# **Assignment 1: Advanced Energy System Design and LEED**

# Objectives

Identify the characteristics of the LEED rating system that relate to Advanced Energy System Design

Describe the relationship between LEED and the USGBC

Navigate LEED [resources online](https://www.usgbc.org/resources?Format=%5B%22Excel+doc%22%5D&SearchResultsortOption=%22Recently+added%22) and use the [LEED Credit Library](https://www.usgbc.org/credits) for points tabulation to achieve a certification under one category for a building of your choice.

You may choose to certify your building project as certified, Silver, Gold, or Platinum.

List your credits and reasons for the selection.

For Example: Under Building Design and Construction (BD+C), I used the Credit Category Energy and Atmosphere credit Optimize Energy Performance for a total of 18 points and other credits to sum a total of 79 points for Gold Certification of the project.

# Deliverables

A technical report or slide presentation that includes the following:

* Table of Contents
* Project Description
* Location including a map view with site orientation (use the building orientation references and diagrams in your slide lectures from class).
* Size of Building in square feet and storeys
* Building type and use
* Rating System (Explain why you selected this system based on your building type and use)
* Credit Category (Screenshot your credits and cite the source using APA citations for Websites)
* Use the APA Quick Guide attached.
* Total Sum of Credits to reach your certification level of:
  + Certified (40-49 points earned)
  + Silver (50-59 points earned)
  + Gold (60-79 points earned)
  + Platinum (80+ points earned)
* Include links to references where applicable
* Include your conclusion that summarizes where your building could be located and the benefits to social sustainability, economic sustainability, and environmental sustainability.