FLORIDA PUBLIC SERVICE COMMISSION

WORKSHOP ON COST-EFFECTIVENESS OF ENERGY EFFICIENCY

On Behalf of

The Natural Resources Defense Council & The Southern Alliance for Clean Energy

PRESENTED BY: E. Leon Jacobs, Jr. Williams & Jacobs

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FLORIDA ENERGY POLICY

- Driven More Prominently By Externalities
- Issues of Vast Scope
- Challenged to Meet Phenomenal Growth in Demand
- Highly Vulnerable to Global Energy Markets



FLORIDA'S ENERGY MARKET

• Explosive Growth in Consumption –

Avg. Household Consumption (million BTUs) 1993 2001California 65.2 60.7 Florida 52.1 155.6 New York -121.160.9 152.4 94.7 Texas Source: Energy Information Administration

FLORIDA'S ENERGY MARKET

Annual Growth rate: 900 MW - 1,500 MW per year

At Present Pace, Projected to Build
 45 New 500 MW Plants by 2020

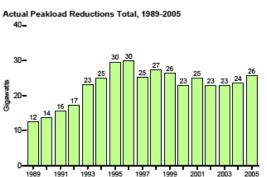
FLORIDA'S ENERGY MARKET

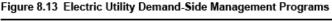
Important Challenges:

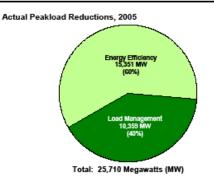
Transmission Constraints
Nuclear Expansion (4 proposed new units)
Fuel Diversity
Environmental Regulations



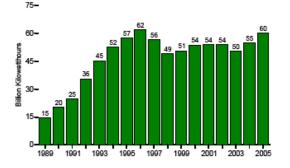
FLORIDA'S ENERGY POLICY Offers substantially diminished role for energy efficiency despite potential benefits.



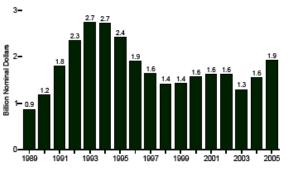




Energy Savings, 1989-2005







Source: Table 8.13.

■ WHAT SHOULD BE ITS CONTENT?

■ WHAT DOES IT COST?

• WHAT DOES IT SAVE?

 Navigant Consulting Overview of DSM Potential Studies – Cost of Energy Saved (*Estimates of \$/kWh saved*)

Source	Residential	Commercial	All Sectors	
2002 Southeastern			\$.026	
States Study				
2005 ACEEE EE To Address				
Midwest Gas Crisis Study	\$.044	\$.024		
2003 ACEEE Price Effects				
of EE and RE Study	\$.051	\$.029		
2006 WGA Study				
DSM Programs			\$.025	
Public Sector			\$.047	
State of Connecticut	\$.041	\$.021	\$.031	
Current SCE Plans			\$.031	
Current PG&E Plans			\$.037	

Electricity Savings Achieved Per Year in Leading States[1]

	<u>Year</u>	Annual Incrl <u>GWh Savings</u>	<u>kWh Sales</u>	<u>Savings/Year (%)</u>
California	2001	4760	239,654	2.0%
	2002	pending	235,249	pending
Connecticut	2001	314	30,000	1.0%
	2002	246	31,000	0.8%
Massachusetts	2000	273	51,773	0.5%
	2001	309	52,092	0.6%
Rhode Island	2001	61	7,341	0.8%
	2002	51	7,516	0.7%
Vermont	2001	37	5,051	0.7%
(Efficiency	2002	41	5,077	0.8%
VT only)	2003	54	5,127	1.1%
	2005			

[1] Source: Nadell Steven, Anna Shipley, R. Neal Elliott, *The Technical, Economic and Achievable Potential of Energy Efficiency in the US – A Meta Analysis*, American Council for an Energy-Efficient Economy (2004).

 It Is Vitally Important That There Be A More Complete Analysis of the True Life-Cycle Costs, Risks and Benefits Of Energy
 Efficiency Resources Available To Meet the Demand In Florida

• MOST SIGNIFICANT OPPORTUNITIES

- Integrated Planning
- Development of Demand-Side Strategies
- Innovation in Energy Efficiency
- Cultivation of Renewables and Distributed Generation

MARGINALIZES PORTFOLIO MANAGEMENT STRATEGIES

Alliance to Save Energy reports:

"Hundreds of untapped MW savings as a result of underutilization of energy efficiency and renewables"

Thank You!

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