

Utility Conservation and Efficiency Programs
City of Duluth CIP Programs
February 27, 2008

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2008 Energy Design Conference

Duluth Public Works & Utilities Department- ComfortSystems

- **Service Territory City of Duluth, MN**
- **Provide water, sewer, storm water, and natural gas services**
- **25,000 Natural Gas Customers**
- **495 miles of gas main**
- **Gross operating revenue \$55,221,023**
- **Annual sales 4,709,682 MMBtu**

Conservation Improvement Programs

- Home Energy Check-ups
- Home Energy Loan Program
- Commercial/Industrial Conservation Program

Conservation Improvement Project Goals

- **Prudent conservation incentives**
- **Invest 0.5% of natural gas revenues**
- **Investment target \$276,105**

Description

- **Home Energy Loan Program**
 - **4.9% fixed yearly interest rate**
 - **Single and Multiple family homes**
 - **Qualifying measures simple payback of less than 10 years**
 - **10-year term**
 - **Up to \$15,000/\$5000**

Home Energy Loan Program

- **149 single family home participants**
- **17 multiple family home participants**
- **\$748,612 in loans**
- **7147 MMBtus saved**

Commercial & Industrial Conservation Program

- **Survey to identify potential measure**
- **Simple payback analysis to qualify**
- **Notification of qualifying project**
- **Grant 15% of material and installation costs**
- **Grants limited to \$30,000 per customer per year**

Commercial and Industrial Conservation Program

- **Started in July 2007 and by Dec 2007**
 - 14 participants
 - 4 qualified for grants
 - 7 in progress
 - 3 failed to qualify for grants
 - Saved 275 MMBtus
 - Total grant amount \$4,230

Home Energy Check-ups

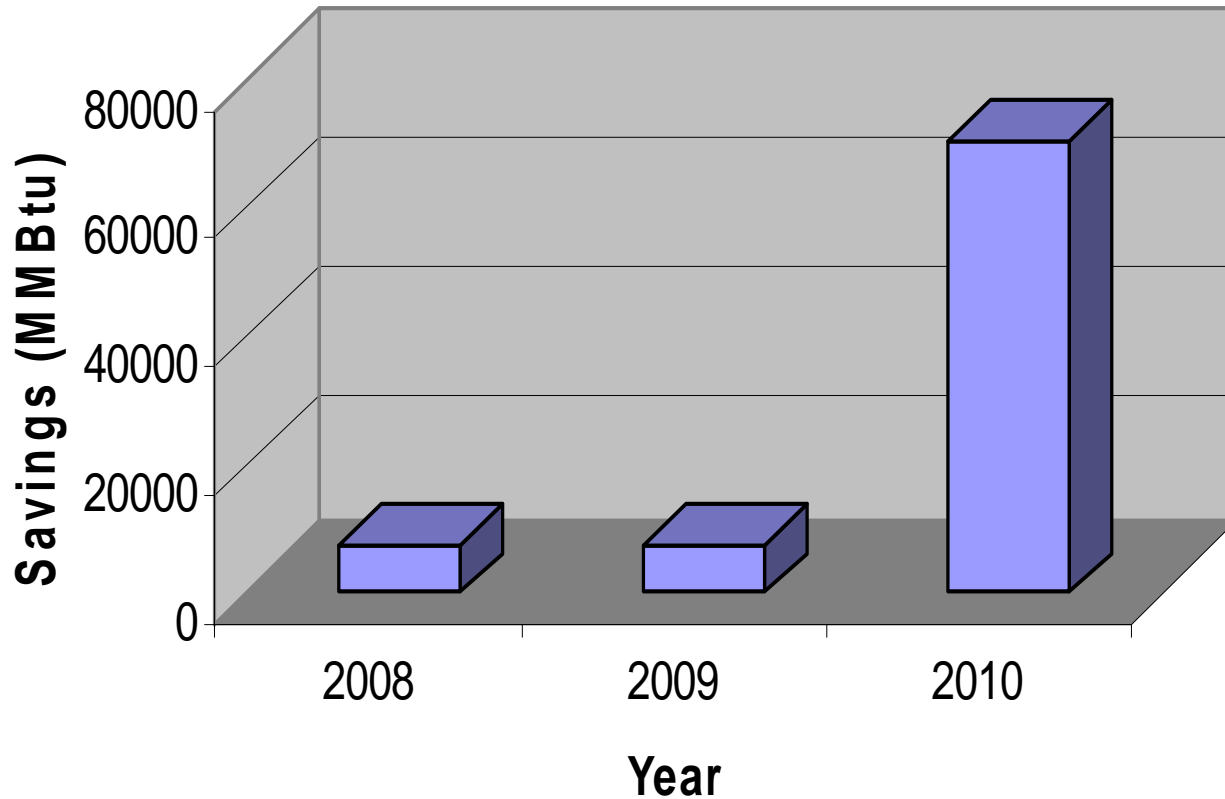
- **Partnership with MN Power**
- **Free walk through energy survey**
- **Covers natural gas and electrical appliances**
- **Qualifies ComfortSystems' customers for HELP Loans**
- **502 surveys = 166 loans**

Next Generation Act of 2007 Goals

- **4,709,602 MMBtu three year average sales**
- **Reduce annual load by 1.5%**
- **Reduce 70,644 MMBtu annually by 2010**
- **Add new programs and enhance existing ones**

CIP Savings Goals

0.5% Revenue Investment vs. 1.5% Annual Retail Energy Sales



Questions ?
