

Conservation Achievement Report

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Modern Electric Water Co

Contact Info: Name: _____ Phone: _____
 Website: _____

<u>Savings</u>	Conservation Acquired by Calendar Year			<i>Projected</i>
	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>
Kilowatt Hrs per year	517,702	108,987		
Kilowatts (optional)				
<u>Expenditures</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>
Total Dollars				
BPA-funded				
Utility-funded				
Other-funded				

Energy Savings and Expenditures by Sector by Calendar Year if available

<u>Sector</u>	<u>1997</u>		<u>1998</u>	
	kiloWatt Hours	Dollars	kiloWatt Hours	Dollars
Residential	36,390		7,032	
Low-income portion included in above				
Commercial				
Industrial				
Irrigation				
System Improvements	481,312		101,955	
Other				

<u>Sector</u>	<u>1999</u>		<u>2000 Projected</u>	
	kiloWatt Hours	Dollars	kiloWatt Hours	Dollars
Residential				
Low-income portion included in above				
Commercial				
Industrial				
Irrigation				
System Improvements				
Other				

Comments

Conservation efforts during 1997:

Public Education

- Kids in the Creek - Stream Restoration Program
- Arky and Sparky Electric Safety show

Conservation measures related to Well Rehabilitation Program

- Walls have been built and ceilings have been insulated.
- Windows have been eliminated and insulated doors have been installed.
- Thermostatically controlled central heating has been installed.
- New pumps and/or existing well pumps have been reconditioned and the pumping curves modified, resulting in more efficient pumping.
- Lighting in well houses has been upgraded.

Conservation effort during 1998:

Public Education

- Kids in the Creek Program
- Modern Electric Water Company continues work with area schools in this stream monitoring classes every spring.
- Modern Electric Water Company also offers a summer program of 4 classes for area children.

--Arky and Sparky Program

--Safety demonstration program

--Valleyfest Booth: Modern Electric Water Company distributes safety and conservation pamphlets during this event.

Energy Audits

--Conducted for Pyrotech, CV School, and Billy's Wild Horse Saloon.

--Reports were delivered to the above users. They were informed of the energy savings on various retrofits.

In-house Conservation Efforts

--Insulated Modern Electric Water Company pump houses.

--Replaced old heating and cooling units with more efficient models.

--Reconditioned pumps for better energy efficiency.

Conservation Efforts for 1999

Conservation incentives on energy efficient washers and water heaters:

--7 heaters and 5 washers.

--Upgrade 5 miles of power lines and 45 transformers.

Public Education

--Kids in Creek, Arky Sparky Show, Quarterly newsletter, and various energy saving informational pamphlets.

In-house Conservation Efforts

--Putting in a waste oil burner for heat in the garage (using 400 gallons of waste oil a year).

--Remodeled all old pump houses, added more insulation and electronic heat register to regulate temperature.

--An intensive vehicle maintenance program to ensure clean burning of gasoline and better mileage.

--New 208s around the company's grounds.

Assisted a motel in retrofitting it with compact fluorescent lighting.

Conservation effort during 1999-2000.

1. In May 2000, we completed construction of our new office complex. It is all electric, highly efficient, and low maintenance. The building envelope insulation systems were designed with R-values 20% above Washington State Energy Code requirements, (R19-22 walls and R30-38 roof). All structural brick and CMU exterior walls were filled with foam insulation. Then to break thermal bridging and add R-value 1 ½ inch of foil faced polyisocyanurate rigid insulation was adhered to the inside face of the masonry. Hat channels and gypsum board were then placed over the insulation to create an open cavity that functions as an insulating air space and electrical conduit chase. Utilization of "cool day lighting" strategies were used to decrease the electric lighting levels to 20 percent below the Washington State Energy code standards (.95 watts/sf). Indirect T-8 fluorescent light fixtures, controlled by occupancy sensors in all private offices were used to supplement natural lighting. Window heights were increased and light screens were added to allow natural light deeper into interior building spaces. The incorporation of these strategies allowed for the downsizing of mechanical and electrical system. Which led to less expensive mechanical and electrical equipment purchase, operation and future replacement costs. Additionally, our building is featured on the web site for betterbricks.com.

2. Conservation incentives: Modern Electric Water Company is still offering conservation rebates to customers who put in energy efficient washers and water heaters.

--5 Washers and 9 Water Heaters

3. To upgrade our power lines and replacing old transformers with more efficient ones.

6.5 miles of power lines, 40 transformers

4. In the public education area, we are still offering the following programs & publications:

--Kids in the Creek

--Arky Sparky Show

--Quarterly newsletter

--Notification of free weatherization services through SNAP for low-income customers

--Various energy saving information pamphlets

--Booth support for the Northwest Energy Efficiency Alliance at the Home Idea Show

5. Internally, our own conservation efforts include:

--Remodeling of old pump houses with better heating and cooling systems, and adding more insulation.

--Continuing intensive vehicle maintenance program to ensure clean burning of gasoline and better mileage.