

ENERGY STAR Building Design Profile

Kohl's Department Store - Michigan City, IN
Michigan City, IN 46360



Kohl's recognizes the importance of energy efficiency and has had a long history of focusing on this initiative. Kohl's enters every store into the EPA's Portfolio Manager website and more than 760 Kohl's stores are ENERGY Star-labeled to date. As the prototype design consultant for Kohl's, SGA Design Group, P.C. shares Kohl's commitment to the environment, including energy efficient design, and we recognize the following benefits of the Designed to Earn the ENERGY STAR program:

- Projects that achieve the Designed to Earn the ENERGY STAR certification are designed to reduce energy and CO₂ emissions.
- It was important that our project achieve Designed to Earn the ENERGY STAR because it signals to the market that the project is intended to perform in the top 25% of the nation's most energy efficient buildings. **SGA Design Group, P.C.** is also helping the environment by delivering a low energy design to our client, which in turn sets the stage for operating the building to actually earn the ENERGY STAR label. ENERGY STAR buildings have a proven track record and yield average annual energy savings of 30 percent.
- Projects that achieve the Designed to Earn the ENERGY STAR also promote future financial benefits from reduced energy costs over the life of the building.
- Target Finder was helpful in evaluating how various design strategies affected the energy estimates for the project.

The project's energy efficiency specifics include:

- The projected annual energy and CO₂ savings of the design is **44 percent** as compared to the median building.
- The estimated total annual energy savings for this project is **5,286,809 kBtu** with an estimated cost savings of **\$39,935**.
- Some of the primary energy saving features included in a typical Kohl's building include the use of a centralized Energy Management System to control lighting, HVAC and ventilation systems, the use of a High-efficiency lighting system including the use of LED spot lights and occupancy sensors in offices and restrooms and a reflective, white TPO roof to reduce the Heat Island Effect and the building cooling load.



Architect of Record:
SGA Design Group, P.C.

Engineering Firm:

Larson Binkley

Building Owner:
Kohl's Department Stores, Inc.

Design Energy Rating:

85

Percent Energy and CO₂ Reduction*:
44

Design Year/ Estimated Occupancy Date:

September 29, 2013

Space Type:

Retail

Floor Space:

55,006 sq ft

Estimated Energy Use Intensity:

125 kBtu/sf/yr

Estimated Total Annual Energy Use:

2,226,354 kBtu/yr

Estimated Annual Energy Cost:

\$51,805

Technologies Specified:

- Energy Management System
- LED lighting
- TPO White Roof to reduce the Heat Island Effect
- Occupancy Sensors
- Renewable Energy credits
- Water efficient plumbing fixtures

For More Information

Contact Marnie Phelps at

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*Percent Energy and CO₂ Reductions are based on comparison to a median building of similar type.