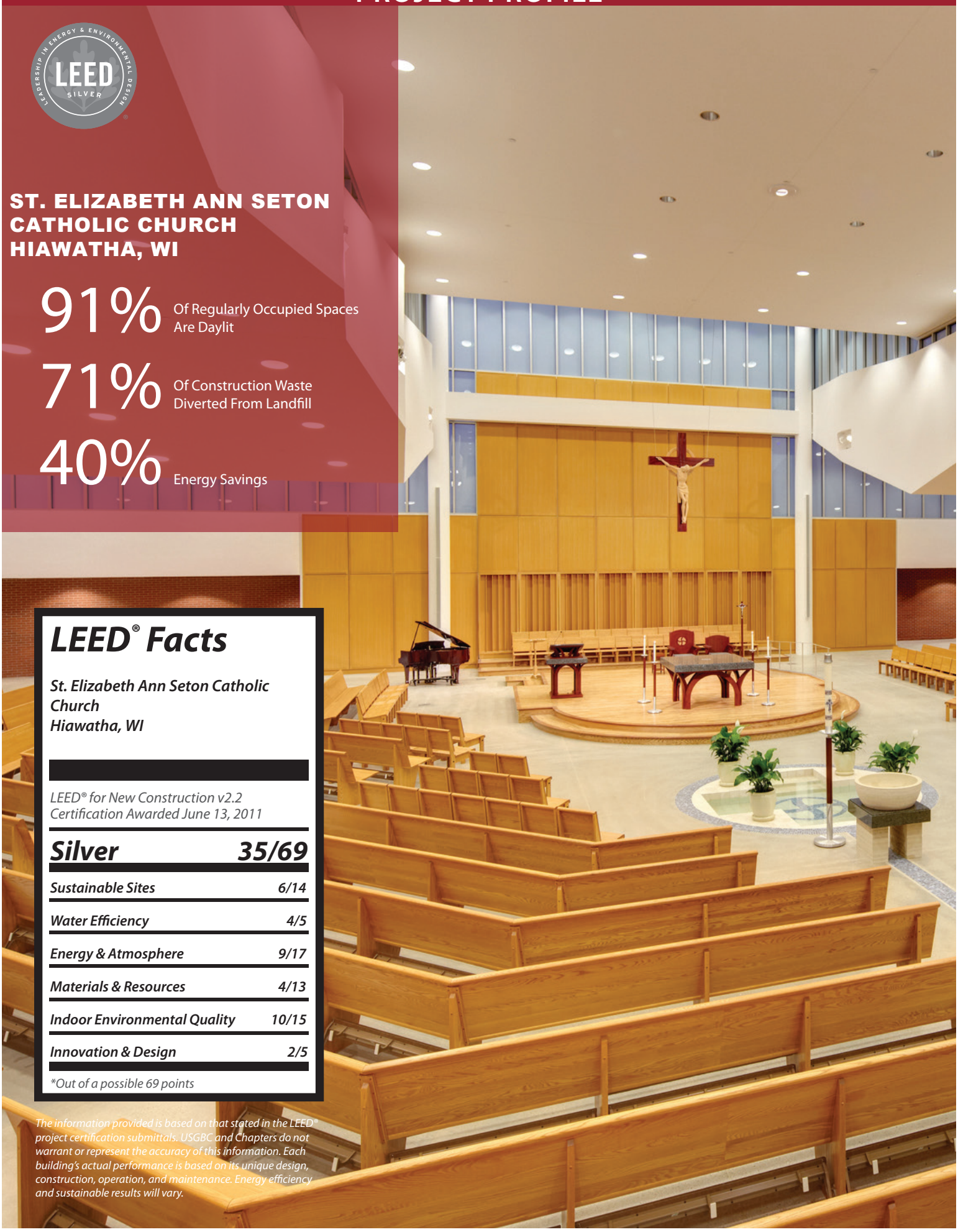
PROJECT PROFILE



ST. ELIZABETH ANN SETON CATHOLIC CHURCH HIAWATHA, WI

91% Of Regularly Occupied Spaces Are Daylit

71% Of Construction Waste Diverted From Landfill

40% Energy Savings

LEED® Facts

St. Elizabeth Ann Seton Catholic Church
Hiawatha, WI

LEED® for New Construction v2.2
Certification Awarded June 13, 2011

Silver	***35/69***
Sustainable Sites	*6/14*
Water Efficiency	*4/5*
Energy & Atmosphere	*9/17*
Materials & Resources	*4/13*
Indoor Environmental Quality	*10/15*
Innovation & Design	*2/5*

**Out of a possible 69 points*

The information provided is based on that stated in the LEED® project certification submittals. USGBC and Chapters do not warrant or represent the accuracy of this information. Each building's actual performance is based on its unique design, construction, operation, and maintenance. Energy efficiency and sustainable results will vary.

PROJECT PROFILE

ST. ELIZABETH ANN SETON CATHOLIC CHURCH

PROJECT BACKGROUND

The growing Catholic parish of St. Elizabeth Ann Seton of Hiawatha, Iowa began building their 21,437 square foot facility in 1993 with a Phase I project consisting of lower level spaces for a social hall to accommodate up to 400 people, flexible educational spaces, religious education resource center, and main level spaces for a Narthex and temporary worship space. A Phase II addition, designed in 1999, consisted of lower level restrooms, storage, and meeting rooms, and main level administrative offices. The current Phase III project consists of a new 28,044 square foot addition that includes a new Sanctuary to seat 1,150 worshipers and a recessed immersion baptismal font, Eucharistic Reservation and Reconciliation Chapels, Sacristy with an expanded music area, Narthex, Nursery, and other support spaces including a gathering space with windowed walkway connecting to the original building. Renovations to the existing building include a Formation Center, youth ministry space and a serving kitchen for the upper hall. The facility also includes a large outdoor plaza gathering space.

From the beginning of the Phase III planning, the client expressed the desire for utilizing sustainable design practices and a holistic approach that would produce a unique environment that reflected their parish, while maintaining a strict budget. The Building Committee recognized that the long-term energy cost saving potential would allow recouping of the first cost of energy saving measures. Additionally, the parish realized that the philosophy of sustainability meshed well with the Christian belief of being good stewards of God's earth and so established that obtaining LEED certification would be a major project goal.

STRATEGIES AND RESULTS

LEED® certification of St. Elizabeth Ann Seton Catholic Church was based on a number of green design and construction features that positively impact the project itself and the broader community. These features include site selection, development density and community connectivity. There was a heat island effect on both the roof and landscape. The white membrane roof allows the facility to reduce the urban heat island affect and the landscaping design for the site incorporates the use of native, low maintenance grasses and trees. Plants were selected to eliminate the use of potable water for irrigation. Over 79% of the site is green space to the north and west is maintained, with added planting planned in the future. Low-flow toielts, urinals, and faucets were installed to reduce water consumption by 34% compared to code-compliant fixtures. A proper balance of building insulation, a geothermal mechanical system, zoned distribution, and state-of-the-art control systems contributed to an overall energy savings of 39.9% compared to a code-compliant building. When appropriate, materials composed of high percentages of recycled content were selected that resulted in value of recycled content of the materials used in the project to exceed 12%, reducing the need of virgin resources. Natural materials including locally harvested native stone were incorporated throughout the building in ways to express their true character. Using materials manufactured and harvested within the 500 mile radius lowers the energy use consumed by the project transporting materials to the construction site. Low-emitting materials, such as adhesives, sealants, paints, coatings, carpet systems, composite wood and agrifiber were used throughout the building. Daylighting was achieved in 91% of the regularly occupied spaces of the new addition. A large clerestory of insulated fritted glass surrounds the sanctuary providing diffused natural light throughout the year. The dramatic lighted space enhances the indoor environment quality and spiritual experience of the parish through the introduction of daylight that provides a connection to the outdoors and God's creation during the worship service. Construction Waste Management, 70.61% Diversion from Disposal (164.23 tons of of the 232.59 tons of waste was recycled).

ABOUT ST. ELIZABETH ANN SETON CATHOLIC CHURCH

St. Elizabeth Ann Seton strives to be a spirit-filled community of disciples in the Catholic tradition. They are known for their service to individuals, family and society through hospitality, education and acts of charity.

ABOUT MIRON CONSTRUCTION CO., INC.

Miron Construction Co., Inc. is a forward-thinking, fast-growing private company headquartered in Neenah, Wisconsin, with regional offices in Madison, Wausau, Milwaukee, and Eau Claire, Wisconsin, and Cedar Rapids, Iowa. Miron has been providing professional construction services to clients throughout the Midwest, with an expanded geographic reach across the United States since 1918, and is listed among the top general contractors in the United States by *Engineering News Record*. For more information, please visit www.miron-construction.com.







Owner: St. Elizabeth Ann Seton Catholic Church
LEED® Project Admin: Bahr Vermeer Haecker Architects
Commissioning Agent:
Energy Modeler:
MEP Engineer:
Architect: Neumann-Monson Architects / Bahr Vermeer Haecker Architects
General Contractor: Miron Construction Co., Inc.
Project Size: 28,044 square feet (new) and 21,473 square feet (existing)
Construction Budget: $5,748,029
Photography: Fisheye LLC

ABOUT LEED

USGBC's LEED green building program is the foremost program for the design, construction, maintenance and operations of green buildings, homes and communities. By using less energy, LEED-certified spaces save money for families, businesses and taxpayers; reduce carbon emissions; and contribute to a healthier environment for residents, workers and the larger community. Visit usgbc.org to learn more about USGBC and the LEED green building program.

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