



SUSTAINABLE SITES - GREEN BUILDING TECHNOLOGY
TRAINING PROGRAM
FOR GREEN BUILDING AND SUSTAINABILITY SPECIALISTS
KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP
GREEN BUILDING SPECIALIST CURRICULUM





SUMMARY AND RESOURCES
FOR GREEN BUILDING AND SUSTAINABILITY SPECIALIST
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SUMMARY





- Know the benefits of looking at the project site as a whole
- Include local and regional ecosystems in the project.
- Recognize how different credits work together.
- Know how credit requirements lead to better buildings and a change in the market.
- Explore the LEED v4 Sustainable Sites credits, which are related to the environment surrounding the building.



SUSTAINABLE SITES



The Sustainable Sites (SS) category rewards decisions about the environment surrounding the building, with credits that emphasize the vital relationships among buildings, ecosystems, and ecosystem services. It focuses on restoring project site elements, integrating the site with local and regional ecosystems, & preserving the biodiversity that natural systems rely on.



CRITERIA IN THIS CATEGORY

SS PR.CONSTRUCTION ACTIVITY POLLUTION PREVENTION

SS CR.SITE ASSESSMENT

SS CR.SITE DEVELOPMENT - PROTECT OR RESTORE HABITAT

SS CR.OPEN SPACE

SS CR. RAINWATER MANAGEMENT

SS CR.HEAT ISLAND REDUCTION

SS CR.LIGHT POLLUTION REDUCTION



MAXIMUM POSSIBLE CREDITS : 1 P / 10 C

WHAT MAKES A SITE SUSTAINABLE?

A sustainable site design considers the building's effect on the neighbourhood as well as the building's intended tenants.

Either the team starts with a site and analyses the greatest functions and uses for that specific location, or the team starts with a function and chooses the best location for that land use. These two approaches are ideal starting points for sustainable design projects.

To ensure a project's sustainability, the site of the building must be selected and managed during development. A building's influence on ecosystems and waterways is reduced by environmentally sound site selection, which also fosters regionally suitable planting, rewards sensible transportation decisions, and manages stormwater runoff.

Additionally, proper site management can lessen pollution from building, the heat island effect, light pollution, and erosion. Buildings can be erected in a variety of sites; project teams should select the environmentally preferable choice and then maintain the site responsibly.



STRATEGIES TO A SUSTAINABLE SITE

As development keeps getting better, the question is whether we will build better, the same, or worse than before. It's not as hard as you might think to build on better sites that work with the landscape instead of against it and that take advantage of the property's natural assets.

Sustainable site planning and design helps people get back in touch with nature and can combine the science of ecology with the art of design in any kind of development. This can be done by putting these in landscape designs:

1. Be aware of what you have. Before you can build a site that makes sense, you need to know what is on the site (water, plants, habitat, etc.).

2. Choose the right style of building. Find a place that fits the needs of your building program. Don't try to build a certain size or style of building on a site that can't handle it. This will help lessen the effects of grading and erosion problems and make it easier to keep the site's natural resources in good shape.



STRATEGIES TO A SUSTAINABLE SITE +

3. Take care of water. Water problems, like lack of water, bad water quality, and poor drainage, can all be fixed by designing to treat rainwater and catch and store it so it can be used again.

4. Help save energy by using the landscape. By putting plants in the right places around a building or home, energy can be saved for both heating and cooling.

5. Choose the correct plants. Think about native plants and plants you can eat. Even better, think about native plants you can eat. You can also use new places to plant species that are going extinct in the wild because they are losing their homes.

With sustainable site planning and design, the social, environmental, and economic needs of the developer, the community, and the individual can all be met. In fact, many companies like New Belgium Brewing, Sierra Nevada, and Davenport Park, to name a few, see this kind of growth as a way to stay ahead of the competition in the market.

RESOURCES

<https://www.usgbc.org/resources>

<https://knowledgelab.beyondsmartcities.in>

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