



EMERALD KEEPERS

For an Emerald Green, Ocean Blue Coronado

SUSTAINABLE BUILDING

How do buildings contribute to climate change?

Buildings, their construction, operation and maintenance, the required material manufacturing and material transport to the site all contribute significantly to our planet's climate change. According to the U.S. Energy Information Administration, the energy used by residential and commercial (including manufacturing, service and education sectors) buildings and their construction together accounted for 36 to 39% of U.S. energy consumption in 2019. This percentage is similar for global energy use as well. As a result, building construction contributes 39% of energy-related carbon dioxide emissions in the U.S.



DAVY ARCHITECTURE PHOTO

Coronado Animal Care Facility

In the early 1990s, several industry leaders formed the U.S. Green Building Council — a non-profit organization, with the mission of bringing together the various sectors associated with building and construction to promote sustainability and green building practices. Besides influencing the development of a global green building movement and formation of councils worldwide, USGBC, together with the Natural Resources Defense Council, is well-known for LEED, the Leadership in Energy and Environmental Design certification program.

WHAT IS LEED?

According to its website, LEED is currently “the most widely used green building rating system in the world, with 1.85 million square feet of construction space certifying every day. LEED certification provides



CITY OF CORONADO PHOTO

The John D. Spreckels Center

independent verification of a building or neighborhood's green features, allowing for the design, construction, operations and maintenance of resource-efficient, high-performing, healthy, cost-effective buildings. LEED is the triple bottom line in action, benefiting people, planet and profit.” The LEED rating system is based on a 100-point scale and points are awarded on the how building design addresses the following categories: sustainable sites, energy efficiency, water efficiency, materials and resource used, indoor environmental quality, emissions and operations and maintenance.

The LEED certification awards are divided into certified, silver, gold and platinum. There are several LEED-certified buildings in Coronado. Silver-rated buildings include



CITY OF CORONADO PHOTO

Coronado Clubroom and Boathouse



North Island Navy Lodge

the Coronado Clubroom and Boathouse, Animal Care Facility, Tennis Center and John D. Spreckel Senior Center. Examples of gold-certified buildings include the North Island Navy Lodge and a private residence along the bay.

Some design elements that are used to achieve the LEED certification are natural lighting, passive heating and cooling, heated floors, locally harvested materials, photovoltaic systems and hot water solar panels.

Although we often associate LEED certification with public buildings, it is available for homes as well. LEED stresses the importance of every building being a green building and especially our homes. It is important that the buildings where we spend the majority of our time have clean interior air and incorporate materials that are safe for our environment.



BENEATH THE SURFACE

TUESDAY, OCTOBER 13, PRESENTATION 7PM

Have you ever wondered what lives beneath the surface? Rocio Bunker, PADI Ambassador and Training Director at Ocean Enterprises Dive Team, knows the ocean residents and their routines at La Jolla Shores where

she dives each day. Don't miss her gorgeous local photography and videography! Zoom link at EmeraldKeepers.org. The Zoom link is posted at EmeraldKeepers.org under Events and Screenings.

For more information visit **EMERALDKEEPERS.ORG**