
Energy Efficiency Program Proposal

ThermWiseSM Business Custom Rebates Program

Program Overview

The ThermWise Business Custom Rebates program is a demand-side management opportunity offered by Questar Gas with the goal of obtaining verifiable, cost-effective, and persistent natural gas savings. Program participants provide submittals for a firm quantity of natural gas reduction through the installation of demand-side management (DSM) measures in return for a fixed price per decatherm rebate up to a cap equal to a percentage of the eligible incurred project cost. Eligible projects must be installed at separately metered commercial Questar Gas GS customer facilities.

The ThermWise Business Custom Rebates program requires customers to submit specific information for each project and to conduct energy engineering and commissioning at their own cost. This project information will be provided in two reports: the Pre-Installation Report and Post-Installation Report. Rebates will be paid directly to participating customers who meet the program requirements.

The program is designed to leverage the marketing access and existing delivery channels of local businesses, wholesalers and retailers as well as Questar's account management personnel. Primary program administrative functions have been contracted to Nexant. Questar Gas will support the program delivery by identifying customer installation opportunities and assisting customers with program requirements where applicable.

The ThermWise Business Custom Rebates program will seek to increase customer awareness of energy-efficient commercial and industrial technologies as well as to achieve cost-effective natural gas savings.

Additional objectives of the program are to:

- Encourage private sector delivery of energy efficiency products and services;
- Achieve customer gas and cost savings;
- Significantly reduce barriers to participation by streamlining program procedures and measurement and verification (M&V) requirements.

Program Design

Qualifying Customers

Separately metered commercial customer in Questar Gas' Utah service territory and billed on a GS rate schedule are eligible to participate in the ThermWise Business Custom Rebates program.

Measure Eligibility

Qualifying measures include those that target cost-effective natural gas savings including retrofits of existing systems, improvements to existing systems, and first time installations where the system's efficiency exceeds Utah Energy Code or standard industry practice. The program does not explicitly specify eligible measures to provide program participants maximum flexibility in identifying potential projects. Participants may propose the inclusion of any measure that:

- Produces a verifiable natural gas usage reduction
- Is installed in either existing or new construction applications
- Has a minimum useful life of 7 years
- Exceeds minimum cost-effectiveness requirements as required by the Utah Public Service Commission.

Measures that are excluded from consideration in this program include those that:

- Are offered through the ThermWise Business Rebates program.
- Rely solely on changes in customer behavior
- Merely terminate existing processes, facilities, or operations
- Involve fuel-switching
- Are required by state or federal law, building or other codes, or are standard industry practice
- Receive a rebate through any other energy efficiency or DSM program offered by Questar Gas

Eligible Measure Costs

Eligible measure costs are based upon the actual incremental expenses incurred by the customer in connection with the construction, installation or implementation and commissioning of an eligible project. Costs may include equipment costs, engineering and consulting expenses and internal labor costs. Expenses are subject to approval by the program administrator.

Customers shall provide cooperation and access as is reasonably required for the program administrator to make a determination of eligible costs. Acceptable documentation of eligible costs may include: invoices, work orders, cancelled checks, and accounting system reports.

Baselines for Savings and Incremental Costs

The ThermWise Business Custom Rebates program is designed to encourage energy-efficiency improvements that go above and beyond the efficiency gains typically achieved in replacement or new construction projects. Consequently, savings and eligible measure costs will be based only on the difference in the efficiency and cost of the installed system and the baseline system. The baseline system is the current Utah Energy Code minimum efficiency standards, if such standards apply. In cases where standards do not exist, the baseline will be based upon standard industry practice.

The program administrator may adjust baseline natural gas consumption and costs during the submittal review to reflect any of the following: energy codes, standard practice, changes in capacity, equipment operation, changes in production or facility use and equipment at the end of its useful life.

The ThermWise Business Custom Rebates program's rebate levels made by Questar Gas for the installation of measures pursuant to the Program Agreement shall be the lesser of (a) and (b):

- (a) \$10.00/Decatherm per first year annual Decatherm savings as determined solely by Questar Gas;
- (b) 50% of the eligible project cost as determined by Questar Gas,

Commissioning Opt-Out: If the customer chooses not to conduct the commissioning activities the annual natural gas savings and the eligible measure costs will all be reduced by 20% and the rebate will be re-calculated using the provisions specified above. For measures where the customer has "opted-out" of commissioning and are later commissioned are not eligible for additional rebates at a later date.

Subsequent to approval of a Pre-Installation Report, the customer will be required to enter into a Program Agreement with Questar Gas in order to be eligible for rebates.

During 2009, Questar Gas anticipates approximately 15 projects to participate in the ThermWise Business Custom Rebates program.

Project Identification (Pre-Installation Report)

The first report required prior to project installation is titled the Pre-Installation Report (PIR). To assess projects for eligibility and program approval, the customer must submit the following information:

- Identification of the project site and account information.
- An energy analysis report adhering to industry standard practices for energy engineering containing the following:
 - Descriptions of the proposed set of energy-efficiency measures;
 - Summary of the energy savings and eligible project costs;
 - Baseline operational conditions and energy consumption data supported by spot or short-term measurements, trended data, or accepted engineering practices for each proposed measure;
 - A description of the calculations and methodologies that support the baseline, proposed operation, natural gas savings, and eligible costs;
 - Supporting documentation for the estimated eligible measure costs;
 - Any additional information necessary for the review of the project such as calculation spreadsheets, simulation models, vendor quotes, and equipment specifications;
 - Commissioning plan for verifying the proposed measure operation and energy savings.
- Brief summary of the anticipated project timeline.

To assist customers with the Pre-Installation Report, the Company may provide a limited budget for conducting technical energy audits for eligible customers. Customers will be eligible to apply for technical energy audit funds through an application process administered by the Company. The Company will have sole discretion for the approval of each customer application for technical energy audit funds. Criteria for funding approval will be based upon but not limited to: funding availability, the customer's ability to complete identified energy efficiency measures, potential energy efficiency opportunities at the customer's site, and technical feasibility of the measure. The Company may limit the funding amount for each project at its sole discretion.

Following the submittal of a PIR and prior to project installation, the Company will conduct any site inspection activities necessary to confirm the baseline conditions and anticipated project scope. Once the Initial Application has been reviewed and approved, the Company will prepare and send an approval letter to the customer to notify them of their project review results and anticipated rebate amount.

If the project does not meet the eligibility requirements, the PIR is not complete, or of sufficient quality; the PIR will be rejected. The customer may address deficiencies in the PIR and resubmit for program consideration.

The customer is responsible for submitting the Pre-Installation Report and allowing time for the appropriate review prior to purchasing equipment. Projects that have been purchased or installed prior to Pre-Installation Approval may not be eligible for rebates under the ThermWise Business Custom Rebates program.

Project Commissioning

For purposes of this program, commissioning includes verification of the project savings and confirmation that the measures are operating as intended. This step insures that the predicted energy savings are being achieved and that the system's operation and performance has been optimized. Commissioning is the responsibility of the building owner and can be completed by internal staff or contracting with the installing contractor. Commissioning is required to receive a full rebate.

Project-specific commissioning procedures may be classified according to three distinct approaches that represent increasing levels of detail and rigor.

- Deemed savings: Savings values are stipulated based on engineering calculations using typical equipment characteristics and operating schedules developed for particular applications, without on-site testing or metering.
- Simple M&V: Savings values are based on engineering calculations using typical equipment characteristics and operating schedules developed for particular applications, with some short-term testing or simple long-term metering.
- Full M&V: Savings are estimated using a higher level of rigor than in the deemed savings or simple M&V approaches through the application of metering, billing analysis, or computer simulation.

The commissioning plan will be required to be submitted for each project with the Pre-Installation Report. Commissioning procedures will vary in detail and rigor depending on the measures installed. The level of detail and rigor of the commissioning plan is subject to the project size and risk to rebates and project savings. The program administrator will specify the approach required in the commissioning plan.

If the customer and program administrator agree to pursue the "Full M&V" or "Simple M&V" options, it must follow the International Performance Measurement and Verification Protocol.

Commissioning is required to be completed when the building is fully occupied and when the system's operation can be verified. Some measures may require operation during the cooling or heating seasons and the time required to complete commissioning activities will range from a few days up to a few months.

Project Installation (Post-Installation Report)

After receiving approval of the PIR from the Company, customers may install the identified measures. Upon completion of installation or construction activities for each approved project, customers should commence with the commissioning phase of the project. Upon completion of commissioning, the customer must submit a post-installation report (POR) that identifies the following:

- A report summarizing the results of the commissioning activities and as-installed operation of the measures
- Additional information necessary for the review of the project such as final calculation spreadsheets, simulation models, invoices, and equipment specifications.
- Verified natural gas reduction

- Verified eligible project costs
- Estimated rebate amount

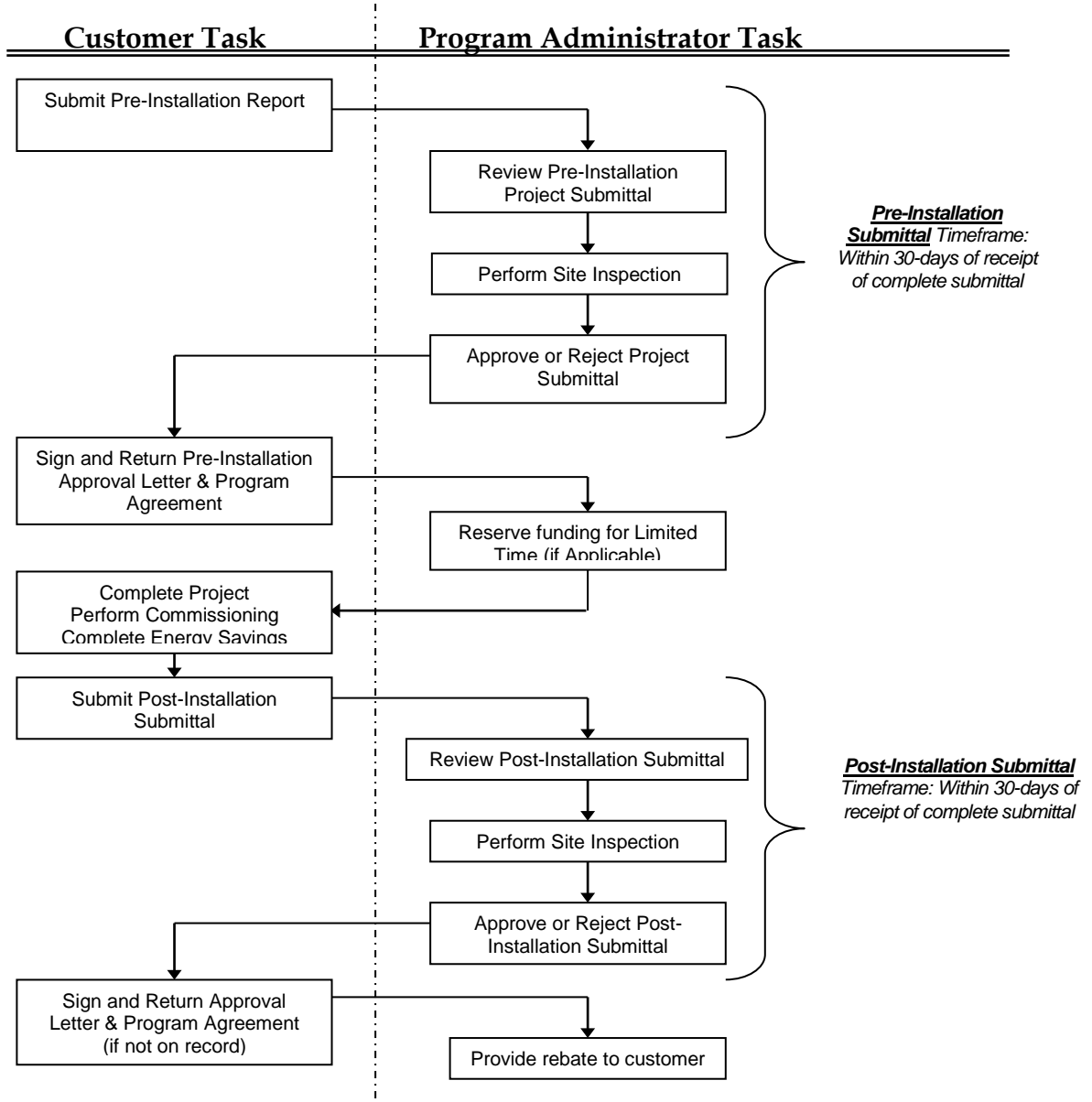
Once the POR has been reviewed and approved, the Company will prepare and send an approval letter to the customer to notify them of their project review results and rebate amount.

If the project does not meet the eligibility requirements, the POR is not complete, or of sufficient quality; the POR will be rejected. The customer may address deficiencies in the POR and resubmit for program consideration.

Program Process

Figure 1 illustrates the intended ThermWise Business Custom Rebates program delivery process, showing the expected involvement and responsibilities of the customer and the program administrator.

Figure 1. Business Custom Program Process



Questar Gas will provide marketing and promotional support for the ThermWise Business Custom Rebates program to encourage customer participation and to help program cost effectiveness. Initial marketing strategies will include:

- On-line brochure and associated program information placed on ThermWise.com.
- Notification in company newsletters and bill inserts (when applicable) of program information and availability.

- Referrals and customer awareness assistance from the Questar Gas Commercial and Industrial Account Management Department (where applicable).
- Cross-marketing with other Questar Gas energy-efficiency programs and activities, i.e. consumer and trade shows, special promotions, direct sales and rebate check inserts.
- Targeted outreach to trade organizations, engineers, contractors, energy service companies, government agencies.
- Limited engineering services budget to be used to engage third party engineers to evaluate customer projects.

In addition, as with all Questar Gas Demand Side Management (DSM) programs, market transformation education and awareness advertising will incorporate the Business Custom Program into the overall energy-efficiency campaign advertisements and strategies.

Table 4 presents the estimated annual savings per project for the ThermWise Business Custom Rebates program and the estimated net total program savings (based on participation). A net-to-gross ratio of 80% has been applied to the Net Total Savings values to account for “free ridership.”

Table 1. Business Custom Program Savings Estimates (Dth/yr)

Program Year	Business Custom Program
Gross Estimated Project Savings (Dth/project/yr)	501
Net Estimated Project Savings (Dth/project/yr)	401
Net Total Savings	7,513

Please refer to Figure 1 *Business Custom Program Process* on Page 5 for information on the procedures associated with the program.

The ThermWise Business Custom Rebates program will continue following Public Service Commission approval with the availability of processes demonstrated in Figure 1, as well as marketing and advertising support and data tracking systems.

Figure 1 *Business Custom Program Process* illustrates the framework of the administration process for the ThermWise Business Custom Rebates Program. Under program administration activities, engineering review will balance the need to insure customer and measure eligibility, verification of DSM measure installation, and program administrative costs.

Due-diligence review activities will include, at a minimum, verification of the following items:

- Customer account number.
- Installation address for submitted account number.
- Valid equipment installation date.
- Measure eligibility.
- Savings and cost estimates.
- Adherence of calculation and Measurement & Verification methodologies to standard industry practice.
- Accurate rebate amount.

Questar Gas will augment the technical submittal review with pre-installation and post-installation inspections as necessary. The inspection scope will contain, but not be limited to the following items:

- For most measures, the inspector verifies the accuracy of the baseline equipment quantity and nameplate information. If the proposed equipment has been installed before the pre-installation inspection, and the baseline conditions cannot be verified, the project will be rejected.
- For post-installation inspections, the inspector will verify that the eligible measure has been installed and is operating as described.
- The inspector will evaluate the commissioning plan's appropriateness for the measure and ensure sufficient performance of any necessary measurement activities. If measurements are necessary, the customer is required to perform any disruptions in equipment operation and the connection of measurement devices. If the inspection cannot be completed in a timely manner because the customer is unfamiliar with the project, the project will fail the inspection. If a project site fails two inspections, the customer must pay the cost incurred by Questar Gas for any subsequent inspections.

All pertinent ThermWise Business Custom Rebates program information will be tracked in a spreadsheet developed for the program. The spreadsheet will provide a listing of project contact information, project submittal dates, project savings, project costs, and measure technology.

Moreover, program related information will be tracked and available for reporting, including number of program participants and measure participation.