

# SE2 Award Winners 2011

## **Focus on Energy Award of Excellence**

- Wisconsin Institutes for Discovery, submitted by Findorff-Mortenson Construction
- Milwaukee Job Corps Center, submitted by Continuum Architects

## **Award of Merit**

- WPPI Energy Office and Operations Facility, submitted by WPPI Energy
- Sun Prairie Creekside Elementary School, submitted by Sustainable Engineering Group, LLC

## **Special Citation**

- Gateway West Sustainable I, submitted by Hunzinger Construction
- Lake Mills Middle School Expansion and Renovation, submitted by Miron Construction
- Olga Village, submitted by Housing Authority of the City of Milwaukee
- Miron Corporate Office Expansion and Renovation, submitted by Miron Construction

## Winners of the “Focus on Energy Award of Excellence”



**Wisconsin Institutes for Discovery**  
*Submitted by Findorff-Mortenson*



**Milwaukee Job Corps Center**  
*Submitted by Continuum Architects*

# Focus on Energy Award of Excellence

Wisconsin Institutes for Discovery, submitted by Findorff-Mortenson Construction



The project is a 303,000 sf public-private research building. While focused largely on biomedical research, the design is sufficiently flexible to be a 100-year building investment. Sensibly sited and oriented on a urban site, the building benefits from state of the art architecture and engineering supported by an appropriate budget. Like for most lab buildings, LEED silver is a challenge and this building is currently seeking it.

Because labs proper use a lot of energy in many ways, the judges focused on the common areas and general approaches to lab services for SE2. Despite the need to occupy a city block, the design provides a much access to daylight and views as possible, with an atrium providing interior core daylight for spaces close to the core. There is a rational amount of glazing, equipped with automatic shades to address solar gain and glare. Energy efficient HVAC systems and rooftop solar panels are employed as well. A night flush system is used to cool the building in summer.

The jury was especially impressed with the building envelope. Triple glazing is uncommon but it makes a big difference for a lot of Wisconsin. The exterior walls consist of a terracotta rainscreen and recycled insulation. Fenestration is minimized on the problematic southwest façade and is well shaded.

This is a very attractive building, with excellent interior and exterior architecture. Lighting design is both very attractive and sensibly efficient. From every point of view, this superb structure fully deserves the jury's Excellence Award.

# Focus on Energy Award of Excellence

Milwaukee Job Corps Center, submitted by Continuum Architects



The project is a 155,000 sf, 8 building campus providing education, training, and housing for 300 students. Project goals focused on created an inwardly focused campus that reinforces community interactions. From first viewing, the judges were favorably impressed with the architecture, to the point of noting that the architecture is exceptionally appealing and could as easily be the campus of a research center or college.

The project embodies a number of sustainable features from superb stormwater management and reduced domestic water use to locally manufactured products, with over 10% of all products having high-recycled content. Site development is stunning, and a large percentage of the site is naturally landscaped.

Moreover, this project excels in two of the toughest categories, lighting and daylighting. It starts with the proper orientation of the site, and then adds a rational percentage of glazing that is shielded from the summer sun, saving summer energy yet allowing passive heating in winter. This is combined with unusually tasteful and efficient electric lighting. Overall energy efficiency is excellent.

This inspirational project illustrates a superior blend of energy efficiency, attractive architecture, and well-executed details throughout. The judges are pleased to award this project our Award of Excellence.

# Awards of Merit

WPPI Energy Office and Operations Facility, submitted by WPPI Energy



The project is a 22,000 sf addition to an existing 28,000 sf office building. The owners stepped up their commitment to sustainable buildings and efficiency with the addition, creating one of the better performing buildings in the SE2 competition. In the process, they also created a building that quietly improved both the interior and exterior architecture and affixed the addition to optimal solar orientation.

The key feature of the addition is well-designed daylighting. A sensible combination of shaded sidelighting, toplighting, and clerestory lighting infuse the interiors with responsible quantities of daylight. The architectural integration is superb, and the building operates remarkably better than the original structure. Other features of the project include significant reductions in water use, far better control of rainwater run off, and landscaping that does not require supplemental water sources. There is modest PV system and the building uses a ground source heat pump system for space conditioning. In fact, the project has all of the sustainable provisions one might expect of a high-LEED rated building.

This project vividly demonstrates that with careful design and sustainability philosophy, typical modern office buildings can be superior and in many ways exceptional with modest cost and complexity. The Judges are pleased to award this project an Award of Merit for its accomplishments.

# Awards of Merit

Sun Prairie Creekside Elementary School, submitted by Sustainable Engineering Group, LLC



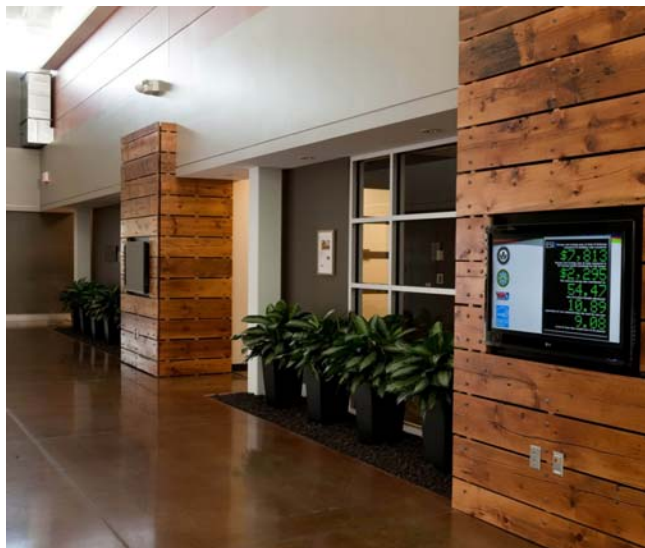
The project is a 91,000 sf newly constructed school. Its architecture features an appealing neo-collegiate façade of brick and stone, a traditional and formal appearance that belies its advanced energy efficiency systems.

The energy performance of this project is outstanding. It is Energy Star labeled with an EPA score of 99/100, and actual operating data confirms this as one of the better performing schools in the SE2 program. In addition to the usual sustainable features like stormwater management, efficient lighting, daylighting and advanced HVAC efficiency, the project also includes important details like a heat recovery wheel on fresh air supplies.

This project is also very attractive. Spaces are tastefully finished and have a cheerfulness one wants in school design. Largely on the basis of its high performance, the judges are pleased to award this project an award of Merit.

# Special Citation

Gateway West Sustainable I, submitted by Hunzinger Construction



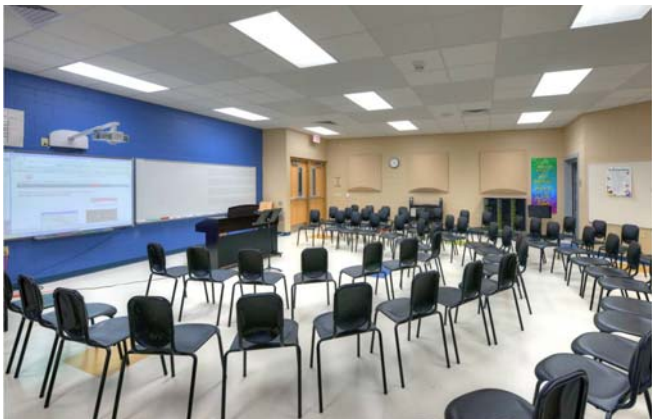
The project is a single story, 26,000 sf multi-tenant office building in an industrial park. Designed to achieve LEED Platinum and Energy Star ratings, the building promotes its mission openly in the lobby with an energy dashboard, a prominent demonstration and useful learning and teaching tool.

As with other LEED Platinum buildings, the project has a long list of sustainable features ranging from reducing heat islands, landscaping with native species, and the use of recycled building materials. For energy efficiency, the envelope is well insulated, the glazing is a sensible amount and shading improves summer cooling performance. A roof mounted, 18kW solar array complements conventional efficient lighting and HVAC systems. The building employs an optimal solar orientation to make daylighting performance possible.

The core and shell of this building are all that can be judged because tenant spaces were not included. It is a really good core and shell, and when fully occupied, one might expect very good overall performance. The judges hope that other developers are equally inspired to create sustainable tenant buildings, and are pleased to award a Citation to the project.

# Special Citation

Lake Mills Middle School Expansion and Renovation, submitted by Miron Construction



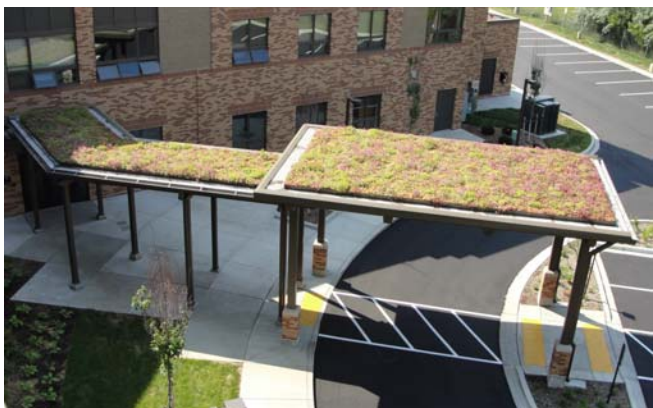
The project is a 60,000 sf addition and a 37,000 sf renovation to a Middle School that achieved the coveted LEED Platinum certification. It is appealing, sensible, and demonstrates superb planning and judgment in its overall design and integration.

It is not hard to understand how the team achieved LEED Platinum, because the list of sustainability features is extensive. The redevelopment of the existing school was harder than starting on a new site, but it typified the many prudent sustainability decisions that were made. The project features include rainwater management, native plantings, ground source heat pumps, locally manufactured products and materials, low emitting finishes, and high efficiency lighting and controls.

The judges noted how tastefully the project was designed and made excellent use of an obviously modest budget. The school's advanced teaching and learning program is clearly enhanced by the superb choices made in the interior plans and finishes. Daylighting and views were provided whenever possible, given the limitations of the project's renovations. This school is indeed Planet Friendly and well deserving our Citation award.

# Special Citation

Olga Village, submitted by Housing Authority of the City of Milwaukee



The project is a 37-unit apartment structure for senior living. Set in an existing urban neighborhood and designed to provide affordable and sustainable housing within a culturally rich, moderate income and multi-lingual community, this handsome structure seeks to prove that sustainable and efficient design is possible in this critically important type of building.

Architecturally, the design is contextually correct for the older urban neighborhood, avoiding modern flourishes in favor of brick walls and clean lines. In addition to quality craftsmanship and good choices for interior materials and finishes, the project features many green qualities under its skin, from a rooftop solar hot water collector array and green roof to its ground source heat pump system and underground water retention structure.

On a project like this, the judges expected to find Energy Star appliances and efficient electric lighting, and the project of course has these features. But it was the thoroughness of the project to include hidden features like ground source heat pumps that is uncommon and makes this project special. We are pleased to award a Judge's Citation in recognition of the embodiment of sustainable and efficient technologies on a project of such everyday great importance.

# Special Citation

Miron Corporate Office Expansion and Renovation, submitted by Miron Construction



This project involves the sustainable renovation of a 60,000 sf office building and the addition of over 50,000 more. The distinctive new architecture is cleverly connected to the existing building, despite differences in material and style. Symmetrical additions lend to the cohesiveness of the project.

Inside, the project's interiors are outstanding. The use of wood throughout lends a sense of warmth and strength, without appearing heavy or appearing too much as a lodge or hotel. To the contrary, this may be one of the most appealing work environments in the SE2 program.

The alterations and addition include many important and sustainable provisions. A white roof was added, a ground source HVAC system was used, and many LEED points were possible through appropriate materials selections, use of low emission paints and adhesives, and the installation of reduced domestic water use fixtures. State of the art lighting and a lighting retrofit of the original structure ensure moderate energy use, while remaining attractive and warm. Extensive use of sunshades for the southeast and southwest exposures contributes to cooling season efficiency.

Although the energy efficiency of this project is modest, it remains an overall good example of how an addition can be used to make an existing structure more appealing and sustainable at the same time. The judges are pleased to award this project a Citation for its accomplishments.