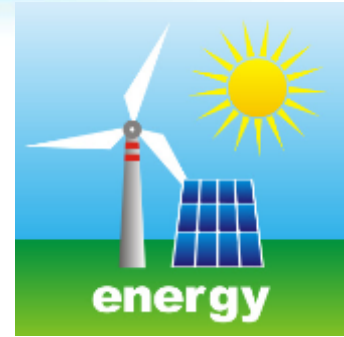




Alternative Energy for Rosemount

- Zizanie Bodene-Yost, Tashi Gurung & Mary Oldham


What is Alternative Energy?



Definition (Oxford): Energy generated in ways that do not deplete natural resources or harm the environment, especially by avoiding the use of fossil fuels and nuclear power.

LED Street Lights



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See presentations & photos from CERTs 2015 Conference >>

A Bright Idea: New LED streetlights in Crookston, Minnesota

Share:       3

Submitted by Jenna Lewein on Tue, 07/09/2013 - 10:05am

Region: Northwest



**MN ENERGY
STORIES**

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Efficient City Fleets



- **Available**
- **Dependable**
- **Cost effective**
- **Energy efficient**
- **Safe to operate**

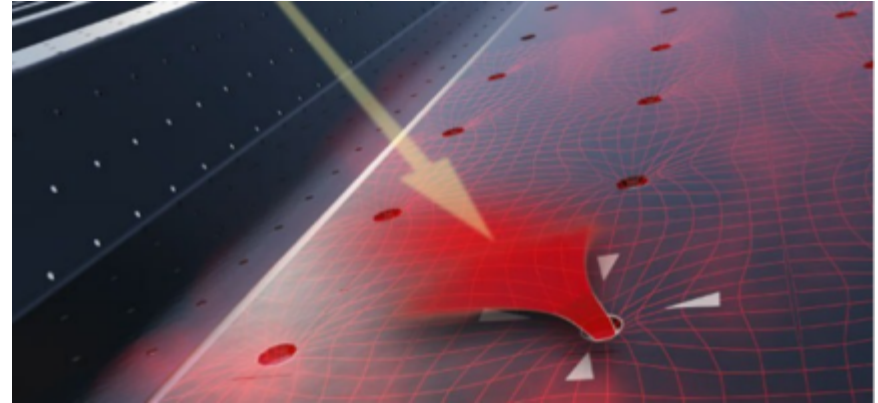


Solar Transpired Air Heat

- **Recycling of air**

Advantages:

- **Energy Efficient**
- **Cost Saving**
- **Longevity**
- **Low maintenance**
- **Fast Return on Investment**



Solar Photovoltaic



Rosemount Solar Potential Map



City Hall

Solar.maps.umn.edu/app

Solar Photovoltaic

Building Description	Estimated		2014 kWh consumption
	Total panels	annual kWh production	
Community Center / Armory	2180	730,000	2,600,000
Rosemount City Hall	111	40,000	380,000
Fire Station II	197	70,000	110,000
Fire Station I	299	100,000	80,000
Steeple Center	275	90,000	40,000

Solar PV Financing



Solar*Rewards

8¢/kWh

20 kW max

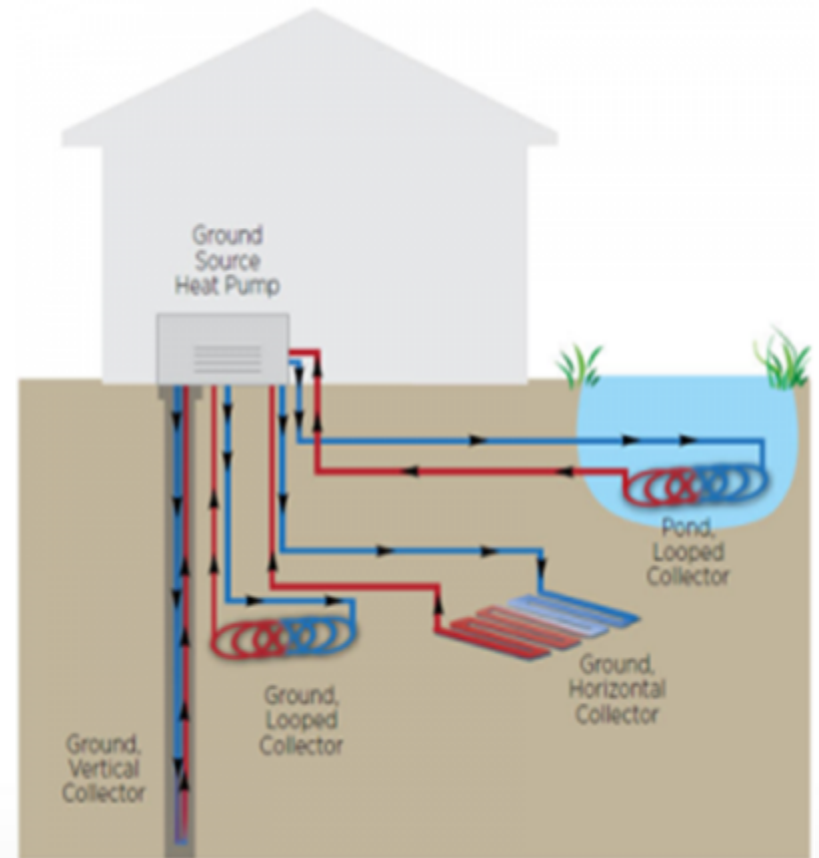
Made-in-MN

15¢/kWh

40 kW max

Geothermal

- **Successful implementation in several local cities, e.g. Eagan**
 - **Ice Arena(s) converted to a *ground source heat pump system***
- **Resource: GESP, Guaranteed Energy Savings Program**



Wind

- **highly visible**
- **varied models**
 - **a single 160kW turbine can supply power for about 100 homes**
- **development potential**



Recommendations

LED lights

GESP

- **Energy Efficiency Projects**
- **Solar Assessment**

Use local resources

- **CERTs**
- **Other Cities**



