

Project Profile



Temple Kol Ami West Bloomfield, MI



LEED Facts

Temple Kol Ami,
West Bloomfield, MI

LEED for Commercial Interiors
Certification awarded March 2016

Certified **21***

Sustainable Sites	2/7
Water Efficiency	2/2
Energy and Atmosphere	4/12
Materials and Resources	5/15
Indoor Environmental Quality	5/17
Innovation in Design	3/5

*Out of a possible 57 points

Key Strategies:

- Reduce water use both inside and outside
- Optimize lighting controls and use
- Optimize HVAC efficiency and operation
- Maximize use of recycled material
- Use materials from less than 500 miles away
- Educate the congregation about energy efficiency



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Project Background

In 2008, Temple Kol Ami (TKA) embarked on a major construction project to add 2,300 sq. ft. to both the basement and main level to expand offices and create a new education wing. TKA clergy and leadership wanted to ensure environmentally responsible construction and a healthy indoor environment.

Strategies and Results

The Temple's building committee worked closely with the architect, contractor and Newman Consulting Group as the LEED consultant. Guided by principle of Tikkun Olam (Repairing the World), they made the many decisions about architectural and engineering design, materials, sources, etc.

Outside:

- Installed white roof membrane to reduce the heat island effect.
- Installed high-efficiency HVAC units for the addition and the remodeled areas.
- Added a detention area and bio-swale for storm water management.
- Installed bike racks and showers for student, teacher and administration use

Inside:

- Installed high efficiency lighting and plumbing systems and automated them to reduce energy consumption and potable water use.
- Used paint, caulk and sealant materials with low or zero VOCs (volatile organic compounds).
- Purchased only recycled plastic furniture for classrooms and carpet from recycled materials.

By the Numbers:

- 33%: Estimated electricity savings from using light switches with occupancy sensor controls and efficient HVAC equipment.
- 82: Tons of construction waste was diverted from landfills (83% recycling rate).
- 100%: Concrete supplies from less than 200 miles away. This helps keep transportation emissions to a minimum and reduces the carbon footprint.
- 100%: amount of steel manufactured within 500 miles of the site, most from recycled sources.

Temple Kol Ami strives to educate the congregation, religious school families and visitors about the sustainable elements in the building. They are proud to set this example of Tikkun Olam and provide a healthy classroom experience for religious school students and their teachers.

About Newman Consulting Group

Newman Consulting Group, LLC (NCG), Farmington Hills, MI, is a globally recognized authority in energy efficient buildings. NCG works with architects, engineers, building owners, facility managers and contractors in Michigan and around the world to design and build more energy-efficient buildings to LEED®, Energy Star® and other sustainable guidelines. The NCG team of highly skilled engineers, analysts, program managers and certified professionals helps commercial, industrial and multi-family property owners all over the U.S. implement energy efficiency projects (including renewable energy), eliminate waste, and save money through innovative financing.

About LEED

The LEED® certification program is the national benchmark for the design, construction, and operations of green buildings. Visit the U.S. Green Building Council at www.usgbc.org to learn more about LEED and green building.