

Wisconsin Green Building Project Profile

Kettle Foods Inc
3150 Kettle Way
Beloit, WI 53511

BACKGROUND

Beloit was chosen for the Kettle Foods' 73,500 ft² location due to the city's position in the middle of the largest growing regions for the Russet Burbank potato. The economic incentives from the state also played a major role in locating Kettle Foods in Beloit.

The Beloit facility's commitment to renewable energy and environmental innovation is remarkable. Kettle Foods makes conscious and thoughtful decisions to grow sustainably and to give back where they take away. The company offsets 100% of its electricity use through the purchase of wind power credits and its cooking oil is recycled into biodiesel that fuels a fleet of company vehicles, resulting in an annual reduction of 8 tons of CO₂ per year.

Kettle Foods has a focus on environmental sustainability for all of its facilities and the company wanted to make the greenfield at the Beloit plant as environmentally friendly as possible.

RESULTS

The facility saves about 1.65 million gallons of water through the filtering and reuse of potato wash water. By diverting excess filtered water to facility restrooms, 120,000 gallons of water will be saved annually.

The cooking oil from the Kettle Foods plant is reused throughout production and the by-product is converted in biodiesel fuel.

High efficiency equipment was installed to reduce the use of natural gas and electricity. Overall efficiency results in the prevention of approximately 16.7 million pounds of CO₂ from entering the atmosphere annually.

More than 35% of the building materials were harvested, manufactured or extracted within 500 miles of the plant, more than 75% of construction waste materials were recycled or salvaged and the 5 acres of prairie surrounding the plant was restored using native prairie grasses.

The plant has 18 wind turbines on the roof, generating 28,000 kW/h of electricity annually - enough to produce 56,000 bags of potato chips.

The plant's electricity use is offset by wind power credits. The company purchases 8,750,000 kW/h of renewable energy credits annually.

The construction team used environmentally friendly materials such as YOLO Col-ourhouse, a zero-VOC paint.

In September 2008, one year after the plant opened, Kettle Foods had an annual energy savings of 20%, with an estimated cost reduction of \$110,000 on natural gas and \$51,000 on electricity. In addition, reclamation systems allowed capture and reuse of 3.4 million gallons of water, giving the factory annual water savings of \$34,000. The facility also recycles 2,300 gallons of waste oil every month, which is converted to biodiesel and used to fuel a fleet of 'Bio-Beetles' diesel Volkswagen Beetle cars.

PROJECT INFORMATION

Date of Completion: September, 2007
Architect: Flad Architects
Owner: Kettle Foods Inc.
General Contractor: ACS Inc.
Consultants:

- Energy: Affiliated Engineers, Inc.
- Structural: Flad & Associates
- Mechanical: Affiliated Engineers, Inc.
- Landscape: Tallgrass Restoration
- Environmental: Tallgrass Restoration
- Electrical: Affiliated Engineers, Inc.
- Civil Engineer: Batterman & Co RH
- Engineer: Affiliated Engineers Inc
- System Controls: Affiliated Engineers, Inc.
- Construction Manager: ACS Inc
- Commissioning: The Durrant Group Inc.

Green Building Awards

- 2008 Wisconsin Manufacturer of the Year Award for Sustainability
- 2008 Environmental Leadership Award - Beloit Chamber of Commerce Award
- 2008 AGC of Wisconsin Environmental Excellence Award
- 2007 National Wildlife Federation for Backyard Wildlife Habitat
- 2007 Big Diverter Nominee for Waste Cap WI

Category: LEED Certification - Gold



For more information about the building please check out the sustainable building website at: <http://www.kettlefoods.com/about-us/sustainability/green-building/> or Kettle Foods homepage at: <http://www.kettlefoods.com/>