### **QUESTAR GAS**

# Energy Efficiency Roadmap August 1, 2006 Draft

#### I. Goal:

Short Term: Assist customers with lowering bills through demand side

management programs and energy efficiency measures.

Long Term: Accelerate market transformation through synergistic efforts and

support of major market participants.

#### II. Overview:

Questar Gas will lead and manage, with input and participation from the DSM Advisory Group, a comprehensive natural gas energy efficiency plan.

### III. Target Market

-Initial target market includes all Questar Gas Utah GS-1 customers.

### IV. DSM Programs and Energy Efficiency Measures

- -Residential prescriptive program
- -Increased funding for LIWAP
- -Energy Star-new homes programs
- -Residential low cost measures
- -Fee-based residential weatherization and audits
- -Energy efficiency education and awareness
- -Commercial prescriptive program
- -Commercial custom / audit program
- -Commercial low cost measures

## V. Cost Effectiveness for DSM Programs

- -Four standard DSM tests:
  - 1) Total Resource Costs (TRC)
  - 2) Rate Impact Test (RIM)
  - 3) Program Administrator Cost Test (PAC)
  - 4) Participant Cost Test

#### VI. Proposed Funding

- -Year 1 -\$2.0 to \$5.0 million
- -Year 2 -\$4.0 to \$8.0 million
- -Year 3 -\$5.0 to \$10.0 million

#### VII. Implementation and Timing

- -Prescriptive DSM Program(s) will be filed within 60 days of CET approval.
- -Prescriptive DSM Program(s) will be implemented upon approval by Utah PSC.
- -Increase funding for LIWAP upon CET and Utah PSC approval.
- -Develop / implement energy efficiency awareness campaign upon CET approval.
- -Begin ongoing RFP process for additional programs upon CET approval.

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- -Develop Energy Star New Homes program within 180 days of CET approval.
- -Develop Commercial Energy Audit program within 180 days of CET approval.
- -Annual evaluations and reporting will be completed 120 days following the end of Questar Gas' heating season.

## Program Research, Design & Implementation

- Program Identification
- Best Practices / Existing Programs Comparisons
- Geographic / Market Based Adjustments
- Strategy Development
- Program Analysis Template
  - Description & Overview
  - o Objective
  - Targeted Market Segment(s)
  - Measures
  - o Incentives
  - o Promotion / Marketing
  - o Estimated Market Penetration (Participation)
  - o Implementation Plan
  - o Costs, Budget & Funding
  - o Synergies
  - o Rate Impact
  - o Measurement, Evaluations & Tests
    - SWOT (Strengths Weaknesses Opportunities Threats)
    - Baseline Measures
    - TRC, RIM, PAC, PCT
    - Participant Tracking & Measurement
    - Follow-up Research / Measures
  - o Estimated Savings
    - Participants
    - Customers
    - Gas (Dth)
  - o Extraneous Benefits
    - Societal Benefits
    - Non-monetary Benefits
  - Other Issues
- Some or all of program research, design, implementation and/or measurement and evaluation may be contracted to 3<sup>rd</sup> party vendors and may include:
  - o Pay for Performance / Incentive Based
    - Based on reduction in Dth

### **OUESTAR GAS**

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 As with all QGC Energy Efficiency (DSM) initiatives, program research, design, implementation and evaluation will be a collaborative effort with the DSM Advisory Group.

#### Original Program Master List

This is a list of potential programs / initiatives that may be implemented pending further research, evaluation and approvals.

- Programmable Thermostat (GDS)
- Water Heater Blanket (GDS)
- Energy Star Clothes Washer (GDS)
- Energy Star Windows (GDS)
- High Efficiency Gas Space Heating (GDS)
- Residential Weatherization & Insulation Non Low Income (GDS)
- Low Income Residential Weatherization & Insulation (GDS)
- Energy Star Homes Program (GDS)
  - o New Construction
  - o Existing Retrofit & Renovation
- High Efficiency Water Heating Equipment (GDS)
- Residential Energy Audits
- Insulation Upgrade
- Commercial Building Envelop Audit
- Commercial Boiler Tuning
- Self-directed / Installed Energy Conservation Measures
  - o Residential and/or Commercial
- Education Programs & Advertising
  - o School Programs
  - o Community Programs
  - o "Ask A Tech"
  - o Technology Information Center (SW Gas)
- Multi-family New Construction
- Multi-family Retrofit
- Commercial Dishwasher Spray Nozzles
- High Efficiency Commercial Food Service Equipment
- Low Flow Shower Heads
- Tank less Water Heaters
- Ground Source Heat Pumps
- Direct Use Geothermal Heat Source Applications

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Supplemental Solar Air & Water Heating??

- Distributed Generation (Load Balancing / Fuel Switching / Source Efficiency)??
  - o Residential CHP
  - o Commercial DG & CHP