



LEED 2009 for Core and Shell Development

EA CREDIT 2: ON-SITE RENEWABLE ENERGY

All fields and uploads are required unless otherwise noted.

ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

The compliance path selected below and values entered for annual energy use calculations must correspond with the inputs given in the EA Prerequisite 2 form.

Select a compliance path:

- ☐ **Option 1. Whole Building Energy Simulation.** The project team will document improvement in the proposed building performance rating as compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2007 or California Title 24-2005 Part 6.
- ☐ **Option 2. Prescriptive Compliance Path. ASHRAE Advanced Energy Design Guide.** The project team will document compliance with the ASHRAE Advanced Energy Design Guide.
- ☐ **Option 3. Prescriptive Compliance Path. Advanced Buildings Core Performance Guide.** The project team will document compliance with the Advanced Buildings™ Core Performance™ Guide.

Select one of the following:

- ☐ **In Scope:** The EA Credit 2 requirements are addressed by performance improvements included exclusively in the Core & Shell project scope, thus excluding tenant work.
- ☐ **Tenant Sales and/or Lease Agreement:** It is anticipated that there will be additional tenant work beyond the Core & Shell project scope which can be included in the performance calculations, as specified by the tenant sales or lease agreement.

IN SCOPE

Complete the following performance calculations using data based entirely on design and construction elements that are included in the Core & Shell project scope. No data entered below shall be based on anticipated tenant work.

TENANT SALES AND/OR LEASE AGREEMENT

- ☐ The tenant sales and/or lease agreement contains binding language specifying the minimum renewable energy performance criteria and anticipated quantities such that renewable systems within the scope of anticipated tenant work shall comply with the requirements of EA Credit 2 when completed.

Upload L-6. Provide the legally binding document (lease, sales agreement, tenant construction requirements, etc.) associated with the project, signed by both the developer and the tenant, explicitly stating the performance requirements for the tenant work.

Page/Reference number(s) of language relating to declaration(s) above:

Complete the following documentation assuming all tenant work has been completed and conforms to the requirements of the tenant sales and/or lease agreement. For required uploads, provide all available documentation pertaining to the Core & Shell project scope and anticipated tenant work.
Document the actual quantity of renewable energy provided by systems installed as part of the Core & Shell project scope (if applicable) as well as the anticipated quantities projected for the tenant-installed system. Projected quantities may not exceed the minimum renewable energy specified in corresponding tenant sales and/or lease agreements.

OPTION 1. WHOLE BUILDING ENERGY SIMULATION

Table L-1. Renewable Energy Source Summary

Renewable Energy Source	Renewable Energy Source Allocation	Renewable Systems Owner	Energy Type	Rated Capacity	Annual Energy Generated	Units	Annual Energy Cost (\$)
Total annual renewable energy generated (kWh)							
Total annual renewable energy cost (\$)							

The renewable energy system(s) declared in Table L-1. Renewable Energy Source Summary will be installed by substantial completion of construction.

SIGNATORY

Initial here:

Describe the on-site renewable energy production system(s).

The environmental attributes associated with the project building's on-site renewable energy have not been sold, and will be retained or retired for as long as the building remains LEED certified. If renewable energy certificates (RECs) are sold, then RECs equal to 100% of the system's annual rated energy output each year will be purchased from another Green-e eligible source.

SIGNATORY

Initial here:

Upload EAc2-1. Provide the renewable energy purchase agreement between the building/property owner and the renewable system owner, indicating a ten year minimum commitment.

For any renewable source allocations spanning the LEED project and space outside LEED boundary, describe calculations and assumptions made to parse the renewable source across the different end uses.

Total building energy cost: (\$)

Total renewable energy cost: (\$)

Percent renewable energy: (by cost) %

Percent renewable energy must be at least 1% to achieve 4 points, and 5% to achieve an exemplary performance point.

OPTIONS 2 & 3: PRESCRIPTIVE COMPLIANCE PATHS

Table EAc2-2. Renewable Energy Source Summary

Renewable Energy Source	Renewable Energy Source Allocation	Renewable Systems Owner	Energy Type	Rated Capacity	Annual Energy Generated	Units	Annual Energy Cost (\$)
Total annual renewable energy generated (kWh)							
Total annual renewable energy cost (\$)							

The renewable energy system(s) declared in Table EAc2-1. Renewable Energy Source Summary table will be installed by substantial completion of construction.

SIGNATORY

Initial here:

Describe the on-site renewable energy production system(s).

The environmental attributes associated with the project building's on-site renewable energy have not been sold, and will be retained or retired for as long as the building remains LEED certified. If renewable energy certificates (RECs) are sold, then RECs equal to 100% of the system's annual rated energy output each year will be purchased from another Green-e eligible source.

SIGNATORY	
Initial here:	

Upload EAc2-2. Provide the renewable energy purchase agreement between the building/property owner and the renewable system owner, indicating a ten year minimum commitment.

For any renewable source allocations spanning the LEED project and space outside LEED boundary, describe calculations and assumptions made to parse the renewable source across the different end uses.

Table EAc2-3. MEI and Renewable Energy Cost

For mixed use buildings, choose the predominant building type that suits the project OR use a non-default MEI and explain the sources for the non-default MEI value.

Building Type	Default MEI	Electricity (kWh/sf/yr)	Non-Electrical Fuel (Btu/sf/yr)
	<input type="checkbox"/>		
Total gross square footage (sf)			
Annual energy use (kWh/yr, Btu/yr)			
Average energy rate (\$/kWh, \$/Btu)			
Annual energy cost (\$/yr)			
Total annual energy cost (\$/yr)			
Percent renewable energy (by cost)			

Percent renewable energy must be at least 1% to achieve 4 points, and 5% to achieve an exemplary performance point.

List the CBECS source and/or calculation methodology used to calculate the non-default Median Energy Intensity value.

ADDITIONAL DETAILS

- ☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload EAc2-SC. Provide any additional documentation that supports the claim to special circumstances. (Optional)

- ☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload EAc2-ACP. Provide any additional documents that support the alternative compliance path approach. (Optional)

- ☐ The project team is using the above alternative compliance path to document exemplary performance of EA Credit 2.
- ☐ The project team is pursuing exemplary performance of EA Credit 2.

EXEMPLARY PERFORMANCE

Select one of the following:

- ☐ On-site renewable energy accounts for at least 5% of the annual Core and Shell project building energy cost.
- ☐ The tenant sales and/or lease agreement option has been pursued to achieve EA Credit 2; in addition, tenant-supplied on-site renewable energy is required to achieve at least 5% of on-site renewable energy.
- ☐ The tenant sales and/or lease agreement contains binding language specifying the minimum renewable energy performance criteria and anticipated quantities such that renewable systems within the scope of anticipated tenant work shall comply with the requirement by providing 5% of the annual tenant energy cost when completed.
- ☐ The legally binding document provided above (named Upload L-6) explicitly states the performance requirements for the tenant work.

Page/Reference number(s) of language relating to the exemplary performance thresholds above within Upload L-6:

SUMMARY

EA Credit 2: On-Site Renewable Energy Points Documented:

EA Credit 2: On-Site Renewable Energy Exemplary Performance Documented:

- ☐ The project team reserves one point in the Innovation in Design credit category for exemplary performance in EA Credit 2.