



Smart Meters

Implementation and Use in North St. Paul

North St. Paul Implementation

	Residential	Commercial
Current	151	52
Future	~4500	~800
Total Budget	\$250,000	

As of November 27th, 2013

Current Benefits:

- Enhanced outage restoration
- More accurate energy use measurement

Potential Benefits:

- Improved monitoring of energy consumption
- Incentive programs
- Remote thermostat
- Pre-pay options
- Dynamic Pricing



For more information

- [Smart Meter Video](#)

<http://www.youtube.com/watch?v=pJEkMggn-sM&feature=youtu.be>

Recap of Potential Benefits

- Real-time capabilities:
 - Monitoring Energy use by week, day or hour
 - Can curtail energy use if over budget
 - Can reduce energy use 5 – 20%
- Remote thermostat control
- Options to pre-pay options
- Dynamic pricing



Recommendations

1. Install In-Home Display Panels
2. Look to Online Energy Use Feed back

Approximate cost:

\$180 (retail: \$200 assume 10% discount for bulk order)

\$950,000 for the 5300 installations

Policy Alternatives	Cost	Outcome Equity	Potential Energy Reductions	Total
Status Quo	5	2	1	8
In-Home Panels	2	5	5	12
Online Feedback	4	4	3	11

Example of Recommendations

Municipal Utility in Eugene, Oregon (2012)

In-home display:

- 87% used it
- 63% used online tools less given a panel

Online Access:

- 85% used website
- 11% used Smart Phone App

Primary Uses

- 63% Appliance use
- 54% Cost per day
- 54% Use Trends

MVEC in Jordan, MN (Current)

Programs:

- Beat the Peak Energy Challenge
- Wifi thermostats
- Energy Wise

Online Access:

- Bills
- Energy consumption
- Pay as you monitoring

Ability to make system upgrade systematically

Questions

