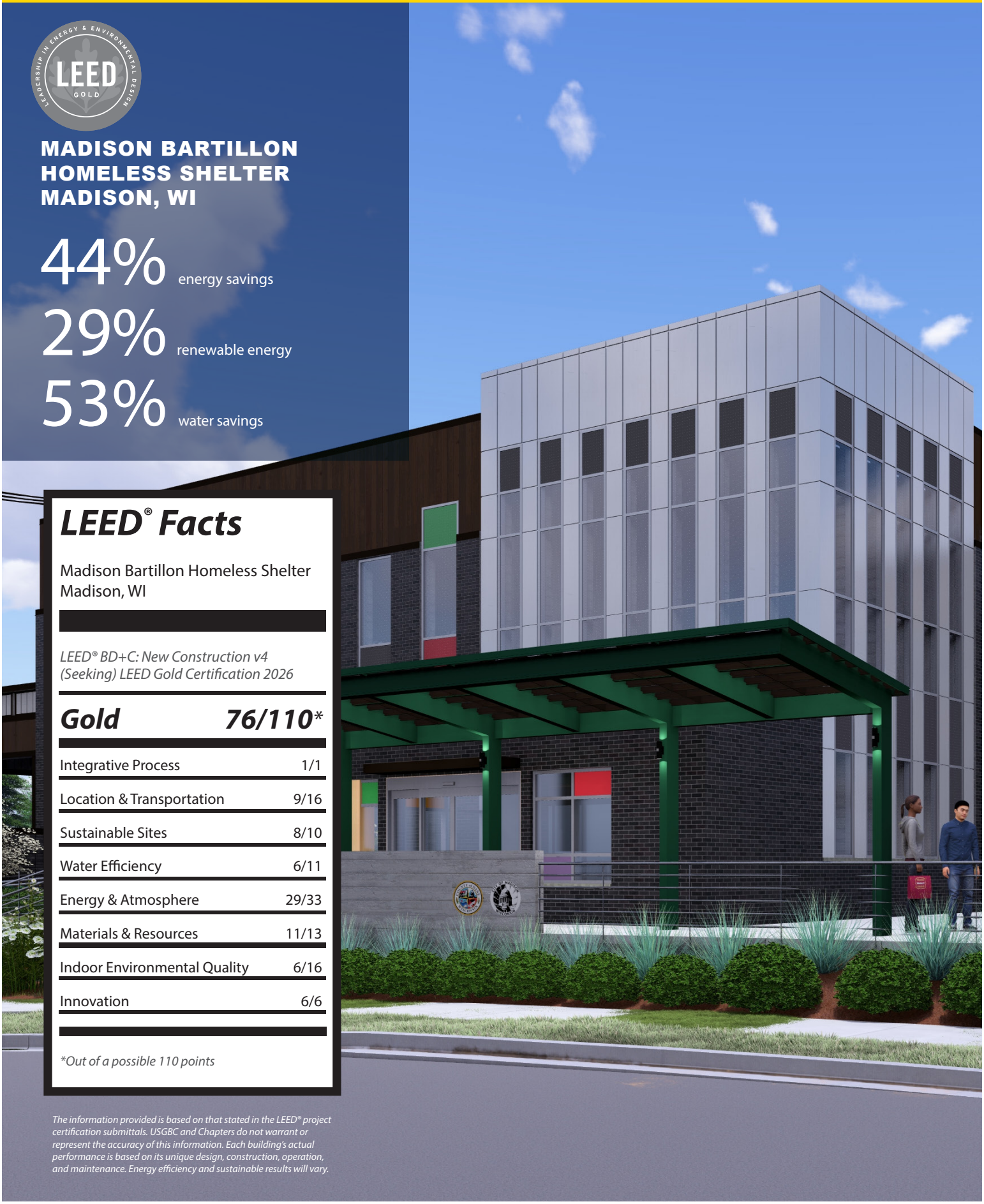
PROJECT PROFILE

MADISON BARTILLON HOMELESS SHELTER MADISON, WI

44% energy savings

29% renewable energy

53% water savings



LEED® Facts

Madison Bartillon Homeless Shelter
Madison, WI

LEED® BD+C: New Construction v4
(Seeking) LEED Gold Certification 2026

Gold	***76/110****
Integrative Process	1/1
Location & Transportation	9/16
Sustainable Sites	8/10
Water Efficiency	6/11
Energy & Atmosphere	29/33
Materials & Resources	11/13
Indoor Environmental Quality	6/16
Innovation	6/6

**Out of a possible 110 points*

PROJECT PROFILE

MADISON BARTILLON HOMELESS SHELTER

PROJECT BACKGROUND

The 44,085 SF, two-story, Bartillon Homeless Shelter, located at 1904 Bartillon Drive on Madison's east side, represents the city's first purpose-built, permanent, 24/7, emergency homeless shelter for men. Designed to serve up to 250 guests and supported by approximately 25 specialized staff members, the facility provides a safe, welcoming, and dignified environment. The first floor includes a lobby, guest intake area, flexible daytime-use spaces, a commercial kitchen, dining room, staff offices, healthcare support areas, quarantine and isolation rooms, and an accessible sleeping area. The second floor features four primary dormitory-style sleeping areas, restrooms, showers, staff oversight offices, and mechanical spaces. Operated by Porchlight and funded by the City of Madison, Dane County, and the federal government, the facility also leverages Wisconsin's Focus on Energy incentive program and the Inflation Reduction Act (IRA) direct-pay tax credit to offset initial construction costs.

STRATEGIES AND RESULTS

Pursuing LEED v4 BD+C Gold certification underscores the City's commitment to sustainability and leadership in high-performance building design. A central goal was to create an energy-efficient, all-electric facility capable of approaching net-zero utility emissions. This approach reduces environmental impact while lowering operational costs, allowing more resources to be directed toward guest services.

The shelter is less than a half-mile walk of various businesses and is well-served by Metro Transit's rapid and local bus routes. Site design prioritizes accessibility, sustainability, and connection to nature. Parking and irrigation needs were minimized, and the site features sidewalks and permeable paving to improve circulation and reduce runoff. Nearly 60% of the site is dedicated to open garden space with native and adaptive vegetation. Second-floor balconies are complemented by a 1,968 SF green roof planted with native prairie vegetation to help manage stormwater, reduce peak flows, and support pollinators.

Stormwater management strategies include on-site biofiltration, infiltration, and rainwater harvesting via an underground cistern. This system is expected to supply approximately 181,236 gallons of non-potable water annually for uses such as toilet flushing, reducing potable water consumption by 10%. Combined with low-flow plumbing fixtures, the project achieves a total water savings of 53.31%.

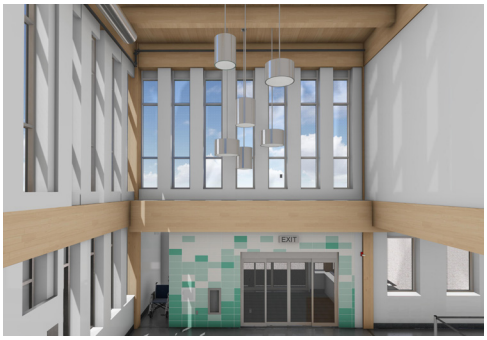
The building's mass timber structure—comprising approximately 400 tons of Southern Yellow Pine—reduces embodied carbon. Additional energy-saving features include a high-performance envelope, a reflective white TPO roof, green roof elements, and a geothermal system consisting of approximately 10 miles of underground piping. Together, these systems reduce energy costs by 43.8% compared to a standard code-compliant building. The all-electric facility also includes a 200 kW rooftop photovoltaic system that generates approximately 245,000 kWh annually, offsetting 29% of total energy consumption and advancing the goal of net-zero emissions. With Indoor environmental quality a priority, the building incorporates a high-performance ventilation system with increased outdoor air intake, a construction indoor air quality management plan, and MERV 13 filtration. Additional measures include HEPA-level infection control strategies, needlepoint bipolar ionization, and UV disinfection lighting. Interior materials were selected for low or zero VOC emissions to support occupant health.

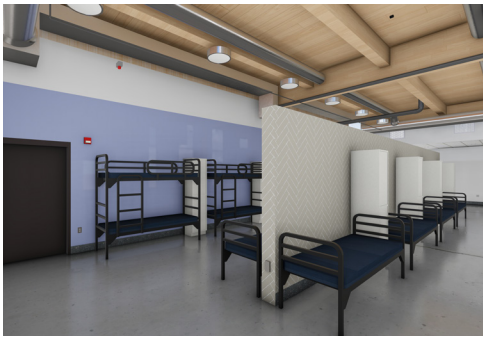
Finally, the shelter was designed using a trauma-informed approach—more commonly applied in healthcare settings—to promote mental and emotional well-being. Through the use of natural materials, thoughtful layouts, ample daylight, and calming color palettes, the facility provides a welcoming and acoustically comfortable environment that helps reduce stress and support recovery.

Madison, Wisconsin, is the state capital and second-largest city, located in Dane County, known for its unique isthmus geography between Lakes Mendota and Monona. Madison is located on land originally inhabited by the Ho-Chunk tribe. The City and the surrounding Metro area has a population of over 700,000 and is one of Wisconsin's fastest growing regions.

Porchlight strives to reduce homelessness in Dane County by collaborating with the community to provide shelter, affordable housing, and supportive services. Porchlight has operated the men's emergency shelter for over 40 years, and has been a vital partner in envisioning, advocating for, and designing the new purpose-built shelter.

Miron Construction Co., Inc., one of the nation's premier construction firms and industry leaders, provides innovative preconstruction, construction management, design-build, industrial, and general construction services nationwide. Headquartered in Neenah, Wis., and regional offices throughout Wisconsin, Iowa, and Michigan, Miron is ranked 74th among the "Top 400 Contractors in the United States," 88th in the "Top 100 Green Building Contractors in the United States," and 183rd among the "Top 250 Global Contractors" by Engineering News Record (ENR) (based on annual revenue). Visit *www.miron-construction.com* for more information.





Owner: City of Madison
Tenant: Porchlight, Inc.
LEED® Project Admin: HabLab LLC
Construction Manager: Miron Construction Co., Inc.
Architect: Dimension IV Madison Design Group
Trauma Informed Design Consultant: Shopworks Architecture
Civil Engineer/Landscape: Snyder Associates
MEP/FP Engineers: IBC Engineering
Structural Engineer: Oneida Total Integrated Enterprises
Food Service Design: Stewart Design Group
Commissioning Agent: Baumann
Energy Modeler: Baumann
Project Size: 44,085 SF
Construction Budget: $27,000,000

ABOUT LEED

Leadership in Energy & Environmental Design (LEED) is the most widely used green building rating system in the world and an international symbol of excellence in green building. LEED provides a framework to create healthy, highly efficient and cost-saving green buildings Developed by the U.S. Green Building Council (USGBC), LEED certification ensures electricity cost savings, lower carbon emissions and healthier environments for the places we live, work, learn, play and worship. For more information, visit usgbc.org.