higher than 7 feet above the floor. Eligible costs include those associated with daylighting system elements that represent more than the minimum energy code requirement. Costs for energy code-required daylighting system elements are not eligible.
- (6) For geothermal electricity generation, eligible costs include the cost of supply and disposal pipelines, turbine generators, controls, transformers, battery storage equipment and technology, metering, labor, and balance of plant.
- (7) For geothermal energy use in building systems, eligible costs include the cost of supply and disposal pipelines, pumps, heat exchangers, controls, the cost for modeling the building energy performance, metering, and labor.
- (8) Costs for permanent educational displays located in or on the building that explain the green energy technology incorporated in the project are allowed.



G4. Solar PV Array Total Size in kW (if Active Solar PV)



G5. Estimated annual energy production (or savings) of GET system

kWh electric (electricity generated or saved) / Million Btu heating (thermal energy captured or saved)

G6. Estimated annual monetary value of GET production

G7: Estimated annual usage of GET at site (if all energy generated is used on site, this value should equal #G4)

kWh electric (electricity generated or saved) / Million Btu heating (thermal energy captured or saved) Click "Next".

Click Submit.

You will get an email thanking you for submitting.

G4 Solar PV Array Total Size in kW (if Active Solar PV)	
	1
65 Estimated annual energy production (or savings) of GET system: *	
kWh electric (electricity generated or saved)	Million Btu heating (thermal energy captured or saved)
Numeric values only	Numeric values only (ex. 0.12)
G6 Estimated annual monetary value of GET production: *	
Numeric values only	
G7 Estimated annual usage of GET at site (if all energy generated is used or	n site, this value should equal #G4): *
kWh electric (electricity generated or saved)	Million Btu heating (thermal energy captured or saved)
Numeric values only	Numeric values only (ex. 0.12)
Previous Next	

GET is appropriate -> and will be installed on site -> along with energy use efficiency measures (as allowed, up to 50% of the required expenditure). OR

GET is appropriate -> and will be installed off site.

In this case there is a Technical Review required as the public body wishes to combine energy use efficiency with green energy technology as allowed by program rules.

This public body will have received a recommendation from the Technical Review Panel (TRP) and will be entering it here.

- T1. Date that the technical review was requested from the Technical Review Panel.
- T2. Summarize Public Body explanation and documentation provided to TRP

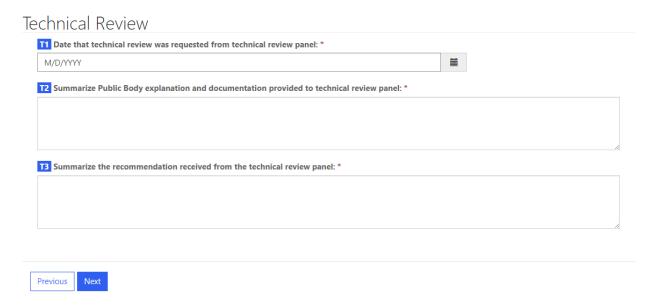


T3. Summarize the recommendation received from the TRP

Click "Next".

Click "Submit".

You will get an email thanking you for submitting.



GET is appropriate -> and installation will involve the consolidation of multiple public buildings with GET requirements into one public building that is part of the same project.

- G1. Type of Green Energy Technology: If your selection includes Passive Solar you can review OAR 330-135-0030 (see G1) for more information. You need to Select All you are using:
 - 1. Active Solar (photovoltaics)
 - 2. Passive Solar (passive elements are required to reduce whole building energy use by 10%)
 - 3. Solar Thermal (water heating)
 - 4. Geothermal (ground source heat pumps do not qualify)
 - 5. Battery Storage
- G2. Detailed description of proposed Green Energy Technology
- G3. Actual amount spent on eligible GET costs OAR 330-135-0035 (see G1)
- G4. Solar PV Array Total Size in kW (if Active Solar PV)
- G5. Estimated annual energy production (or savings) of GET system



kWh electric (electricity generated or saved) / Million Btu heating (thermal energy captured or saved)

G6. Estimated annual monetary value of GET production

G7: Estimated annual usage of GET at site (if all energy generated is used on site, this value should equal #G4)

kWh electric (electricity generated or saved) / Million Btu heating (thermal energy captured or saved)

G7. If the project involved the consolidation of the GET requirements of multiple public buildings into one public building, provide details for this consolidation.

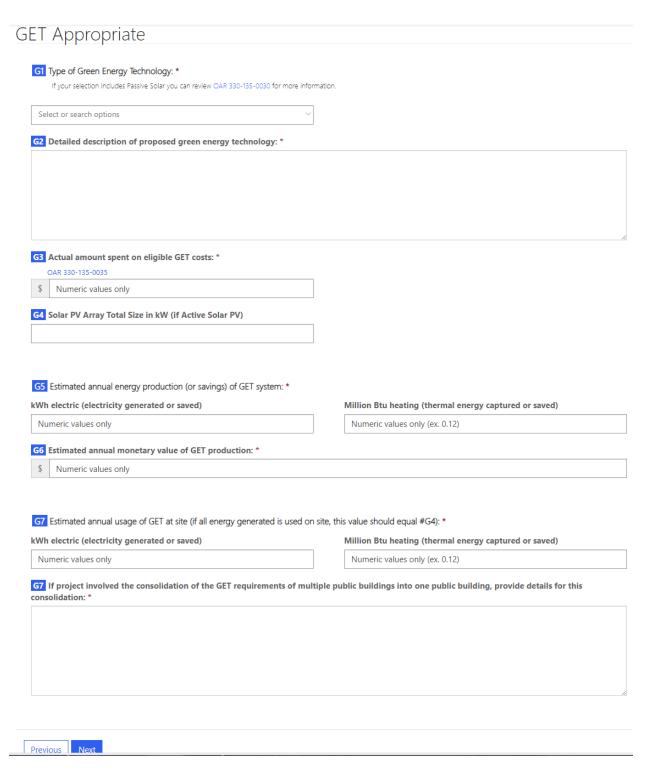
This is where you can consolidate the "bond" type projects, i.e. several school improvement projects with a new school project that will be consolidated under the same bond monies.

Click "Next".

Click Submit.

You will get an email thanking you for submitting.





GET is not appropriate -> either on site or off site -> and energy use efficiency will be used as an alternative on site.

In this case the public body will have to have had an analyzed TSRF at the project site reported previously. OAR <u>330-135-0015(18)</u> (18) "Total solar resource fraction" (TSRF) means the percent of



energy produced by a fixed axis solar energy system when compared to the annual performance of the same system with optimal tilt and orientation and no external shading

- E1. Details of proposed energy efficiency projects (including any related equipment, specifications, and how the measures will save energy).
- E2. Actual amount spent on eligible (incremental) energy efficiency costs (See OAR 330-135-0036).

330-135-0036

Eligible Energy Use Efficiency Costs

For energy use efficiency improvements, eligible costs include only those incremental costs that are directly associated with achievement of the energy use efficiency performance requirements in section 330-135-0031. Only the additional costs of energy use efficiency improvements compared to the cost of baseline equipment or baseline building performance shall be eligible. The contracting agency shall determine the appropriate incremental costs and submit information to ODOE as requested to document and demonstrate the incremental cost. Eligible costs may include but are not limited to the incremental costs of equipment such as light fixtures, heating, ventilating, and air conditioning equipment, envelope materials and assemblies, controls systems, connected building management systems, labor, and system commissioning. Any incentives received for energy use efficiency improvements do not reduce or impact the amount of expenditure on energy use efficiency for the purpose of determining compliance with the requirements or ORS 279C.527, 279C.528, and these rules.

E3. Estimated annual savings of energy use efficiency project.

kWh electric / Million Btu heating

- E4. Percentage savings of energy use efficiency, as compared to appropriate baseline.
- E5. Have supporting materials (energy model, calculations) to support energy savings been submitted to ODOE (GreenEnergy.Technology@energy.oregon.gov)? If not, please do so.

Click "Next".

Click "Submit".



Alternative: Energy Use Efficiency Note: If GET has been determined to be inappropriate for the project site, Energy Use Efficiency is only available as an alternative if the analyzed TSRF at the project site (reported previously) is less than or equal to 75% E1 Details of proposed energy efficiency projects (including any related equipment, specifications, and how the measures will save energy): * E2 Actual amount spent on eligible (incremental) energy efficiency costs (See OAR 330-135-0036): * Numeric values only E3 Estimated annual savings of energy use efficiency project: * kWh electric Million Btu heating Numeric values only Numeric values only (ex. 0.12) E4 Percentage savings of energy use efficiency, as compared to appropriate baseline: * Enter percentage between 0.0 and 100.0 E5 Have supporting materials (energy model, calculations) to support energy savings been submitted to ODOE (GreenEnergy.Technology@energy.oregon.gov)? If not, please do so. * O No Previous Next

GET is not appropriate -> either on site or off site -> and energy use efficiency will be used as an alternative off site.

In this case there is a Technical Review required as the public body wishes to install the GET or alternative (Energy Efficiency or WBET) off site.

This public body will have received a recommendation from the Technical Review Panel (TRP) and will be entering it here.

- T1. Date that the technical review was requested from the Technical Review Panel.
- T2. Summarize Public Body explanation and documentation provided to TRP
- T3. Summarize the recommendation received from the TRP
- T4. Does Public Body plan to install GET or an alternative (Energy Efficiency or WBET) off site.

 Click "Next".



Click "Submit".

You will get an email thanking you for submitting.

echnical Revie	W			
	view was requested from technica	l review panel: *		
M/D/YYYY	-			
T2 Summarize Public Bo	ly explanation and documentation	n provided to technical revi	ew panel: *	
T3 Summarize the recor	mendation received from the tech	nnical review panel: *		
	to install GET or an alternative (E	nergy Efficiency or WBET)	off site? *	
○ Yes				
○ No				
Previous Next				

GET is not appropriate -> either on site or off site -> and woody biomass technology will be used as an alternative on site.

W1. Type of woody biomass:

Choose either pellet or other.

- W2. Woody biomass supplier.
- W3. Projected annual cost of woody biomass fuel on per ton dry basis (including delivery cost).
- W4. Details of proposed woody biomass energy technology (include boiler combustion efficiency).
- W5. Actual amount spent on eligible WBET costs (See OAR 330-135-0036).

330-135-0036

Eligible Energy Use Efficiency Costs

For energy use efficiency improvements, eligible costs include only those incremental costs that are directly associated with achievement of the energy use efficiency performance requirements in section 330-135-0031. Only the additional costs of energy use efficiency improvements compared to the cost of baseline equipment or baseline building performance shall be eligible. The contracting agency shall determine the appropriate incremental costs and submit information to ODOE as



requested to document and demonstrate the incremental cost. Eligible costs may include but are not limited to the incremental costs of equipment such as light fixtures, heating, ventilating, and air conditioning equipment, envelope materials and assemblies, controls systems, connected building management systems, labor, and system commissioning. Any incentives received for energy use efficiency improvements do not reduce or impact the amount of expenditure on energy use efficiency for the purpose of determining compliance with the requirements or ORS 279C.527, 279C.528, and these rules.

W6. Estimated annual energy production (or savings) of WBET system.

kWh electric / Million Btu heating

W7. Estimated annual savings value of woody biomass energy technology.

W8. Estimated annual usage of WBET at site (if all energy generated is used on site, this value should equal #W6).

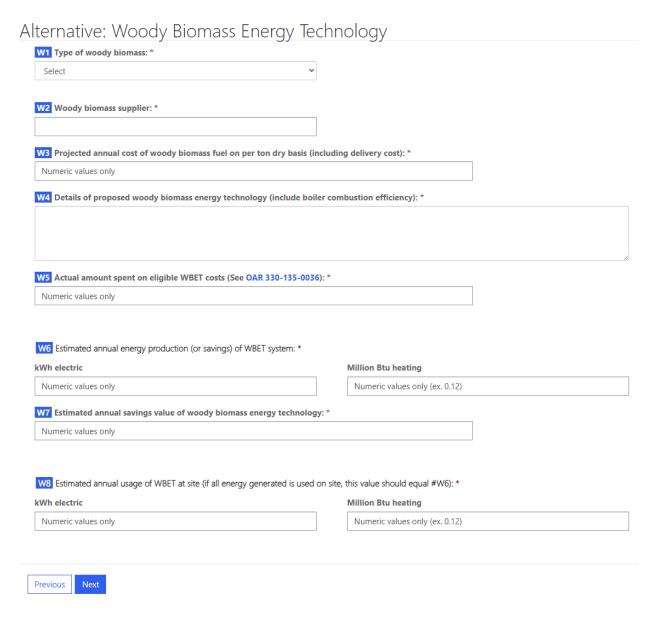
kWh electric / Million Btu heating

Click "Next".

Click "Submit".

You will get an email thanking you for submitting.





GET is not appropriate -> either onsite or off site -> and woody biomass technology will be used as an alternative off site. OR

GET is not appropriate -> either on site or off site -> and alternatives have also been determined to be inappropriate.

In this case the Public Body has submitted a Technical Review due to GET not being appropriate and other alternatives are not appropriate either. There has been a recommendation completed by the TRP and the Public Body is entering it here to comply with the GET requirements.

- T1. Date that the technical review was requested from the Technical Review Panel.
- T2. Summarize Public Body explanation and documentation provided to TRP



- T3. Summarize the recommendation received from the TRP
- T4. Does Public Body plan to install GET or an alternative (Energy Efficiency or WBET) off site.

Click "Next".

Click "Submit".

You will get an email thanking you for submitting.

T1 Date that technica	review was requested from technical review	panel: *	
M/D/YYYY			
T2 Summarize Public	Sody explanation and documentation provide	ed to technical review panel: *	
T3 Summarize the rec	ommendation received from the technical re	view panel: *	
14 Does Public Body	lan to install GET or an alternative (Energy E	fficiency or WBET) off site? *	
	lan to install GET or an alternative (Energy E	fficiency or WBET) off site? *	
○ Yes	lan to install GET or an alternative (Energy E	fficiency or WBET) off site? *	
O Yes	lan to install GET or an alternative (Energy E	fficiency or WBET) off site? *	
T4 Does Public Body Yes No	lan to install GET or an alternative (Energy E	fficiency or WBET) off site? *	
○ Yes	lan to install GET or an alternative (Energy E	fficiency or WBET) off site? *	

Need support?

Contact our <u>Public Buildings Program Manager</u> or 1-800-221-8035 for assistance in completing your report. Preferring another language, scroll down to the bottom left of the page to change the application language.

