

HOME ENERGY AUDITS

ADAMS ELECTRIC OFFERS FREE, IN-PERSON, WALK-THRU HOME ENERGY AUDITS TO MEMBERS. During consultations, an energy specialist will sit down with you and discuss your reasons for completing the audit. Do you want new heating and cooling? Are you trying to make your home more energy efficient? Make sure to know the goal you are trying to accomplish by conducting the audit. After gathering as much information as possible, you will receive specific recommendations to help you achieve your goals. If you have any follow-up questions about your recommendations, contact the co-op and a member of the energy use team will be happy to discuss your options with you.

For more information or to schedule an audit, call 717/334-9211 or toll-free 888/232-6732.

ONLINE ENERGY ANALYSIS: For the do-it-yourselfer looking to make some quick changes to your home to increase its efficiency, look no further than Touchstone Energy's Together We Save energy programs found at adamsec.coop. Part of Together We Save, the **Home Energy Savings Tour**, allows users to "see the savings add up" as they click through different rooms in a house and add projects to their to-do list. The **Home Energy Analysis** tool takes a more specific look at your home, based on system inputs. After you enter information about your home (year built, size, occupants, etc.) the program will offer you specific ideas on how you can save money on your energy bill.

ENERGY EFFICIENCY LOANS



Residential Adams Electric members may apply to finance the installation of solar panel or home energy upgrades at their

home with a loan from National Cooperative Bank (NCB). This provides a flexible option for members to spread their cost over multiple years instead of having to make a large up-front cash payment. Options may include...

ENERGY CONVERSION SYSTEMS:

- Solar
- Wind
- Hydropower
- Biomass
- Geothermal

HEATING/COOLING SYSTEMS:

- Heat pump systems which reduce consumption of electricity, including air-source and ground-source systems
- Heat Pump Plus installations
- Electric Thermal Storage (ETS) units
- Other off-peak installations (U-Shift, U-\$ave)

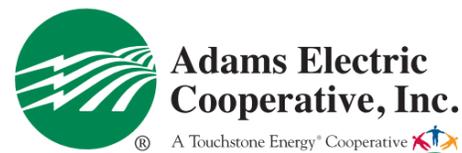
WEATHERIZATION PROJECTS:

- Insulation (ceiling, wall, floor, duct, pipe, water heater)
- Storm or thermal doors and windows
- Attic ventilation fan installations

For more information or to apply online visit adamsec.coop and click on "Energy Loans," under "My Benefits."



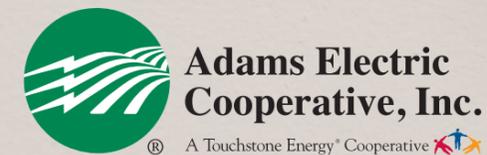
CEO/General Manager Steve Rasmussen visits James (Ed) Beard of Lewisberry and his renewable energy system that is interconnected to the co-op's power grid. Beard installed a 10.34-kilowatt (kw) ground-mounted photovoltaic system at his residence in York County. Nearly 170 renewable projects have been connected to the co-op's distribution system.



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PREFERRED

HEATING + COOLING



ELECTRICITY PROVIDES A VARIETY OF BENEFITS

Heat pumps are highly efficient and help to maintain a comfortable home. In the warmer months, the units extract heat from inside your home and send it outdoors. In the cooler months, they do the opposite, bringing warmer air indoors from the outside. They can be paired with fossil fuel furnaces in a "dual-fuel" combination or with an electric thermal storage (ETS) unit that moves the use of electricity to off-peak periods as part of the co-op's U-Shift, U-\$ave program.



GROUND-SOURCE HEAT PUMPS

A geothermal or ground-source heat pump has the lowest operating cost of any heating or cooling system on the market. Using ponds, streams or underground loops in wells, the units collect heat from the ground in the winter and disperse heat into the ground during the summer.



AIR-SOURCE HEAT PUMPS

During cold weather, an air-source heat pump absorbs heat from the air outside and transfers it indoors. During warmer weather, the pump extracts heat from inside a building and pumps it outside. Heat pumps are especially efficient in spring and fall, when there may be a need for both heating and cooling comfort.



HEAT STORAGE

ELECTRIC THERMAL STORAGE

Electric Thermal Storage (ETS) units are designed to use off-peak electricity for heating a specific space (living room, family room, bedroom or basement). During off-peak hours, when electricity costs are lower, an electric coil heats high-density ceramic bricks inside the unit. The bricks store heat for at least 12 hours. The stored heat is released to warm individual rooms during peak hours when rates are higher.



HEAT PUMP PLUS

Heat Pump Plus systems combine an air-source electric heat pump and an interruptible electric thermal storage (ETS) unit. Ceramic bricks inside the ETS booster are heated electronically, off-peak. The ETS acts as a backup to the heat pump when the outside temperature drops below freezing. It also monitors the temperature of the air to assure maximum comfort.

SHIFT YOUR ENERGY USE AND \$AVE

The co-op's U-Shift, U-\$ave program moves the use of electric water heaters, heating and cooling systems and other interruptible equipment to off-peak hours. As the name implies, members benefit when they shift their use of electricity to non-demand hours. Help reduce expensive demand peaks which take place on the coldest winter weekdays and hottest summer weekday afternoons by joining 10,000 other members who shift their use.



AIR CONDITIONING



OFF-PEAK RATE



TURN OFF, TURN UP

U-SHIFT AIR CONDITIONING asks members to allow an interruptible switch to be installed free of charge (a \$215-value) on their heat pumps and central air units and earn a seasonal bill credit for the months of June, July and August.

U-SHIFT OFF-PEAK RATE asks members to install an interruptible separately-metered subpanel and meter base (at their expense), but then provides about a 50 percent rate reduction in the energy supply section of the bill for all the electricity that flows through that subpanel which may be interrupted by the cooperative during peak demand hours.

U-SHIFT TURN OFF, TURN UP asks members to turn off major appliances and turn up their thermostats a few degrees on the hottest weekday afternoons between the hours of 1 and 7 p.m. These may include dishwashers, and washers and dryers. Members are encouraged to use the microwave or barbecue grill to cook their meals during these critical hours.



Above, members sign up to have a U-Shift Air Conditioning switch added to their heat pump after hearing a presentation at an Adams Electric member (zone) meeting. The diagram on the right shows where the U-Shift switch is connected to your home's central air unit.

**Note: Adams Electric cannot guarantee the duration or extent of any periods of interruption due to the ever-changing nature of electrical demands on the power grid which provides power to the co-op's substations and metering points. Members participating in the U-Shift incentives must understand that periods of interruption can be extended without notice due to unforeseen circumstances on Adams Electric's distribution system and/or the energy supply grid.*

