

GREEN BUILDINGS INNOVATION PROGRAM



WHAT IS GREEN BUILDING?

According to the United States Environmental Protection Agency (EPA), green building is the practice of creating structures and using processes that are environmentally responsible and resource-efficient throughout a building's life-cycle from siting to design, construction, operation, maintenance, renovation and deconstruction. This practice advances the decarbonization of the building sector with a focus on operational and embodied carbon as well as strengthens building and community resiliency.

HOW DOES THE PROGRAM WORK?

The U.S.-ASEAN Smart Cities Partnership (USASCP) established the Green Buildings Innovation Program (GB) to reinforce its focus on the building sector and engage multi-disciplinary partner universities in ASEAN to develop new curricula to address local challenges, promote new material use, and support research and innovation to inspire future generations of experts throughout the region. Research projects on the use of hempcrete and green walls are being piloted in Bangkok, Thailand, and Yogyakarta, Indonesia.

ASEAN PARTNERS

- Gadjah Mada University, Indonesia
- Chulalongkorn University, Thailand
- Ho Chi Minh City University of Technology, Vietnam



GB INNOVATION CLASSES

- Bioclimatic Design
- Building-Integrated Renewable Energy Systems
- Building Life-Cycle Assessment
- Circularity in Buildings
- Dedicated Outdoor Air Systems
- Net-Zero Design
- Resiliency in the Built Environment
- Sustainable Facades
- Sustainable Materials

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