

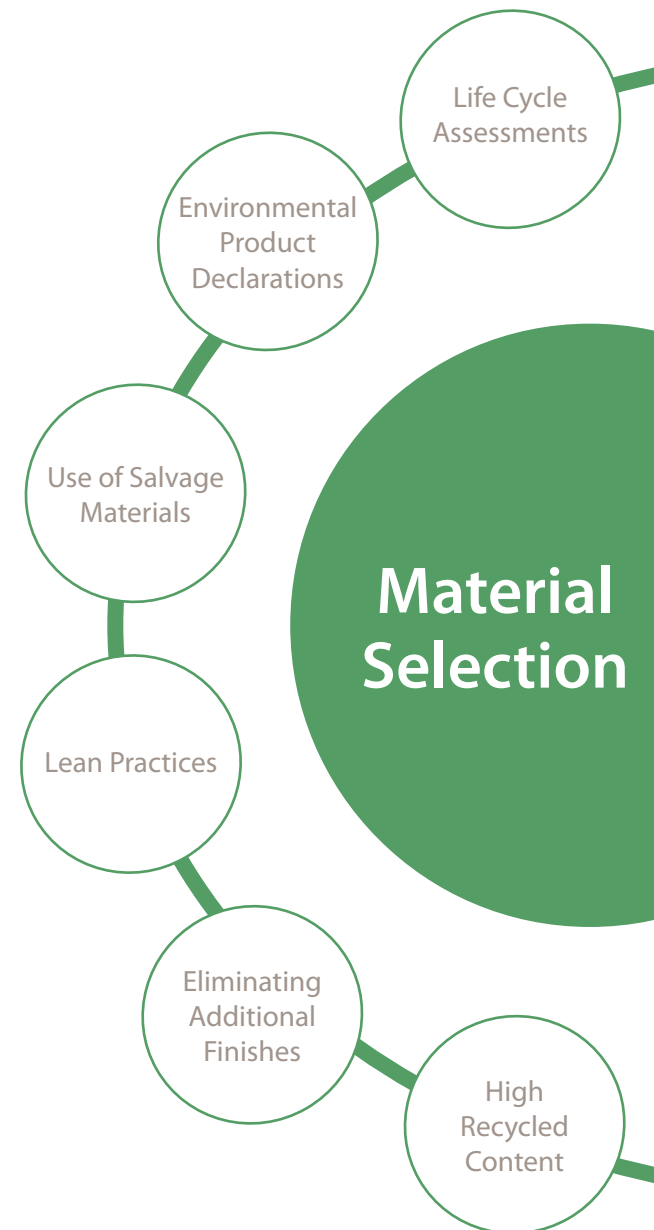
# Delivering Sustainable Buildings for our Clients

Gilbane Building Company is committed to sustainability in both our internal business practices and in the services we offer to our clients, with an overarching goal of eliminating waste, reducing pollution, promoting recycling, utilizing repurposed materials, and increasing energy efficiency to reduce our carbon footprint.

## Carbon Reduction through Material Selection

We deploy strategies for reducing carbon through smart building material selections, starting with life cycle assessments (LCAs) of building materials. Our project teams utilize LCAs to compare products determining their expected life span, functional equivalence, and quantitatively compare individual materials based on their environmental impacts, including material versus operational carbon savings.

Product databases are utilized to gather the environmental attributes associated with the various building materials. This information is then used to evaluate the materials' embodied carbon. By looking at individual building material types, we are able to assess the available options and maximize the reduction of embodied carbon associated with the various specified building materials, which results in the overall reduction for the building.





These projects reflect Gilbane Building Company's commitment to sustainability and helping our clients achieve their sustainability goals.

## Adlai E. Stevenson High School East Building Addition ▶

Lincolnshire, Illinois

- › 50,000-SF addition achieved Zero Energy certification from the International Living Future Institute (ILFI)
- › First verified Net Zero Energy building in Illinois by the New Buildings Institute (NBI), LEED Platinum Schools, and the first Living Architecture Performance Tool (LAPT) Platinum certified project in the world

### Sustainable Features

Greenhouse • green roof/garden area • recycled water filtration system • solar panels • two-story living wall • graywater system used for irrigation connected to onsite showers and lavatories • solar thermal hot water system • vacuum composting toilets



Net Zero Energy Award  
New Buildings Institute (2021)

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## Westborough Fales Elementary School ▼

Westborough, Massachusetts

- › First net-positive school in Massachusetts
- › First facility to support Westborough's goal to be carbon emissions free by 2035
- › Rooftop solar array capable of generating 10% more energy than required

### Sustainable Features

Net-Zero energy use • rooftop solar voltaic system • rooftop monitors • solar panel arrays • 40 Geothermal wells • net-metering contract • LEED Silver design • ground floor public spaces to reduce heat loss and gain through exterior walls





Project of the Year  
Associated Builders and  
Contractors (ABC) (2021)



## School District of Osceola County NeoCity Academy STEM High School

Kissimmee, Florida

- › New construction of high performance, solar ready STEM high school
- › First zero energy K-12 facility in Florida
- › The three-story building and a central energy plant are located on a five-acre site at the NeoCity Campus, a hub for technology and innovation that has been called the next 'sensor city' of America
- › Immersive, inquiry-based "learningscape", with spaces for thinking, creating, discovering, exchanging and imparting

### Sustainable Features

Air purification technology • enhanced LED lighting • natural daylighting • solar panels • condensation recycled to fluid cooler – reducing water utility • height increases from south to north preventing shadows on lower roof panels

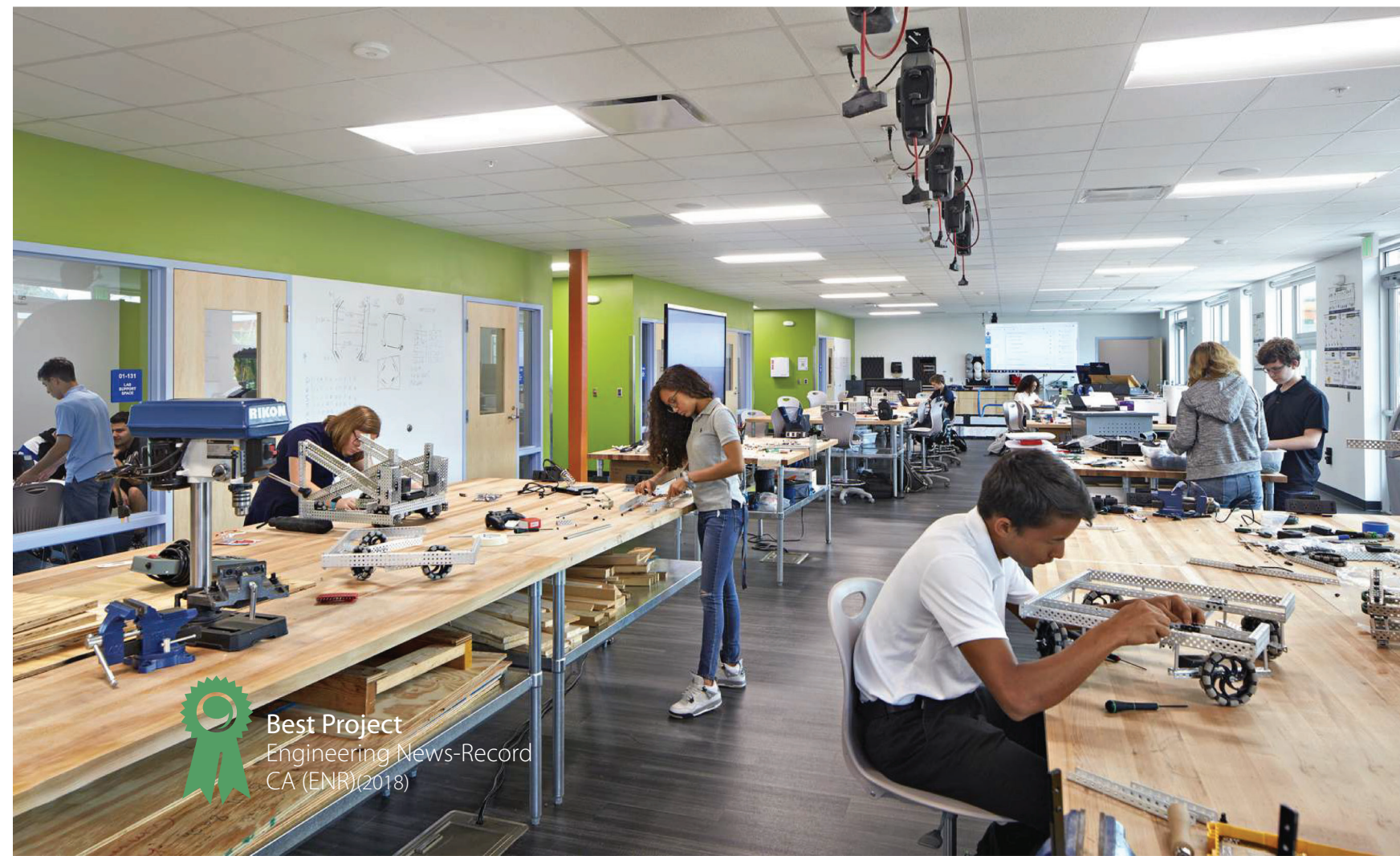
## California State University Associated Students Sustainability Center

Northridge, CA

- › Home to the Institute for Sustainability, serves as an example of energy efficiency and sustainable design
- › Achieved LEED Platinum, Living Building Challenge, Net-Zero Energy and Net-Zero Water certifications

### Sustainable Features

Glazing systems • enhanced insulation • durable and sustainable cladding • cool or green roof systems • natural daylighting • 25kW photovoltaic system containing 100 solar panels on roof of recycling building • drought tolerant landscape includes bioswale • graywater irrigation system connected to onsite showers and lavatories • solar thermal hot water system • vacuum composting toilets



Best Project  
Engineering News-Record  
CA (ENR) (2018)



Affiliations:

Gilbane has affiliations with multiple organizations dedicated to sustainability and transforming the built environment, including:



Adlai E. Stevenson High School East Building Addition  
Lincolnshire, Illinois