



LEED BD+C: Core and Shell | v4 - LEED v4



# Renewable energy production

Possible 3 points

Glossary

## Intent

To reduce the environmental and economic harms associated with fossil fuel energy by increasing self-supply of renewable energy.

## Requirements

Use renewable energy systems to offset building energy costs. Calculate the percentage of renewable energy with the following equation:

$$\% \text{ renewable energy} = \frac{\text{Equivalent cost of usable energy produced by the renewable energy system}}{\text{Total building annual energy cost}}$$

Use the building's annual energy cost, calculated in EA Prerequisite Minimum Energy Performance, if Option 1 was pursued; otherwise use the U.S. Department of Energy's Commercial Buildings Energy Consumption Survey (CBECS) database to estimate energy use and cost.

The use of solar gardens or community renewable energy systems is allowed if both of the following requirements are met.

- The project owns the system or has signed a lease agreement for a period of at least 10 years.
- The system is located with the same utility service area as the facility claiming the use.

Credit is based on the percentage of ownership or percentage of use assigned in the lease agreement. Points are awarded according to Table 1.

**Table 1. Points for renewable energy**

Percentage renewable energy	Points (except CS)	Points (CS)
1%	1	1
3%	—	2
5%	2	3
10%	3	—