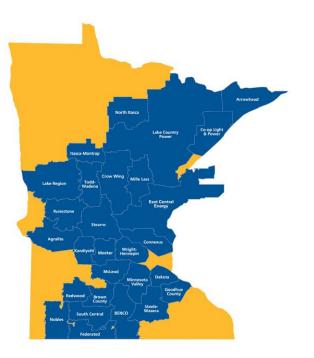
### **GRE's Energy Efficiency Programs**

### **Jeff Haase** | Energy Efficiency Program Coordinator September 23, 2015



# **Great River Energy**



- Not for profit generation & transmission cooperative providing wholesale electricity to 28 distribution cooperatives in Minnesota and into Wisconsin.
- Second largest utility in Minnesota, our member cooperatives distribute electricity to families, farms and businesses servings almost 1.7 million people.



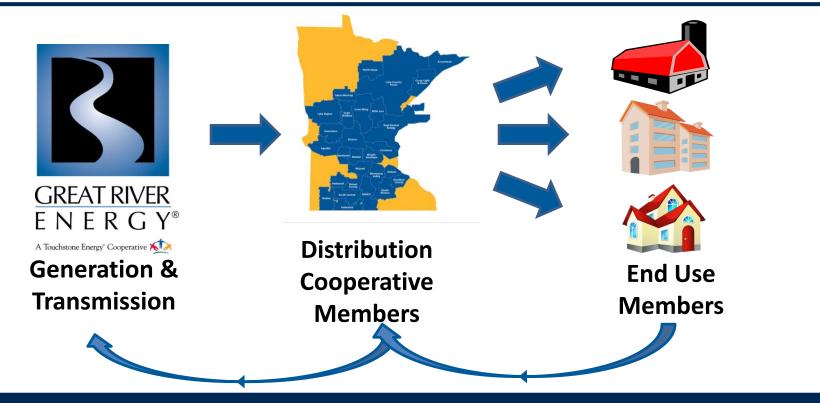
### **Cooperative Businesses**







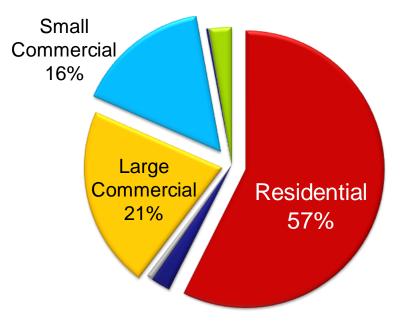
## **The Cooperative Utility**





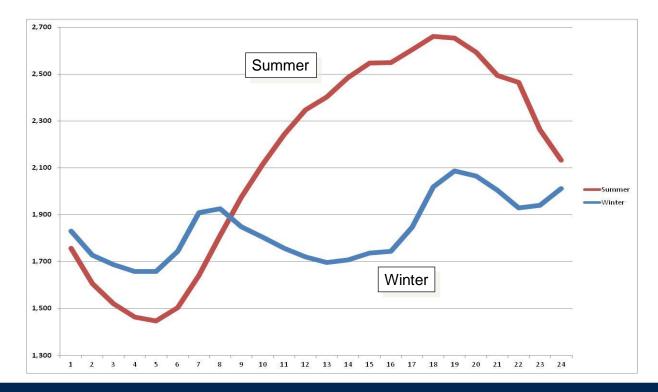
# **Utility Metrics**

	Investor-Owned	Publicly Owned	Cooperatives
Miles of Distribution Line	50%	7%	43%
Customers per mile of line (density)	34	48	7.4
Revenue per mile of line	\$75,500	\$113,000	\$15,000
Distribution plant per Customer	\$2,798	\$2,740	\$3,290
	Investor-Owned	Publicly Owned	Cooperatives
Sales (billion kilowatt hours)	2708	570	413
Residential	36.6%	37.2%	57.9%
Commercial	39.0%	36.8%	20.3%
Industrial	24.3%	26.0%	21.8%





### **GRE's Load Curves**

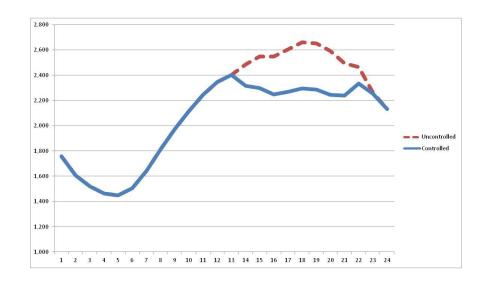




# **Demand Side Management**

#### The ability to intentionally alter the shape of GRE's load curve

- Benefits
  - Delays the need for future power plants
  - Helps GRE avoid high-cost market energy purchases
  - Reduces the load on the transmission system
  - Reduces member energy bills





# **Energy Savings Policy Goal**

- Minnesota Statute 216B.2401
  - Cost-effective energy savings are *preferred* over all other resources, and should be procured *systematically and aggressively*.
  - It is the energy policy of the state of Minnesota to achieve *annual* energy savings equal to *1.5%* of electricity and natural gas sales.

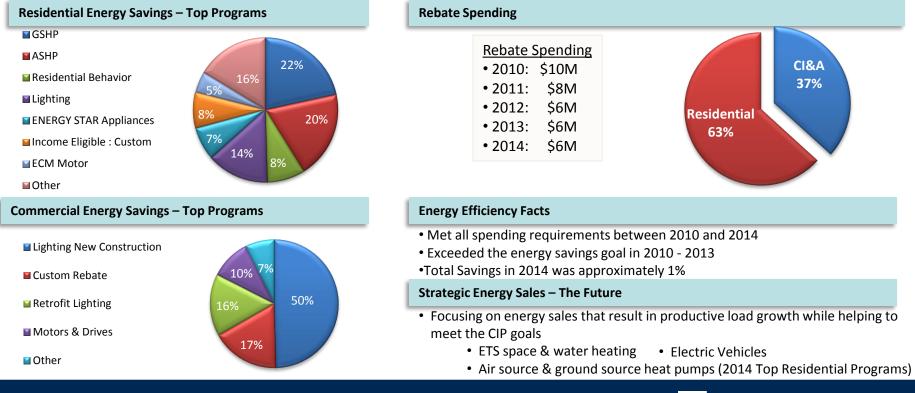


# **Member Energy Savings Goal**



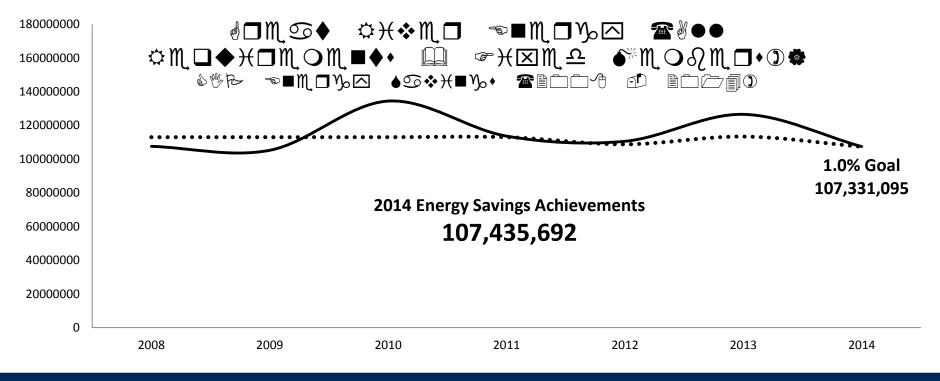


# **Energy efficiency programs**





### **2014 GRE Member Energy Savings**







### 763.445.6106

#### jhaase@grenergy.com

### **Thank You!**