

NERC's Demand Response Data

Collection: System Adequacy

2007 Emerging Issue Focus



Transmission

*Green House Gas (CO₂)
Regulation & Renewable
Mandates*

Aging Workforce

EP Act 2005

Modernization

Equipment Availability

Balance for System Reliability & Adequacy

Renewables

Nuclear Power

Fossil-Fuel Security

Hot Weather &
Plant Capacity

Power System

Static/Dynamic
Reactive Sources

Advanced
Planning Tools

Demand
Response

Extreme Weather
Impact Demand

Supply

Demand



NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Demand-Side Management

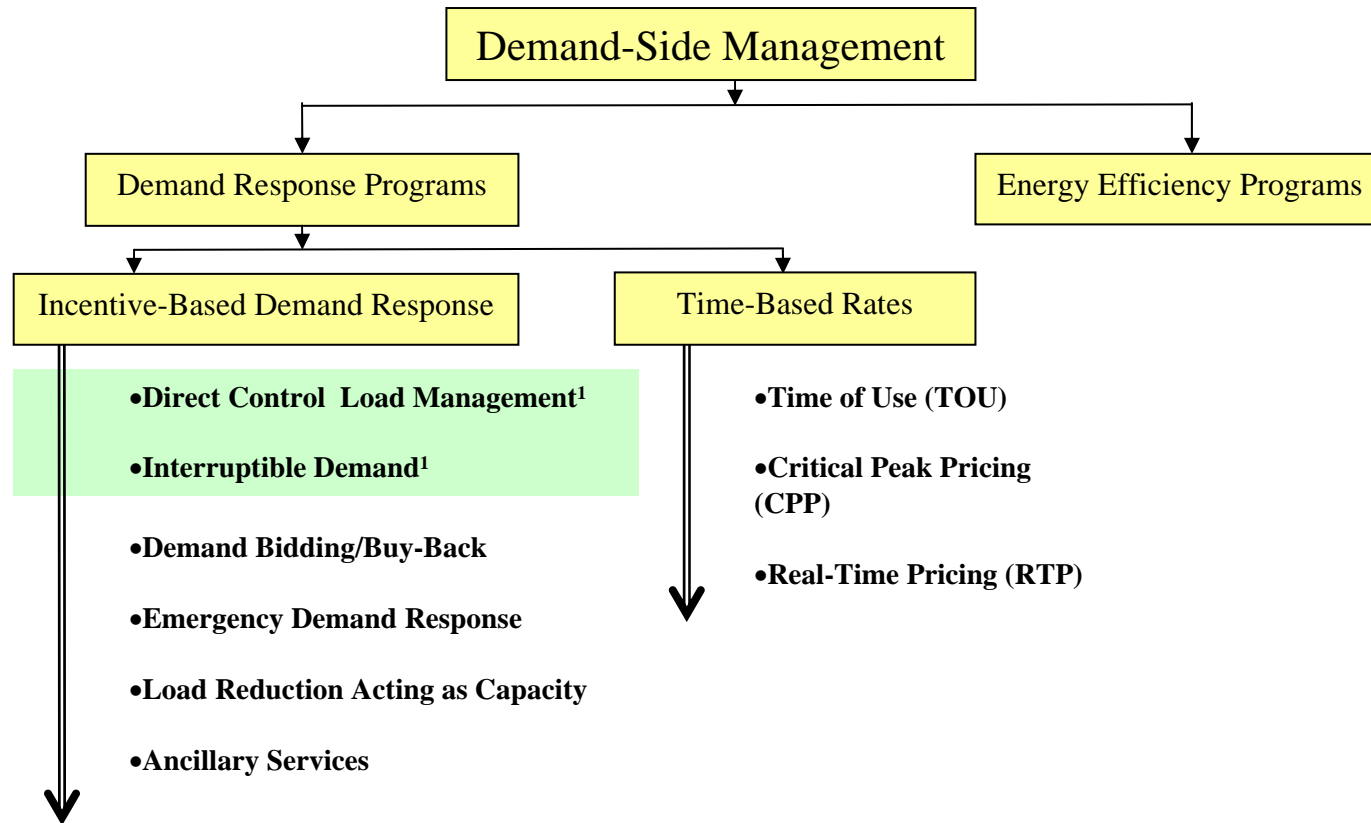


Figure 1: DSM Programs: Focused on Demand Response

¹ Data on these Demand Response Programs are collected by NERC for Seasonal and Long-Term Reliability Assessments

Current NERC Data Collection

- **Direct Control Load Management**

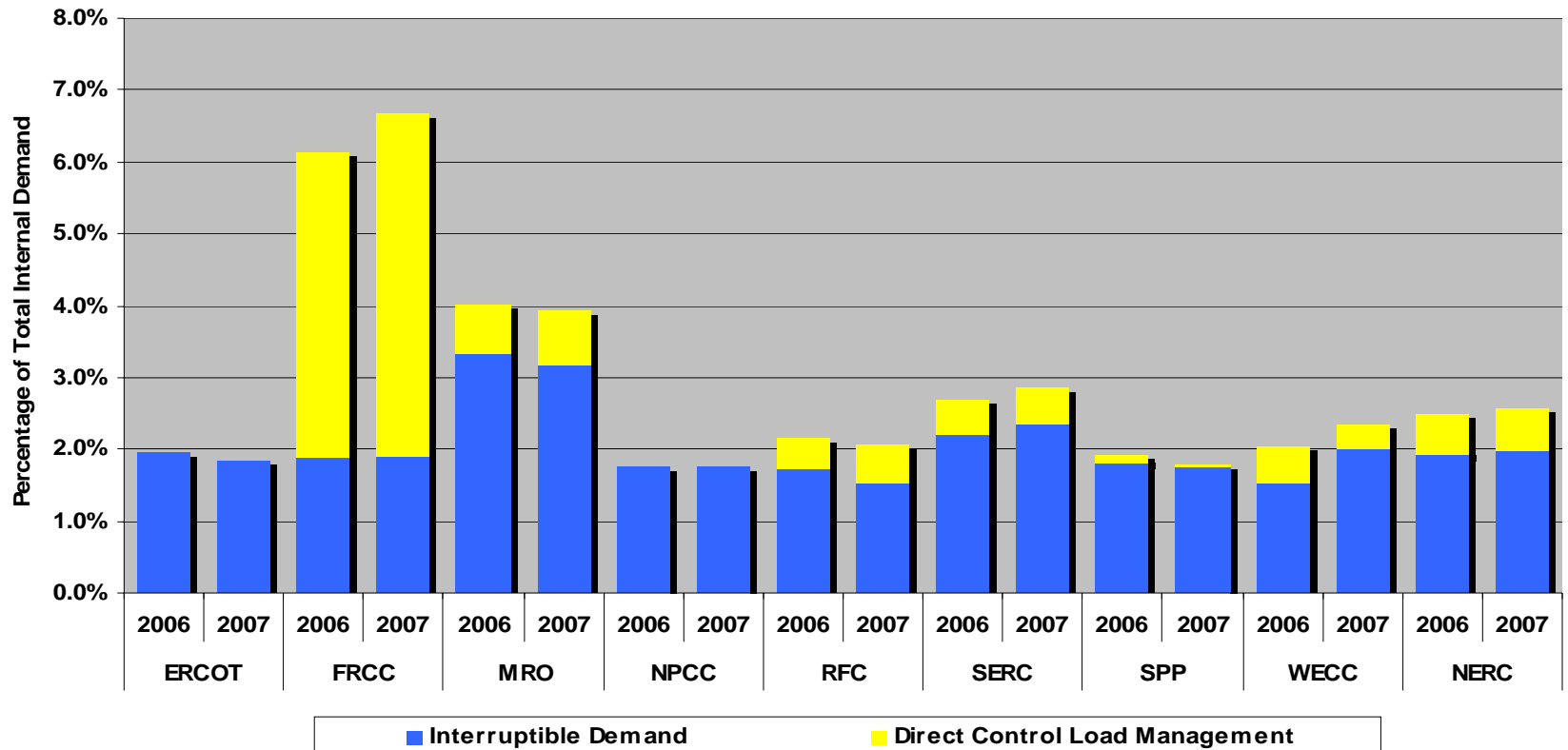
Magnitude of Customer demand that can be interrupted by Regional Council On Peak. Focused on Residential customers

- **Interruptible Demand**

Magnitude of customer demand, in accordance to contractual agreement, can be interrupted by the Regional Council on Peak. Direct action by operator or customer and can be used to fulfill planning or operating reserve

2006/2007 Summer Assessment Regions

Interruptible Demand & Direct Control Load Management



Next Steps

- **NERC Study on Influence of Demand Response on Reliability**

Goal to identify what programs influence reliability and adequacy, suitable models, and data collection requirements

- **Actions from Study Incorporated**

Target enhancements in the 2008 Summer and Long-Term Reliability Assessments