

Green Building Basic Categories

1- Site Planning

- Effect of construction process on local ecology, especially impact on undeveloped lands.
- Improve previously contaminated sites.
- Appropriate location to reduce the need for private transportation and help to prevent an increase in air pollution.
- Controlling stormwater runoff and erosion, which can prevent the worsening of water quality.
- Light pollution productions.

2- Water:

- Water efficient landscaping.
- Innovative wastewater technologies.
- Water use reduction.

3- Energy

- Minimum energy Performance.
- Renewable Energy.
- Energy Star equipments.

4- Material

- Storage & collection of recyclables.
- Building Material reuse.
- Construction waste management.

5- Indoor Air Quality

- Increase ventilation effectiveness.
- Indoor chemical and pollutant source control.
- Daylight & views.

6- Innovation in design



Photovoltaic system in Senior Housing Project

Located in Milpitas

Building Green In Milpitas

Expedite The Permitting Process !

The City of Milpitas Building and Safety Department offers expedited Building permit process for Residential projects meeting “Built It Green” Green point Rating Standard and for Commercial and Industrial projects meeting the LEED “silver “ rating.



*Sustainable
Milpitas*



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Building & Safety Department

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Building Green

In Milpitas



Planning a new construction
OR

Remodeling Your Home

Then You Might
Consider Building
Green!



*Green
Building in
Milpitas*



What is Green building?

Green Building practices promote construction of buildings that are healthier for the occupants and healthier for the environment. The City of Milpitas Green Building policy establishes sustainability as a City priority and further demonstrates the City's commitment to the environment.



What are the benefits of Green Buildings?

1- Environmental benefits:

Buildings are major contributors to consumption and waste. For example, buildings in U.S. consume approximately 65% of all electricity used. Building Green can:

- Enhance and protect ecosystems and biodiversity.
- Improve air and water quality.
- Reduce solid waste.
- Conserve natural resources.

2- Economical Benefits:

Through a focus on efficiency, conservation of resources, and natural lighting, green building can:

- Reduce operating costs.
- Enhance asset value and profits.
- Improve employee productivity and satisfaction.
- Optimize life-cycle economic performance.

3-Health and community benefits:

People spend the vast majority of their time in buildings and their health can negatively impacted through the use of toxic chemicals in paint, carpets and sealants. Building green focuses on the use of fewer toxic materials and can:

- Improve air, thermal and acoustic environments.
- Enhance occupant comfort and health.
- Minimize strain on local infrastructure.
- Optimize life-cycle economic performance.



What is LEED?

The Leadership in Energy and Environmental Design (LEED) is a rating system developed by U.S. Green Building Council (USGBC), which provides standards for environmentally sustainable construction. This rating system encourages global adoption of sustainable green.



What is "Built It Green" Green point Rating ?

GreenPoint Rated is a program of Build It Green, a professional non-profit membership organization whose mission is to promote healthy, energy- and resource-efficient buildings in California. There are two rating systems.

GreenPoint Rated for New Homes

GreenPoint Rated for Existing Homes



Is Green Building More Expensive?

As green building has become more mainstream, it has consequently become more difficult in many cases to demonstrate increased initial costs. Certainly some technologies may be cost prohibitive, but efficient construction techniques typically mean the use of less materials in the short term as well as lower long term operating and maintenance costs. This translates into more affordable construction over the life of the building, and in some cases even a reduction in initial costs. Green and sustainable buildings often also reduce infrastructure costs because they typically have efficient energy systems and thereby contribute to the reduction or elimination of the need for construction of additional power plants and water treatment facilities.



Is Green Building "Alternative" Building?

The answer is "not necessarily". Although some have characterized green building as utilizing alternative construction materials and methods. (such as adobe, straw bale, rammed earth, "green roofs" and solar collectors.) In practice, green building is typically characterized by more efficient and higher performance versions of traditional building materials, assemblies, systems and strategies.

Samples of Building Green



Solartubes and Windows are excellent ways to utilize natural light and reduce the need for



Bamboo flooring is considered more sustainable than wood due to Bamboo's fast growth.

Some Useful & Related Links.

- USGBC: U.S. Green Building Council
www.usgbc.org
- Building Green
www.buildinggreen.com
- Alamida County in California
www.stopwaste.org
- The Environmental Protection Agency's Energy Star Program
www.energystar.gov