

# wattsmart® Business Case Study *Cities and Counties of Utah*



*“Working on energy efficiency with Rocky Mountain Power has been a great experience here – that’s why we continue to pursue it.”*

**John Bergen**  
Project Manager  
Salt Lake County

# Be wattsmart

and give your budget a boost.



*Let's turn the answers on.*



Northwest Recreation Center in Salt Lake County

## Featured County Salt Lake County – Utah

### At a glance

#### Projects:

Salt Lake County has completed 88 energy efficiency projects with Rocky Mountain Power since 2005. The county has implemented cost- and energy-saving measures ranging from high-efficiency lighting retrofits to cool roofs and HVAC upgrades at many county buildings.

#### Annual energy savings:

\$447,900 (7,464,992 kwh/year)

#### Project cost:

\$2,204,350 before incentives  
-804,472 incentive payments  
\$1,399,878 after incentives

#### Simple payback:

4.9 years before incentives  
3.1 years after incentives

#### Project highlights:

##### Lighting

- Annual energy savings from multiple lighting projects – 2,913,765 kwh/year

##### HVAC

- Annual energy savings from various HVAC projects – 3,582,667 kwh/year

##### Building envelope

- Window glazing
- Wall and roof insulation
- Exterior shading
- Cool roof

Annual energy savings from building envelope upgrades – 246,970 kwh/year

#### Energy consultants:

Nexant, Inc.  
EMC Engineers, Inc.  
ETC Group, LLC  
kW Engineering  
RM Energy Consulting

# wattsmart Business Case Study Cities and Counties of Utah

## Overview

Since 2005, eight counties and 22 cities in Utah have participated in Rocky Mountain Power's wattsmart® Business energy efficiency program. The amount of electricity being saved is a major accomplishment – exceeding 20 million kilowatt-hours.

## Salt Lake County – Northwest Recreation Center project highlight

Salt Lake County has collaborated with Rocky Mountain Power to implement energy-saving measures at several community recreation centers in the county.

Voter-approved funds allowed Salt Lake County to renovate a 1960s-era community center, transforming it into a modern senior activity center. At the same time, a new state-of-the-art facility – the Northwest Recreation Center – was constructed adjacent to the existing building.

Renovations to the existing facility included new efficient rooftop heating, cooling and air conditioning units, along with upgrades to high-efficiency lighting throughout the building.

The construction of the new building allowed high-efficiency measures to be built in from the start (see table below). The 62,000 square-foot center was officially LEED (Leadership in Energy and Environmental Design) Gold certified, thanks in part to these measures.

Salt Lake County received more than \$21,000 in Rocky Mountain Power incentives for upgrades at the Northwest Recreation Center.

### Types of energy efficiency projects that have been implemented at the Salt Lake County Northwest Recreation Center:

Window and roof insulation Window glazing	Lowers building temperature, therefore, saving energy on heating and cooling costs.
Lighting controls Daylighting Lighting fixture retrofit	Turns lights off when space is not occupied or when adequate sunlight is available. Energy-saving light fixtures.
Variable water flow	Varies the flow of hot water, based on demand, using variable frequency drive (VFD).
Heating, ventilation, air conditioning	Energy-efficient rooftop cooling units.

**These projects are saving Salt Lake County more than 196,500 kilowatt-hours in electricity and nearly \$11,800 in energy costs annually.**



*“We’re a small town and a few hundred dollars makes a big difference, especially in this economy!”*

Claire Woodman  
Assistant Town Administrator  
Town of Alta

## Featured City

### Town of Alta – Utah

## At a glance

### Projects:

The Town of Alta completed two lighting projects through Rocky Mountain Power’s wattsmart Business program, one at their Community Center and the other at their Police Dispatch building.

### Annual energy savings:

\$448 (7,462 kwh/year)

### Project cost:

\$3,186 before incentives  
-803 incentive payments

\$2,383 after incentives

### Project highlights:

Annual energy savings from Community Center lighting projects – 7,462 kwh/year

### Energy consultant:

RM Energy Consulting

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APPROVED

## Town of Alta

To save energy and money, the Town of Alta, located close to Utah’s Wasatch-Cache National Forest, upgraded to high-efficiency lighting in two municipal buildings with the help of Rocky Mountain Power’s wattsmart Business program.

The town’s community center, part of a 40-year-old building known locally as the “Fire House,” was a clear choice for making lighting improvements. The old T12 fluorescent fixtures were not delivering adequate light, and the magnetic ballasts were causing an annoying hum.

Lighting throughout the building was replaced with high-efficiency T8 fluorescent fixtures with electronic ballasts. The result is brighter, higher quality light and solid savings – and no more hum! Similar lighting improvements were made at the town’s Police Dispatch building.

The Town of Alta received more than \$800 in Rocky Mountain Power incentives for its lighting upgrades.

**The improvements are saving nearly 7,500 kilowatt-hours in electricity and approximately \$450 in energy costs every year.**

## Savings

By participating in our wattsmart Business program, Utah cities and counties (see chart on next page) are saving a combined total of \$1,271,804 in energy costs per year. These cities and counties have collectively received more than \$1.9 million in Rocky Mountain Power incentives for the energy efficiency projects completed over several years.

## Benefits

Not only are the cost savings helping annual budgets, but improving energy efficiency is enhancing employee comfort and productivity, as well as lowering maintenance costs. In addition, the energy being saved each year by these cities and counties has a positive impact on the state of Utah’s environmental footprint.

## About wattsmart Business

Rocky Mountain Power offers a variety of options to help local and regional governments and other commercial, industrial and agricultural customers in Utah, Idaho and Wyoming build energy efficiency into new construction and retrofit projects. wattsmart Business provides cash incentives for lighting, HVAC, industrial processes and more.

## Let us help you get started

For more information on how we can assist your facility:

- Contact your account manager.
- Visit [wattsmart.com](http://wattsmart.com) and inquire online.
- Email [wattsmartbusiness@rockymountainpower.net](mailto:wattsmartbusiness@rockymountainpower.net).
- Call our energy experts toll free at **1-800-222-4335**.

Because there are requirements to qualify for an incentive, it is important to call us **before** you start your project.

## Energy efficiency project savings 2005–2012\*

Participating counties	Lighting	VFDs – HVAC Fan/Pumps	HVAC	Building Envelope	Other	Annual electricity cost savings (\$/yr)	kWh/yr savings	Incentive
Davis County Events Center	✓		✓	✓		\$75,484	1,258,074	\$145,818
Emery County Commission	✓					\$2,098	34,960	\$3,925
Grand County Public Library	✓		✓	✓		\$2,074	34,561	\$8,068
Salt Lake County	✓	✓	✓	✓	✓	\$447,900	7,464,992	\$804,472
Sevier County		✓	✓		✓	\$972	16,208	\$1,800
Summit County	✓		✓			\$8,213	136,884	\$15,779
Tooele County	✓		✓	✓		\$49,889	831,490	\$85,272
Weber County	✓		✓	✓	✓	\$27,272	454,525	\$49,207
<b>Total</b>						<b>\$613,902</b>	<b>10,231,693</b>	<b>\$1,114,342</b>
Participating cities								
Town of Alta	✓					\$448	7,462	\$803
City of Moab – City Hall/PD	✓		✓	✓	✓	\$11,784	196,400	\$27,083
City of Orem	✓		✓		✓	\$24,394	406,564	\$48,755
City of West Jordan					✓	\$25,482	424,698	\$39,272
Cottonwood Heights					✓	\$19	321	\$81
Delta City	✓					\$1,739	28,977	\$4,106
Emery Town			✓			\$525	8,745	\$330
Fountain Green City	✓					\$199	3,319	\$1,117
Grantsville City Corp.	✓		✓			\$584	9,728	\$3,039
Gunnison City	✓	✓	✓			\$2,433	40,555	\$3,217
Holladay City					✓	\$4,906	81,760	\$5,776
La Verkin City	✓					\$488	8,135	\$1,320
Ogden City Corp.	✓				✓	\$17,456	290,927	\$21,785
Panguitch City	✓					\$2,746	45,766	\$9,342
Park City Municipal Corp.	✓		✓	✓		\$38,859	647,658	\$48,098
Pleasant Grove City Corp.			✓			\$3,277	54,621	\$8,675
Richfield City Corp.	✓					\$1,378	22,962	\$2,722
Salt Lake City Corp.	✓		✓	✓	✓	\$433,566	7,028,608	\$520,676
Sandy City Corp.	✓		✓		✓	\$34,938	582,303	\$58,068
South Jordan City	✓	✓				\$20,507	341,783	\$25,579
City of Taylorsville					✓	\$23,921	398,688	\$30,594
Tremonton City Corp.	✓				✓	\$8,254	137,559	\$17,973
<b>Total</b>						<b>\$657,902</b>	<b>10,767,539</b>	<b>\$878,410</b>

\*As of July 27, 2012. Annual electricity cost savings are calculated at \$0.06 per kilowatt-hour.