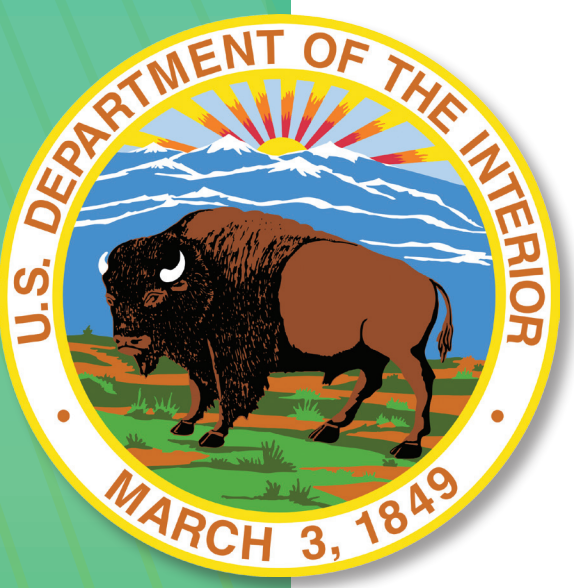


Federal Energy and Water Management **AWARDS** 2014



**Debbie Beck, Tiffany Breske, Andrew McDermott,
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**U.S. Fish and Wildlife Service | Upper Mississippi River
National Wildlife and Fish Refuge Headquarters and
Visitor Center**
La Crosse District, Wisconsin

In FY 2013 the U.S. Fish and Wildlife Service completed a high performance Leadership in Energy and Environmental Design Silver-rated, 11,759 square foot Headquarters and Visitor Center at the Upper Mississippi River National Wildlife and Fish Refuge. A 74.86-ton ground source heat pump, three solar hot water collectors, and a 35.88 kilowatt grid-tied solar PV array generate 313 million Btu of renewable energy that will save at least \$4,700 annually.

Energy efficiency strategies throughout the all-electric building include: passive solar energy architecture; thermal mass; superinsulation; a cool

roof; abundant daylighting; low-e glazed operable windows; energy-efficient fluorescent and light-emitting diode lighting; and occupancy sensors and timers.

Low flow water fixtures conserve almost 30,000 gallons of potable water annually, along with a 3,000 gallon rainwater harvesting and containment system that provides water for flushing toilets and urinals. Located in scenic Brice Prairie at the gateway to the Refuge, the attractive facility teaches more than 30,000 visitors a year about the benefits of sustainability.