

Harvesting Energy Efficiency: The Other Green Resource

The Utah League of Cities & Towns

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The Greenest Energy is ?

- “The energy you don’t use !”
- We want to help you meet your efficiency goals

Introduction

- Utility Energy Efficiency Programs Overview
 - ▶ FinAnswer Express & ThermWise Business Rebates
 - ▶ Energy FinAnswer & ThermWise Custom Rebates
- How it Works
 - ▶ Customer & Measure Eligibility
 - ▶ Technical Assistance
 - ▶ Participation Steps
 - ▶ Additional Programs
- Program contacts

Energy Efficiency Programs – C&I Customers

– Rocky Mountain Power

- ▶ **FinAnswer Express** – Prescriptive incentive based upon \$/HP, \$/ton, \$/fixture
- ▶ **Energy FinAnswer** – For comprehensive projects – new and retrofit over 20,000 sq. ft. Custom Calculations of energy savings from baseline

– Questar Gas

- ▶ **Business Rebates** – Rebate based on \$/kBtu, \$/furnace, \$/sf for HVAC, weatherization, food service
- ▶ **Custom Rebates** – Comprehensive gas efficiency and low-cost gas improvements



Prescriptive Programs



FinAnswer Express & ThermWise Business Rebates

FinAnswer Express

- Customers -6, 8, 9, 9A, 10, 12, 21, 23
- Retrofit/New Construction Projects – any size facility
- Streamlined customer participation procedures
 - ▶ access the program via Energy Efficiency Alliance vendors or Rocky Mountain Power
- **Pre-purchase** incentives available for retrofit lighting.
- **Post Purchase** incentives available for:
 - ▶ New construction lighting
 - ▶ Motors,
 - ▶ HVAC (RTUs), and qualifying Chillers
 - ▶ Evaporative Cooling
 - ▶ Programmable Thermostats
 - ▶ VFD's for HVAC Fans and Pumps
 - ▶ Occupancy based PTAC controls
 - ▶ Cool Roof
 - ▶ Food Service Equipment

ThermWise Business Rebates

- GS Rate Schedule only
- Retrofit/New Construction Projects – any size facility
- Streamlined customer participation procedures
 - ▶ access the program via Energy Efficiency Alliance vendors or Questar Gas
- **Post-Purchase Rebates** available for:
 - ▶ Furnaces/Unit Heaters/IR Heaters
 - ▶ Boilers/Boiler Tune-Ups
 - ▶ Water Heaters
 - ▶ Laundry
 - ▶ Windows & Insulation
 - ▶ Food Service Equipment

Program Application Process

Post-Purchase

- **Step 1:** Purchase and install a qualifying unit at an eligible location*
- **Step 2:** Obtain an incentive application from dealer or Rocky Mountain Power/Questar Gas or website
- **Step 3:** Submit incentive application
- **Step 4:** Receive incentive check within 45 days of application approval.

* (Not all Rocky Mountain Power measures under Express are post purchase. If unsure, contact a Rocky Mountain Power representative. Before purchasing equipment.)

Pre-Purchase

- **Step 1:** Contact Rocky Mountain Power prior to making a financial commitment or starting installation. They will need to verify existing equipment.
- **Step 2:** Sign a Rocky Mountain Power incentive agreement before you order equipment.
- **Step 3:** Upgrade your lighting
- **Step 4:** Submit project cost documentation, including invoices with breakdown.
- **Step 5:** Receive incentive check within 45 days of completion of Step 4.



Custom Programs



Energy FinAnswer and ThermWise Custom Rebates

Energy FinAnswer

- Customer Eligibility
 - ▶ comprehensive project
 - ▶ New Construction
 - ▶ Industrial Site
 - ▶ Commercial retrofit (over 20,000 sq. ft)
- Qualifying Measures
 - ▶ Any measure that produces verifiable electric reduction
 - ▶ Pre-purchase and Pre-approval required
- Energy Analysis
 - ▶ Energy engineering and commissioning guidelines provided by Rocky Mountain Power
- Incentive Structure:
 - ▶ \$0.12/kWh projected annual savings + \$50/kW for average kW reduction (some incentive limits may apply)
 - ▶ Commissioning may be required

ThermWise Business Rebates

- Customer Eligibility
 - ▶ Questar Gas customers in Utah on GS Rate Schedule
- Qualifying Measures
 - ▶ Any measure that produces verifiable gas reduction
 - ▶ Minimum useful life of 7 years
- Energy Analysis
 - ▶ Energy engineering and commissioning must be completed and paid for by customer
- Rebate Structure
 - ▶ \$1.00/therm saved during the first year, or
 - ▶ 50% of eligible project cost
 - ▶ Commissioning required to receive full rebate

Energy FinAnswer and ThermWise

– Participation Steps

Energy FinAnswer

- **Step 1:** Sign our standard Letter of Intent
- **Step 2:** Rocky Mountain Power completes preliminary analysis and gets customer approval to proceed.
- **Step 3:** Detailed Energy Analysis to refine preliminary estimates for the measures you want to implement (Customer may contract separately with engineer to calculate gas-side savings.)
- **Step 4:** Sign the Incentive Agreement prior to signing purchase orders for equipment.
- **Step 5:** Purchase, Install, & Commission (Customer funds required commissioning as part of the implementation cost of the measure)
- **Step 6:** Provide any required commissioning submittals and cost documentation.
- **Step 7:** Post-installation inspection of installed energy efficiency measures. Review commissioning results and cost documentation.
- **Step 8:** Rocky Mountain Power will mail an incentive payment within 45 days of satisfactory review of the inspection results and project invoices.

ThermWise Business Custom Rebates

- **Step 1:** Identify Project
- **Step 2:** Submit Pre-Installation Report (PIR) for Pre-Approval
 - ▶ Report documenting measures to be installed, estimated savings and costs, and commissioning plan
- **Step 3:** Purchase, Install, & Commission Project
- **Step 4:** Submit Post-Installation Report (POR)
 - ▶ Final report verifying measures installed, documenting final savings and costs
- **Step 5:** Receive Rebate
 - ▶ Rebate based on approved savings, costs, and final commissioning report

ThermWise Custom Rebates – More Details

- Technical Assistance
 - ▶ Customer is responsible for self-funding engineering analysis and commissioning
- Eligible Measures
 - ▶ Measures eligible for rebates through the prescriptive Business Rebates program are not eligible to receive rebates through the Custom Rebates program
- Engineering Analysis
 - ▶ Same level of effort and requirements for engineering analysis as Rocky Mountain Power programs
- Customer Eligibility – GS Rate Schedule

Custom Programs- Example Measures

Energy FinAnswer

- High performance shell measures
- HVAC and Lighting System controls
- New construction (LEED)- High performance buildings.
- Indirect/Direct Evaporative cooling

ThermWise Custom Rebates

- Heat recovery installations
 - ▶ Boiler heat recovery
 - ▶ Process equipment
- Steam system optimization
- Solar-assisted water heating
- Process equipment insulation improvements
- Re-commissioning measures
- Controls

It Works – Cities of Ogden, Salt Lake, Taylorsville, Moab, Holladay, Sandy, S. Salt Lake and Park City have completed a project recently: to name just a few.

- Lighting Retrofits underway at 13 sites in Park City
 - ▶ Saving 743,085 kWh
 - ▶ \$40,622 annual savings per year
 - Approximate 5 year payback
 - Plus reduced maintenance cost , better lighting
 - ▶ \$54,461 cash incentive

ThermWise Business Rebates – Cities and Towns

- Salt Lake City Corporation
 - ▶ Water Heaters, Furnaces, Thermostats
- Housing Authority of Salt Lake County (Grace Mary Manor)
 - ▶ 16 Furnaces and 2 Water Heaters
 - ▶ 630 Dth savings per year (\$5,080 savings per year)
 - ▶ \$9,900 cash incentive
 - ▶ 3.4 year simple payback (after incentive)
- Sandy City Corporation
 - ▶ High-Efficiency Clothes Washers/Gas Dryers
 - ▶ \$49.34 annual savings per year
 - ▶ \$250 cash incentive
 - ▶ ~3.1 year simple payback (after incentive)

Additional Rocky Mountain Power Programs



FinAnswer Design Assistance Track

- Goal of the design assistance track is a design (in the construction drawings) that will reduce energy consumption by at least 10% when compared to an energy code-compliant building.
- Design assistance employs a three meeting framework to insure timely feedback at critical periods in design process
 - ▶ Scoping (early schematic design)
 - ▶ Schematic design
 - ▶ Design development
- Construction document review
 - ▶ Ensures energy efficiency equipment is included in the construction documents – no missed opportunities.
- Design Team Incentives
 - ▶ Construction Documents showing building design at least 10% over code.
 - ▶ Incentives vary based on size

Recommissioning Program

- Recommissioning – Low-cost or no-cost electric improvements. 100,000 mile building tune-up. Service incentives
- Program looks for
 - ▶ Customers with summer peak demand of 300kw in the last 12 months.
 - ▶ Willing to commit to spend \$10,000 to implement identified measures.
- Program uses Recommissioning Service Providers (RSP) to identify potential areas for building operation improvement.
- Customer can contract directly with RSP to identify gas side savings to be included in Recommissioning reports. Provide reports to Questar for approval of gas-side rebate.

Rocky Mountain Power's Residential Programs

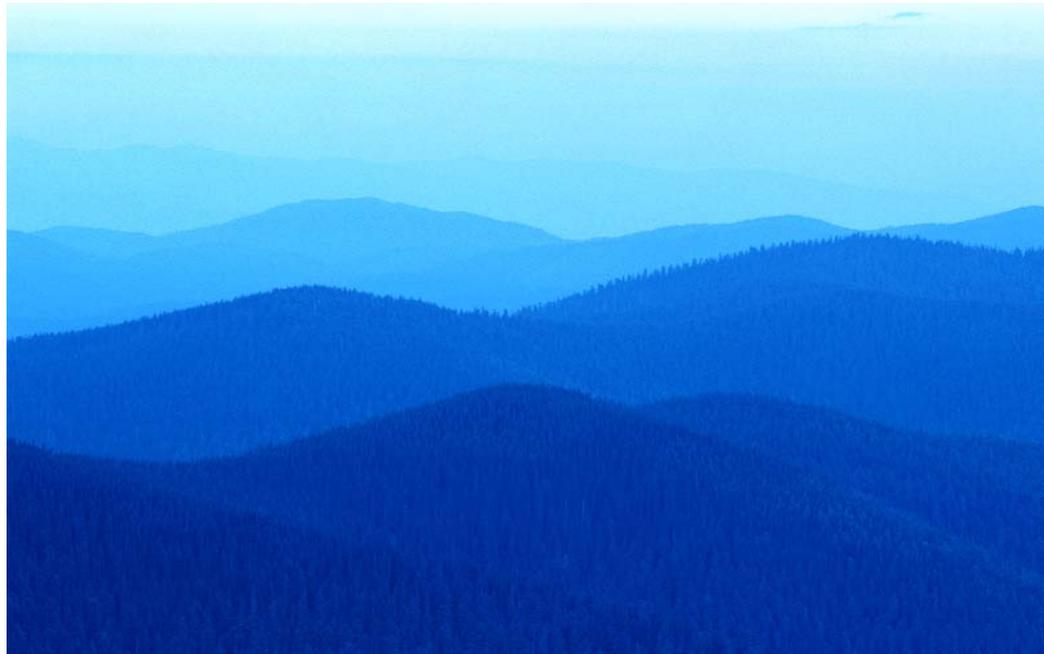
- **Cool Keeper** – \$20 to \$40 bill credit allowing us to control a/c units during high temps.
- **Cool Cash** – purchase hi-efficient a/c unit or evaporative units and receive incentive - \$50 to \$750 - check website or contact your local dealer for approved equipment ratings.
- **See 'Ya Later Refrigerator** – give us your old refrigerator and receive \$30 incentive plus CFL's & refrigerator/freezer thermometer.
- **Home Energy Savings** – incentives for lighting and appliance purchases (clothes washer, dishwasher, hot water heater, refrigerator and lighting/ceiling fans).
- **Energy Star New Homes** – built to exceed code and are Energy Star labeled – See your builder for details
- **Home Energy Analysis** – self-audit or web audit with our recommendations on efficient upgrades

Questar Gas' ThermWise Residential Programs

- **Appliance Rebates** – \$/unit rebates for qualifying high-efficiency natural gas equipment: furnaces, water heaters, solar-assisted gas water heating, EnergyStar washers, gas dryers
- **Weatherization Rebates** – \$/sq.ft. rebates for upgrading windows, insulation, or approved duct sealing
- **Home Energy Audit** – Self-audit or for \$25, a Questar Gas technician will visit your home and make recommendations about ways to save natural gas (insulation, low-flow shower heads, etc.)
- **Single Family/Multifamily Builder Rebates** – incentives for builders of single-family/multi-family dwellings for installing high-efficiency furnaces/water heaters/washers/dryers or EnergyStar certified homes.

Thank You For Your Attention

– It is time for questions !



More Information

Rocky Mountain Power

- Your Rocky Mountain Power Account Manager
- 1-800-222-4335
- Energy.expert@pacificorp.com
- **www.rockymountainpower.net/utsave**

Questar Gas ThermWise Business Rebates

- Business Hotline: 1-800-867-2044
- business@thermwise.com
- **www.ThermWise.com**

