



SOUTHWEST GAS CORPORATION

THE NATURAL CHOICE...

Demand Side Management Programs Arizona

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Background

- ACC approved Southwest's request to spend \$4.4 million annually on DSM
- Portfolio of DSM programs aimed at all customer classes filed June 2006
- 6 programs have received approval



DSM Programs

■ Residential:

- ENERGY STAR® Home
- Consumer Products
- Low-Income Energy Conservation (LIEC)
- Multifamily New Construction (pending approval)

■ Non-Residential:

- Commercial Equipment
- Distributed Generation
- Technology Information Center



ENERGY STAR® Home

Approved June 2007

- **Goal:** Increase the number of newly constructed ENERGY STAR homes throughout Arizona
- **Approved Annual Budget:**
2008 = \$350,000 and 2009 = \$450,000
- **Estimated Commitments 2008:**
Tucson = 4,000 homes and Phoenix = 2,000 homes
- **Services to Homebuilders**
 - Plan review
 - Inspections and testing
 - Training and educational seminars
 - Consumer awareness



ENERGY STAR® Home

(continued)

■ Implementation

- Tucson: Plan review and inspections provided by Southwest for participating builders.
- Phoenix: Participating builders will be given \$125 per home towards the cost of plan review and inspections by the HERS provider of their choice. Funds will be distributed as homes are built and inspected.

■ Training

- National EEBA Conference in Phoenix, October 2008
- Joint training classes
- Onsite field training as needed for builders

■ Outreach

- Tri-folds (general and custom)
- Flyers (builder and consumer)
- Bill insert
- Limited advertising
- Other Events (Example: Parade of Homes)



Consumer Products

One year pilot program approved in September 2007

- **Goal: Increase awareness and purchase of high efficiency natural gas water heaters**
- **Approved Annual Budget: \$775,000**
- **Estimated Participants:**
 - 6,000 to 8,000 units
- **Rebate**
 - \$75 per unit
 - Purchase and installation of a high-efficiency water heater with an Energy Factor of .62 or higher
 - One per household – while funds are available
 - All Southwest residential customers in Arizona eligible



Low-Income Energy Conservation (LIEC)

- **Goal: Improve the energy efficiency of qualified low-income households**
 - Conservation education
 - Comprehensive weatherization assistance
 - Emergency Bill Assistance
- **Approved Annual Budget = \$500,000**
 - Weatherization = \$450,000
 - Emergency Bill Assistance = \$50,000



Multi-family New Construction

(pending ACC approval)

- **Goal: Increase the energy efficiency of multi-family dwellings both apartments and condominiums**
 - An underserved population
 - Often lower- and middle-income
- **Proposed Budget and Participation:**
 - 2008 = \$300,000 for 500 units
 - 2009 = \$700,000 for 1,000 units
- **Guidelines**
 - Thermal Shell Improvements: duct sealing and proper installation of insulation
 - Hydronic heating system with natural gas water heating
- **Incentives following inspections**
 - Dual Energy = \$300 per unit
 - All Electric = \$700 per unit



Summary of Estimated Savings and Environmental Benefits

kilowatt-hours	= 2.2 billion
kilowatts	= 43,500
Therms	= 63.8 million
Carbon dioxide	= 2.1 billion pounds
Nitrous oxides	= 400,000 pounds
Sulfur dioxide	= 10,000 pounds
Water	= 2.7 billion gallons

Note: Figures are approximate lifetime savings



Questions?

