

Innovation Center for U.S. Dairy focuses on farm energy audits that will help farmers save money, become more sustainable

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MADISON

knows that farmers are good the farm "greener", says Mad- analyst for sustainability with the bottom line. stewards of the resources they dox, who is vice chair of the Innovation Center for U.S.

Those changes can save the Dairy Expo in Madison.

improve their energy use on the and farm reporters about farm it helps them improve efficien-

may be things they could do to U.S. Dairy, he spoke to farmers cut their costs and save energy,

farm as technology improves. energy audits during World cies. Inefficient equipment may be cutting into the dairy opera-Dairy farmer Steve Maddox farm money as well as making Robert Madeja, a business tion's profitability and affecting

Farmers who have done an use to produce milk and take National Dairy Board. Working Dairy, said not only can energy energy audit, like Maddox, find care of their cows. But there with the Innovation Center for audits offer farmers a way to that energy efficiency savings translate into cost savings and a legitimate claim that they are reducing their emissions of greenhouse gases - what is sometimes called their carbon footprint.

> Madeja says that by making changes that reduce energy use, farmers can reduce their monthly operational utility costs, boost their on-farm conservation efforts and help improve the public perception of the dairy industry. On-farm energy solutions and resources can be located at www.USDairy.com/

SaveEnergy, he said. That site guides producers to resources that are available for energy audits and financial incentives. In Wisconsin one of those resources is "Focus on Energy," he noted. Some of the things energy auditors test and analyze are lighting, ventilation and other kinds of electrical equipment.



PLENTY TO WINE ABOUT: A copious harvest of Concord grapes in Manitowoc County promises rich rewards in the form of luscious drinks and jellies. (Photo by Carole Curtis)

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audits help farmers learn about grid. It's helping everybody." their energy use, find ways to A typical farm energy audit

on his farm was "intense" and use. took about three days. For most farms an audit of this type can no had been given the term "the be performed in the span of original mega-dairy" and now about four hours, he hastened has 4,200 cows with 95 perto add. When he found out cent of them registered with the what it was costing his opera- Holstein Association. In all, the adds. tion in inefficient equipment, it operation has 10,000 animals, was eye-opening, Maddox said. including the young stock. "We

Things like variable-speed love cows," he said. vacuum pumps, chilling and into the cost of newer, more ef- tries, he said. ficient equipment and a return on investment is given to the were doing a lot in terms of en- said. farm, he said.

saving energy, Maddox said.

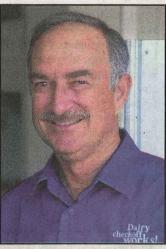
The effort to boost farm ener- Maddox said. "It's good for the gy efficiency was launched about community to save this energy. two years ago, said Madeja. The It lessens the pressure on the

reduce it and thus save money will plot out the return on inon their operations. It also gives vestment for newer, more efthe dairy industry a legitimate ficient equipment. Something claim to making farms more like a variable speed motor can sustainable in their energy use. be paid for in energy savings in Maddox, who has a large as little as 14 months, Maddox dairy operation near Fresno, said. On the audits he has seen, California — one of the first farmers are pointed to ways that very large dairies in the nation can save them anywhere from - said the audit performed 10 to 35 percent of their energy

Maddox said his farm in Fres-

pre-cooling equipment for has grown in size but also in tion Center for U.S. Dairy and milk, heat-recovery units as well terms of it's the quality of the each comes at the challenge of as lighting and ventilation sys- genetics. Eighty head of cattle sustainability from a different sors in your bulk tank? tems are prime places for farm- on their farm are rated Excellent angle, and with its own set of ers to save money, he said. The and they export 3,000 embryos resource, he said. "By leveraging heat unit or free heater? savings in energy is calculated each year to eight or nine coun-money and bringing in partners,

ergy savings and energy sustain-



STEVE MADDOX Vice Chair, National Dairy Board

dairy farmer checkoff money to the project, there are 200 mem-The family's herd, he said, ber companies in the Innova- in your system that uses ground we can do more as a group than fans older than five years? Thirty years ago they felt they we can do separately," Maddox

Electric utilities in many areas ability, Maddox said. The family U.S. Department of Agriculture's day? have programs to help farmers had even built a foundation for Natural Resources Conservaperform well. Today many peo- noted that a farm energy audit halide or T12 fluorescent? "Margins are tight enough for ple still think only of methane requires very little effort, time

to request an Agricultural Energy Management plan or they can call a farm energy expert at Center for U.S. Dairy and the in February 2012. Those farms 800-732-1399.

now," she said, during an in- ognize dairy farms, businesses a chance to tell their stories to a terview at Expo. "Energy audits and collaborative partnerships national audience and advance will give them a road map to the for efforts that show economic, the idea that the dairy industry future. This is a priority for the environmental or social benefit is looking ahead to sustainabil-USDA. It has been elevated to a to help advance the sustainability, Maddox said. resource concern."

The federal agency, she said, is supporting the program as a ability awards will be given in World Wildlife Fund. A panel of partner and there are field repreture categories — farming, judges who will judge the nomsentatives who work with farm- dairy processing or manufactur- inees in the contest was recently ers on these concerns.

ergy audit are these:

- In addition to bringing in use a variable-speed drive in USDairy.com/Sustainability/ Wisconsin-Madison. your milking system?
 - Do you have a plate cooler water to cool the milk?
 - Do you have scroll compres-
 - Do you have a compressor
 - Are some of your circulation
- · Are there any large motors on the farm that are old and One of those partners is the run for more than five hours per
- Are there older lighting with low-interest or no-interest a methane digester, but he says tion Service. Rebecca MacLeod, systems on the farm like incanloans so they can install more they never found one that they the national energy efficiency descent lights that could be upefficient equipment and begin felt would work for them and liaison with the USDA agency, graded to mercury vapor, metal

Maddox noted that improvedairy farmers without spend- digesters when they think of or cost to the farmer. Funds are ment in energy use on these ing money on energy that they farm energy sustainability, but available through the NRCS to very systems can provide immedon't need to be spending," it's so much more than that, he finance farm audits. Farmers can diate benefit to dairy producers

contact their local NRCS office in hard cash through savings of Awards. The nomination pe-

Dairy Research Institute are be- and businesses chosen for the "We are urging farmers to act ginning a new program to rec- honors in this program will get ity of the dairy industry.

ing and energy conservation or announced and it includes Some of the questions farm- generation. Farmers or those in several Wisconsinites — Steve ers can ask themselves to decide the other categories can nomi- Larson, managing editor of if they can benefit from an ennate themselves (there is no fee Hoard's Dairyman and Dr. Molly for the nomination process) or Jahn, professors in genetics and · Does your vacuum pump get more information at www. agronomy at the University of

riod runs through Dec. 1 and In addition, the Innovation the awards are to be announced

The awards program is being These "U.S. Dairy Sustain- supported by the USDA and the