FdL couple harnesses solar power, sells it back to the grid

Social to the Reporter
Can you imagine watching your electric meter roll backward—legally!
Jeanne and John McDow-ell know that delight, thanks to the solar panels they installed on their bome's roof last fall. The 18 panels on the back of their home of the panels on the back of their home of the panels on the back of their home of the panels on the back of their home of the panels on the solar panels of the panels on the panels of the p

energy an appliance burns in one hour, and a compension of the provided and the second of the second

Conservatives

Their life experiences and current living situation influenced the McDowells' decision to install the solar panels. Together, the couple has lived and worked abroad as teachers for a number of years in Germany and Japan, where solar panels may be compulsory in all new construction by 2030, according to a May report in the Nikkei business daily. "We've lived in countries where energy is more expensive," Jeanne noted. "And, we've always had an environmental conscience." On a recent trip to visit

environmental conscience."
On a recent trip to visit John's family in England, the couple noticed solar panels on private homes and public buildings. "Even older buildings with tile roofs," Jeanne recorted. "And in Arizona, we have seen solar panels and rain gardens all over the area, with sunken rain tanks (for long-term water collection and storage)."
When the couple returned to the United States in 2006 to live in Jeanne's Fond du Lac hometown, they soon purchased an energy-efficient home built in the early 1960 during an earlier energy crunch. earlier energy crunch. They added a tankless hot water heater, rain barrels, They added a tankless hot water heater, rain barrels, a vegetable garden, a rain swale garden certified as a wildlife habitat by the National Wildlife Fund, fruit trees, and native shrubs. Both are longtime volunteers at the Gottfried Prairie and Arboretum on the UW-Fond du Lac campus.

The solar panels seemed like a logical next step. "We consider ourselves conservatives," John Mc-



e backyard of their home at 77 Eastbrook Lane in Fond du Lac. The McDowells a business generating solar power. (Patrick Flood/The Reporter)

day, Aug 7.
Ticket prices are \$10, with a special \$8 rate for participants who bilke the \$5-mille route. Children under 12 are free. Profits will be used for habitat restoration the Fond du Lac area and for public environmental education opportunities. The tour is self-guided and at participants convenience during the scheduled hours. Tick ets can be purchased at any of the featured sites.

res.

For more information, call (920 922-7931, nail dbeck 7931@charter net, or view the ydubon website www fdlaudubon org. The featured sites are:

Earth-friendly yards on view via Zoopolis

powell said. "We have a genuine belief in not squar-dering our natural, resources. We are conservative people. "May initial decision was based on two things," he continued. "If gelt a moral obligation that if we could do it, we should do it. And the more I researched, it looked like a pretty good financial deal. So it was a combination of incentives and a return on investment — and a moral obligation to do it."

Return on ent

The McDowells acknowledge that their ability to pay for the solar panel installation without borrowtening money was an important part of their decision. Their records show the total cost of the project came in at slightly over \$28,000. A Focus on Energy grant, a federal tax credit and the money earned through electric generation combined to provide a credit totaling approximately \$6,500 in 2010. (The federal tax credit solar will be applied in 2011).

The McDowells did the math and report that amount equals a 23 percent return on their investment in 2010.

John an the UW-Food da-Lea mathematics faculty and Jeanne as a University of Maryland and line biology instructor and local yogs teacher-considered their retirement years when making their decision to institute the same than the source of the same than the same than

in per and generally sup-ty more expensive: the Sanyo 215w N Series It is 4 kilowart system and is more efficient and gets more performance." Funk also completed the grant paperwork.
"No glitches," John Mc-Dowell reports.

Dowell reports. Careful consumption

Careful consumption
In conjunction with their
solar panels, the McDowells have embraced Alliant
Energy's time-of-day pricing plan. When they use
electricity between 8 a.m.
and 8 p.m., they are
charged at a rate of about
19% cents per kilowatt
hour. When they use electricity before 8 a.m. and
after 8 p.m., their rate goes
down to approximately 5
cents per kilowatt hour.
"Even without solar panels, the time-of-use plan has
a lot going for it," Jeanne
McDowell said. "Five cents
versus 19 cents is a significant difference."

me washing machine, are a little clothes dryer, dishwasher and oven during off-peak

and oven during off-peak, hours.

John McDowell compares their increased appreciation for electricity to the appreciation they developed for water after installing rain barrels outside their home.

"It's the 'rain barrel effect," he said. "When you collect something like water, you don't dump it willy-nilly. You become mindful and use it carefully. Now that we make our electricity ourselves, we conserve it even more."

conserve it even more."
Freelance writer Monica
M. Walk was raised in a
Wisconsin family dedicated
to the building trades. She
has fond memories of a ribbon-winning, grade-school
science project on solar energy constructed with her
fother's advice. er's advice.

Have a Home topic you'd like covered? Email Monica Walk at walkthetalkcom munications@gmail.com.



