



**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

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

Note: Figures are approximate lifetime savings



# Questions?

