

Energy Efficiency and Climate Protection in Austin



Alexander (Sascha) Petersen
CATEE Conference
December 16, 2008

Overview

- Climate Protection Program
- Demand Side Management
- Homes and Buildings



Austin Climate Protection Plan

- Municipal Plan
- Utility Plan
- Homes and Buildings Plan
- Community Plan
- “Go Neutral” Plan



Austin Climate Protection Plan

- Municipal Plan
- Utility Plan
- Homes and Buildings Plan
- Community Plan
- “Go Neutral” Plan





Utility Plan



- Establish a CO₂ emissions cap and reduction plan
- New generation carbon neutral through:
 - GHG emissions reduction technologies
 - Mitigation measures
- 700 MW of energy savings through energy efficiency and conservation by 2020
- Meet 30% of all energy needs with renewable sources, including 100 MW of solar, by 2020





Homes and Buildings Plan

- Enhance building codes to make new single-family homes zero net-energy capable by 2015
- All new buildings 75% more efficient by 2015
- Require disclosure of historic energy use and cost-effective energy efficiency improvements
- Enhance technical assistance, standards, and incentives for Austin Energy's Green Building program



Energy Efficiency

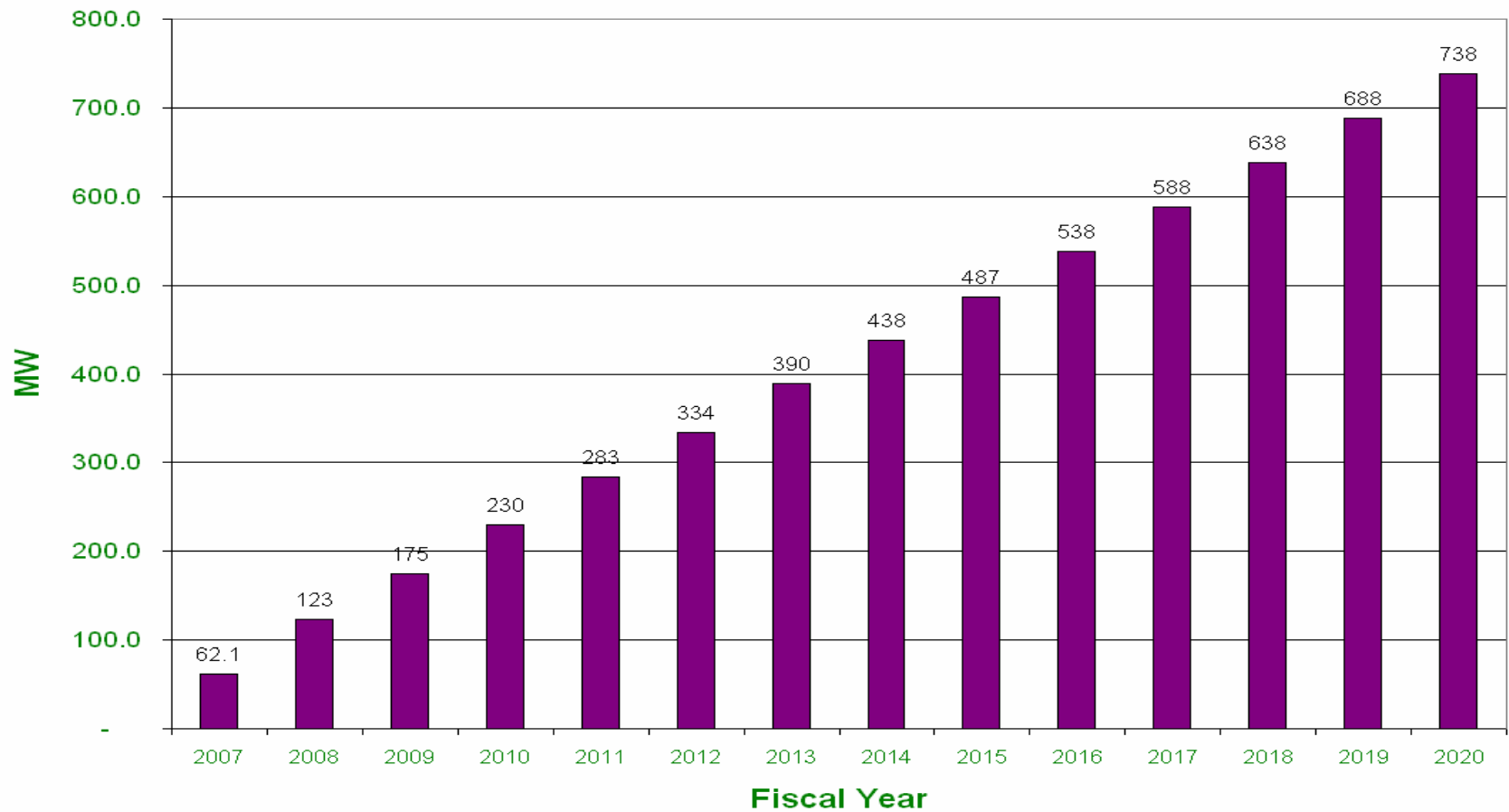
- **Austin Energy**
 - Municipal-Owned Electric Utility
 - *9th Largest Municipal Utility*
 - Generation – 2,700 MWs

- Program began 1982
 - Peak Demand Savings – 772 MW
 - Energy Savings – 1.2 Million MWh
 - 620,000 + participants



DSM Projected Savings

~50% of expected growth



Source: Austin Energy



Energy Efficiency

- **Example Programs**
 - Energy Audits
 - Programmable Thermostats
 - Weatherization
 - Solar Screens
 - Water Conservation
 - CFL Retail Coupons
 - Refrigerator Buy-Back/Recycling



New Home Construction

Climate Protection Goal:
Zero-net energy capable by 2020

- 65% more Efficient
- 2006 Building Code Amendments
 - 11% more Efficient
 - Cost Effective



Energy Efficiency Upgrades

Climate Protection Goal: Energy Efficiency in Existing Buildings

- Ordinance Passed Nov. 6, 2008
 - Single-family, Multi-family, Commercial
- Mandatory Energy Audit
- Voluntary Targets



Thank You



Sascha Petersen
Sascha.petersen@austinenergy.com

Austin Climate Protection Program
811 Barton Springs Rd.
Austin, TX 78704

