

**MEMBER  
ENERGY  
PROFILES**

**COMMERCIAL**



A Touchstone Energy® Cooperative 

# Commercial Member Energy Profiles

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## Member Profile

### CONO CHRISTIAN GYM

#### MEMBER COMMENTS:

This building houses a gymnasium, classrooms, concession area, bathrooms, and two large locker rooms. The approximate average ceiling height is 30 feet.

The entire facility is heated and cooled by several geothermal heat pumps, totaling 63 tons. The loop field has a series of 700-ft loops buried 6 feet deep in 350-ft trenches for a total of 63 loops covering approximately 5 acres.

The 8-month average for the winter season of 2011 – 2012 is \$309.00.

"We found a resource literally under our feet, 6 feet down, which really helped us cut heating and cooling cost," said Headmaster Andrew Belz.



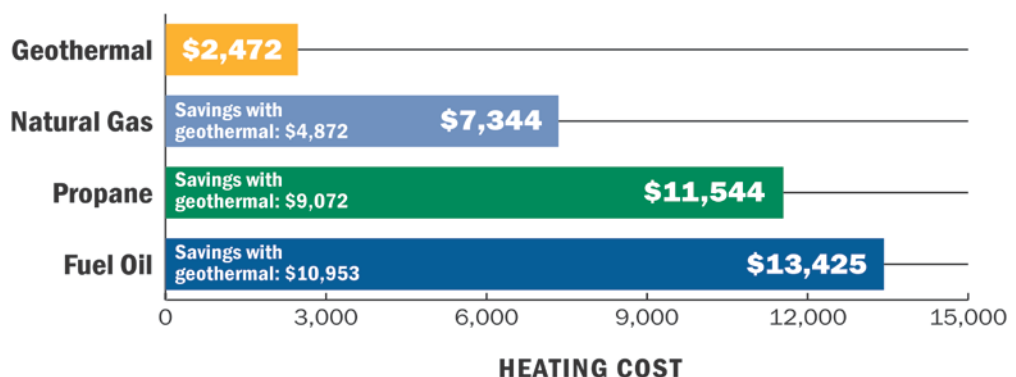
#### ESTIMATED HEATING COSTS

Numbers generated with the help of UseElectricWisely.com.

| HOUSE DETAILS         |               |                          |              |
|-----------------------|---------------|--------------------------|--------------|
| <b>General Design</b> | One story     | <b>Windows and Doors</b> | Average      |
| <b>Year Built</b>     | 2004          | <b>Install</b>           | 2004         |
| <b>Square Feet</b>    | 30,000        | <b>2011 - 2012 Usage</b> | \$2,472      |
| <b>Insulation</b>     | Above average | <b>Payback</b>           |              |
| <b>Tightness</b>      | Average       | <b>Contractor</b>        | C&A Builders |

|                     | HEATING COSTS | SAVINGS PER YEAR |
|---------------------|---------------|------------------|
| <b>GEO-THER-MAL</b> | \$2,373       | \$6,288          |
| <b>NATURAL GAS</b>  | \$7,344       | \$2,604          |
| <b>PROPANE</b>      | \$11,544      | \$171            |
| <b>FUEL OIL</b>     | \$13,425      | \$0              |

**Actual 2011-12 Savings With Air Source Heating vs. Other Energy Options\***



\*Graphs and heating costs table generated with the help of UseElectricWisely.com.

## Member Profile

### URBANA CITY HALL AND COMMUNITY ROOM

#### MEMBER COMMENTS:

This building is heated and cooled by a geothermal heat pump. It was installed in April 2004 by Bowker Mechanical Contractors of Cedar Rapids. To save money, the City of Urbana included the geothermal heat pump in the budget for this new building, since they no longer wanted to pay the large heating bills which they had to endure with the old building.

The City Hall and Community Center has 2,800 sq ft on each floor and paid \$341 to heat the building for the heating season of 2011 – 2012. The 8-month average for the winter season of 2011 – 2012 is \$42.73.

Shirley Henry, the city clerk, says, "I like the even heating and cooling provided by the heat pump and wish I could have such a low heating bill for my home."



#### ESTIMATED COSTS and SAVINGS

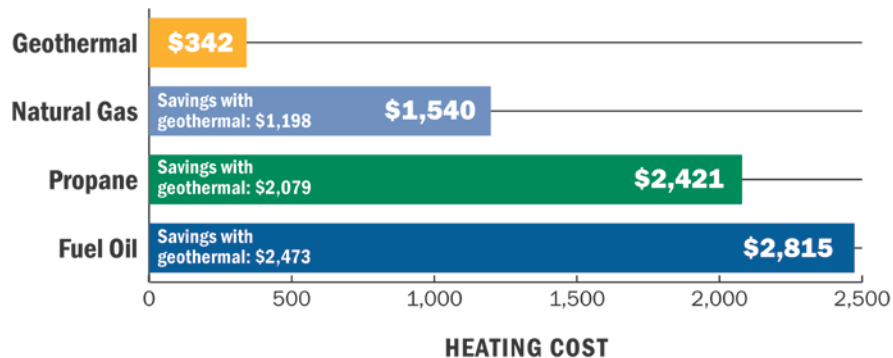
Numbers generated with the help of  
UseElectricWisely.com.

|             | HEATING COSTS | SAVINGS PER YEAR |
|-------------|---------------|------------------|
| GEOTHERMAL  | \$498         | \$2,317          |
| NATURAL GAS | \$1,540       | \$1,275          |
| PROPANE     | \$2,421       | \$394            |
| FUEL OIL    | \$2,815       | \$0              |

### HOUSE DETAILS

|                       |               |                          |                              |
|-----------------------|---------------|--------------------------|------------------------------|
| <b>General Design</b> | Two story     | <b>Windows and Doors</b> | Average                      |
| <b>Year Built</b>     | 2004          | <b>Install</b>           | April 2004                   |
| <b>Square Feet</b>    | 5,600         | <b>2011 – 2012 Usage</b> | \$342                        |
| <b>Insulation</b>     | Above average | <b>Payback</b>           | 4 ½ years                    |
| <b>Tightness</b>      | Average       | <b>Contractor</b>        | Bowker Mechanical Contractor |

**Actual 2011-12 Savings With Geothermal Heating vs. Other Energy Options\***



\*Graphs and heating costs table generated with the help of UseElectricWisely.com.