



# Governor's Action Team on Energy and Climate Change

*State of Florida*

## Governor's Action Team on Energy and Climate Change Phase II Process

*Energy Supply and Demand  
Technical Work Group (TWG)*

*Meeting #16*

*September 2, 2008*

# Welcome and Introductions

- Action Team TWG Members
- Florida Department of Environmental Protection
- Members of the Public
- Center for Climate Strategies

# Agenda

- Introductions
- Meeting Purpose and Goals
- Approval of Prior Call Summary
- Update on Inventory and Forecast
- Review of Newly Quantified Options (ESD-5, ESD-3, ESD-8, ESD-9, ESD-11)
- Review of other options (ESD-6, ESD13a, ESD-12) including text for ESD-7 IRP
- Review of Next Steps
- Public Comments
- Announcements

# Approval of Call Summary

- Review and approval of draft meeting summary for ESD TWG Call #15

# Inventory & Forecast

# Summary List of Priority Policy Options for Analysis – Tier 1

Policy No.	Policy Option	GHG Reductions (MMtCO <sub>2</sub> e)			Net Present Value (See Note 2) 2009–2025 (Million \$)	Cost-Effectiveness (\$/tCO <sub>2</sub> e)	Status of Option	
		2017	2025	Total 2009–2025				
<b>Tier 1</b>								
ESD-3	Renewable Energy Incentives and Barrier Removal [30% by 2025]	21	64	481	\$67,944	\$141	Pending	
ESD-5	Renewable Portfolio Standard (RPS)						Pending	
	Option 1: 20% by 2020	19	58	437	\$56,517	\$129		
	Option % by 2025	16	43	336	\$37,333	\$111		
ESD-6	Nuclear Power	0.0	11.2	69.2	\$1,782	\$26	Pending	
ESD-7	Integrated Resource Planning (IRP)	<i>Not to be quantified</i>						Pending
ESD-8	Combined Heat and Power (CHP) Systems	1.8	2.9	28.3	\$217	\$8	Pending	
ESD-9	Power Plant Efficiency Improvements	9.9	13.6	143.5	–\$1,528	–\$11	Pending	
ESD-11	Waste-To-Energy (WTE)	3.7	8.8	65.4	\$79	\$1	Pending	
ESD-12	Demand-Side Management (DSM)/Energy Efficiency Programs, Funds, or Goals for Electricity	16.0	35.4	277.4	–\$8,767	–\$32	Pending	
ESD-13a	Energy Efficiency in Existing Residential Buildings	3.9	8.0	64.5	\$572	\$9	Pending	
ESD-14	Improved Building Codes for Energy Efficiency	0.0	7.3	14.5	\$33	\$2	Pending	
ESD-15	Training and Education for Building Operators and Community Association Managers	<i>Not to be quantified</i>						Pending
ESD-17	Consumer Education Programs	<i>Not to be quantified</i>						Pending
ESD-23	Decoupling	<i>Not to be quantified</i>						Pending

# Summary List of Priority Policy Options for Analysis – Tier 2

Policy No.	Policy Option	GHG Reductions (MMtCO <sub>2</sub> e)			Cumulative Net Costs (present value) 2009–2025 (Million \$)	Cost-Effectiveness (\$/tCO <sub>2</sub> e)	Status of Option
		2017	2025	Total 2009–2025			
<b>Tier 2</b>							
ESD-1	Technology Research and Development (R&D) with Commercial Opportunities						Pending
ESD-4	Electricity Transmission and Distribution Improvements						Pending
ESD-13b	Incentives for New Residential Buildings and Master Planned Communities Achieving High Energy Performance Standards						Pending
ESD-16	More Stringent Appliance/Equipment Efficiency Standards						Pending
ESD-18	Incentives to Promote Implementation of Customer-Sited Renewable Energy Systems						Pending
ESD-21	Rate Structures and Technologies to Promote Reduced Greenhouse Gas (GHG) Emissions						Pending
ESD-22	Demand-Side Management (DSM)/Energy Efficiency Programs, Funds, or Goals for Natural Gas						Pending

# Stepwise Planning Process

1. Get organized
2. Review and refine inventory & forecast of emissions
3. Identify a full range of possible actions
4. Identify initial priorities for analysis
5. Develop straw policy design proposals
6. *Quantify initial GHG reductions and costs/savings*
7. Fully develop policy option templates, including externalities, feasibility issues
8. Develop alternatives to address barriers as needed
9. Aggregate and integrate results
10. Finalize and report recommendations

# Development of Policy Options

- Design Template / Matrix
  - Policy description
  - Policy design (goals, timing, parties involved)
  - Potential implementation mechanisms
  - Related policies/programs in place
  - Type(s) of GHG reductions
  - Estimated GHG reductions and costs or cost savings
  - Key uncertainties
  - Types of additional (non-GHG) benefits and or costs
  - Feasibility issues, if needed

# TWG Goals for Action Team Meeting #6

- Review and Approval of ESD Policy Options
- Ensure ESD TWG input to ESD I&F
- Evaluate quantification of ESD options

# Timing – Action Team Meetings

<b>Date</b>	<b>Location</b>	<b>Action</b>
February 1, 2008	Tallahassee	1 <sup>st</sup> Action Team meeting
March 17, 2008	Tallahassee	2 <sup>nd</sup> Action Team meeting
May 29-30, 2008	Tallahassee	3 <sup>rd</sup> Action Team meeting
July 9-10, 2008	Tallahassee	4 <sup>th</sup> Action Team meeting
August 6-7, 2008	Orlando	5 <sup>th</sup> Action Team meeting
August 22, 2008	St. Petersburg	Canceled due to Faye
<b>September 17-18, 2008</b>	<b>Tallahassee</b>	<b>6<sup>th</sup> Action Team Meeting</b>
October 1-2, 2008	Tallahassee	7 <sup>th</sup> Action Team Meeting
October 15, 2008		Phase II Final Report due
Between Action Team Meetings		TWG conference calls and meetings

# Next TWG Meeting

- Agenda:
  - Complete Policy Options (including types of GHG and GHG reduction estimates and cost/savings)
  - Continue review, revisions to ESD I&F
  - Evaluate quantification of options
- Next ESD TWG Meeting:
  - September 9 (Tues) from 1:30-3:30 p.m. EDT



# Complete TWG Schedule

**Call #17:** September 9 (Tues) 1:30-3:30 p.m.

**Call #18:** September 23 (Tues) 1:30-3:30 p.m.

# Public Input, Announcements