



Fossil Fuel

Make Green Choices



Use alternate energy

Preserve resources



A Cleaner Environment

AMES

The Program

The *Green Choices* program helps reduce our dependence on non-renewable fossil fuels such as coal. It also aids in the development of a diverse mix of energy resources for Ames. This allows citizens to take an active role in promoting green energy.

Contributions to the Green Choices program will aid in the development of new green energy technologies. Participating in green energy programs is a great thing to do for our environment.

Fact:

Ames is the home of the Arnold O. Chantland Resource Recovery Plant. Built in 1975, it was the first municipally operated waste-to-energy facility in the nation.

Ames is a leader in using renewable energy. Ames Electric Services is pleased to offer this program to prepare for future generations.



The City of Ames has been and remains a leader in studying and implementing alternative energy and alternative fuel sources.

Municipal Solid Waste Processing: In 1975 Ames began processing municipal solid waste into Refuse Derived Fuel (RDF). The process provides three unique benefits. First, the City is able to reduce the amount of coal it burns at the Power Plant by substituting in RDF. Second, additional components prevalent in the waste stream are removed. Metals are extracted by giant magnets and sold to a local scrap dealer for recycling. Glass is sorted out by color, then crushed and made available for landscaping, construction, and golf course sand traps. The remaining non-burnable material is sent to a landfill. Since it is shredded, it takes up much less volume than it would if it were buried whole.

Wind: In 2007 the City of Ames has embarked on a study to build a "wind farm". The City of Ames together with Iowa State University has joined with several other municipal electric utilities in the state to investigate and possibly build a 100 megawatt wind farm.

Biofuels: Being in the heartland of corn country, we are all familiar with ethanol and its ability to blend with petroleum gasoline. In working with area experts, the City is testing new methods to produce "bio oils." Bio oils can be produced from nearly any carbon-based product, from RDF, to waste wood, to corn stover. These oils would be an alternative to petroleum-based gasoline rather than an additive.

alternative energy

Alternative energy resources, often called green energy, include agricultural crops plus residues, wood scraps, wind, solar, waste management, resource recovery and refuse derived fuel.

Agricultural Residues

Agricultural by-products are one of the most prevalent resources in the state of Iowa, but are not widely used for power generation in the United States. Corn stalks could generate more than three times the amount of energy available from all forms of wood waste, excluding forest residue.

Wood Scraps

The most commonly used biomass fuel for heat and power is wood. Wood can be obtained from manufacturers, discarded wood products, yard trimmings or non-hazardous wood debris from construction and demolition activities.

ENERGY
Solar
Wind

Wind is the most common non-fossil fuel generation resource. It can be used to generate electricity for a single building or for a power plant.

Solar energy is flexible and can be used in several different capacities. It can be used to generate electricity for a single building or for a power plant.

Contribution Form

Yes, I would like to participate in the Green Choices Program through this donation.

- I would like to make a one-time contribution of \$ _____
- I would like to make a monthly contribution to be added to my utility bill of:
 - _____ \$2 /month
 - _____ \$5 /month
 - _____ \$10 /month
 - Other amount: _____ /month

Name _____

Address _____

Account Number _____

Phone _____

***Monthly contributions will be automatically added to utility bills until a customer contacts Utility Customer Service or the account is closed.*

To change you contribution level or cease your contributions, contact Utility Customer Service at **515-239-5120**.

Send form to:
Utility Customer Service
515 Clark Ave.
Ames, IA 50010



The City of Ames Electric Services is offering a voluntary monthly contribution program, which will accrue donated funds for the development of future alternative energy resources.

Ames residents can contribute to the development of new alternative energy resources through this program.



The Resource Recovery Plant produces enough RDF to help the Power Plant provide the equivalent electricity to more than 4,600 Ames homes each year.

For more information on Green Choices, alternate energy, or other *Smart Energy* programs, contact the City of Ames Electric Services at 515-239-5177 or go online at www.cityofames.org



Using Resources, Resourcefully.



City of Ames
Electric Services

Green Choices Alternate Energy Funding

