



Energy & Utilities Subcommittee

**Tuesday, February 22, 2011
212 Knott Building
9:00 AM – 12:00 PM**

ACTION PACKET

**Dean Cannon
Speaker**

**Clay Ford
Chair**

Committee Meeting Notice

HOUSE OF REPRESENTATIVES

Energy & Utilities Subcommittee

Start Date and Time: Tuesday, February 22, 2011 09:00 am

End Date and Time: Tuesday, February 22, 2011 12:00 pm

Location: Webster Hall (212 Knott)

Duration: 3.00 hrs

Presentation relating to "Grid Modernization" and "Smart Grid"

Dave Cartes, Ph.D., Director
Institute for Energy Systems Economics and Sustainability
Florida State University

Presentation of a Policy Briefing entitled, "Renewable Energy in the South"

Marilyn A. Brown, Ph.D., Professor
School of Public Policy
Georgia Institute of Technology

Etan Gumerman, Ph.D., Scientific Engineer
Nicholas Institute for Environmental Policy Solutions
Duke University

Presentations from Providers of Conventional and Renewable Energy Resources

NOTICE FINALIZED on 02/15/2011 16:20 by Sims-Davis.Linda

COMMITTEE MEETING REPORT

Energy & Utilities Subcommittee

2/22/2011 9:00:00AM

Location: Webster Hall (212 Knott)

Summary: No Bills Considered

Committee meeting was reported out: Tuesday, February 22, 2011 3:34:21PM

COMMITTEE MEETING REPORT

Energy & Utilities Subcommittee

2/22/2011 9:00:00AM

Location: Webster Hall (212 Knott)

Attendance:

	<i>Present</i>	<i>Absent</i>	<i>Excused</i>
Clay Ford (Chair)	X		
Ben Albritton	X		
Charles Chestnut IV	X		
Jeff Clemens	X		
Janet Cruz	X		
Daniel Davis	X		
Shawn Harrison	X		
Clay Ingram	X		
George Moraitis, Jr.	X		
Peter Nehr	X		
Kathleen Passidomo	X		
Elizabeth Porter	X		
Michelle Rehwinkel Vasilinda	X		
W. Gregory Steube	X		
Alan Williams	X		
Totals:	15	0	0

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Other Business Appearance:

Grid Modernization and Smart Grid

Dave Cartes, Ph.D. (State Employee) (At Request Of Chair) - Information Only

IESES - Florida State University

2000 Levy Avenue, Suite 360

Tallahassee Florida 32310

Phone: 850-264-1903

Providers of Conventional and Renewable Energy Resources

J. R. McLelland (At Request Of Chair) - Information Only

Florida Natural Gas Association

702 N. Franklin Street

Tampa Florida 33602

Phone: 813-228-4664

Providers of Conventional and Renewable Energy Resources

Bruce Kershner (Lobbyist) - Information Only

Florida Solar Energy Industries Association

231 West Bay Avenue

Longwood Florida 32750

Phone: 407-788-5570

Providers of Conventional and Renewable Energy Resources

Bill Gallagher - Information Only

Florida Solar Energy Industries Association

1523 Ridgewood Avenue

Holly Hill Florida 32117

Phone: 386-527-1437

Providers of Conventional and Renewable Energy Resources

Suzanne Brownless, Attorney - Information Only

Florida Solar Energy Industries Association

433 N. Magnolia Drive

Tallahassee Florida 32308

Phone: 850-877-5200

Providers of Conventional and Renewable Energy Resources

Richard Pinsky (Lobbyist) - Information Only

Distributed Energy Coalition

106 E. College, Suite 1200

Tallahassee Florida 32301

Phone: 561-202-0990

Providers of Conventional and Renewable Energy Resources

Buck Martinez (At Request Of Chair) - Information Only

Florida Power & Light

700 Universe Blvd

Juno Florida 33408

Phone: 561-691-2365

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Providers of Conventional and Renewable Energy Resources

Sean Stafford (Lobbyist) - Information Only

Florida Crystals Corporation

One N Clematis St Ste 200

West Palm Beach FL 33401

Phone: 850-727-5000

Providers of Conventional and Renewable Energy Resources

Joseph Treshler - Information Only

Covanta Energy Corporation

14230 Hays Road

Spring Hill Florida 34610

Phone: 727-919-7721

Providers of Conventional and Renewable Energy Resources

Ryder Rudd (Lobbyist) (At Request Of Chair) - Information Only

Citizens for Clean Energy

Post Office Box 1055

Tallahassee Florida 32302

Phone: 850-294-3767

Providers of Conventional and Renewable Energy Resources

Kerinia Cusick, - Information Only

Sun Edison

12500 Baltimore Avenue

Beltsville Maryland 20705

Phone: 443-909-2200

Providers of Conventional and Renewable Energy Resources

Jon Moyle (Lobbyist) - Information Only

Waste Management, Inc, Wheelabrator Technologies, Inc & FL Biomass Coalition

118 N Gadsden St

Tallahassee Florida 32301

Phone: 850-681-3828

Providers of Conventional and Renewable Energy Resources

Jeff Ates - Information Only

Integrated Energy Partners

5109 Holcombe Road

Milton Florida 32583-5442

Phone: 850-712-4575

Providing Revenue-Neutral Incentives to Grow/Process Renewable Crops in Florida

Steven Webster (Lobbyist) - Information Only

MW Consulting/Florida Feedstock Growers Association

122 S Calhoun

Tallahassee Florida 32301

Phone: 850-391-7674

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Renewable Energy in the South
Marilyn Brown - Information Only
Georgia Institute of Technology
21 Maddox Drive, NE
Atlanta Georgia 30309
Phone: 404-275-0482

Renewable Energy in the South
Etan Gumerman - Information Only
Nicholas Institute for Environmental Policy Solutions
Box 90335 Duke University
Durham North Carolina 27708
Phone: 919-613-8748

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Investing in a Clean Energy Future for Florida

Existing solar plants and some of the potential future opportunities

Manatee County

- » Potential 40 MW pending legislation and regulatory approval

DeSoto Solar Expansion

- » Opened as the nation's largest solar PV project at 25-MW
- » Potential additional 275 MW pending legislation and regulatory approval

Charlotte County/ Babcock Ranch

- » Potential 75 MW pending legislation and regulatory approval

Florida Heartland

- » Potential 125 MW pending legislation and regulatory approval

Space Coast Expansion

- » 10-MW solar PV near Kennedy Space Center opened April 2010
- » Potential additional 10 MW pending legislation and regulatory approval

Martin County

- » Largest solar thermal plant in the eastern United States
- » Capital investment of approximately \$400 million
- » During construction, created more than 1,100 direct jobs, the majority of which were filled by Floridians
- » Estimated to save customers \$178 million in fuel costs over its lifetime
- » Estimated first-year tax revenue is \$5.85 million and averages \$3.1 million/year over 25 years (total of \$78 million over the life of the project)
- » Indirect economic impact includes more than 150 companies located in Florida that supported the construction such as Hydro Aluminum in St. Augustine, Schuff Steel in Orlando, and McKenzie Tank in Tampa



The Business Case for Renewable Legislation

Job Creation

- » Legislation passed in 2008 (HB 7135) enabled FPL to quickly put people to work building 110 megawatts of large-scale solar generation.
 - Created 1,500 direct jobs during construction, the majority of which were filled by Floridians
 - Construction efforts were supported by hundreds of Florida businesses, creating an estimated 3,500 indirect jobs
- » If the state were to enable utilities to pursue renewable energy projects up to 2 percent of revenues, FPL would immediately begin construction on more than 500 megawatts of new solar projects.
 - Several projects are permitted and shovel-ready
 - Potential for 10,000-15,000 new direct and indirect jobs in first three years
- » The capital investment of these projects would generate substantial tax revenues for local communities over the 30 year life of each project.
 - For a typical 100-megawatt project, the estimated initial tax payment is \$5 million to \$10 million in the first year of operation
- » Position Florida as a leader in clean energy generation and as an economic hub for the development of cutting-edge technology that will rival job corridors in other states.
 - Make Florida a magnet for renewable manufacturers, research dollars at the state's universities, and good-paying jobs in a dynamic growth industry

According to a non-partisan scientific statewide poll, **more than 80 percent of Floridians** support their elected leaders taking action to increase renewable energy production in Florida, and **more than 70 percent of Floridians** believe that paying a dollar or more on their monthly utility bills is reasonable for renewable energy production.

Source: Florida TaxWatch, Nov. 2010 statewide survey of 800 Florida ratepayers conducted by McLaughlin & Associates and Anzalone-Liszt; MOE +/- 3.4%

Cost-Wise Investment

Bill Impact for FPL Residential Customer (\$/1,000-kwh)	Current 110 MW (DeSoto 25 MW completed Oct. 2009; Space Coast 10 MW April 2010; Martin 75 MW Dec. 2010)	Per incremental 100 MW of new solar projects
First full-year monthly bill	Less than 75 cents	About 50 cents
Average monthly bill over plant lifetime	Less than a quarter	About a dime

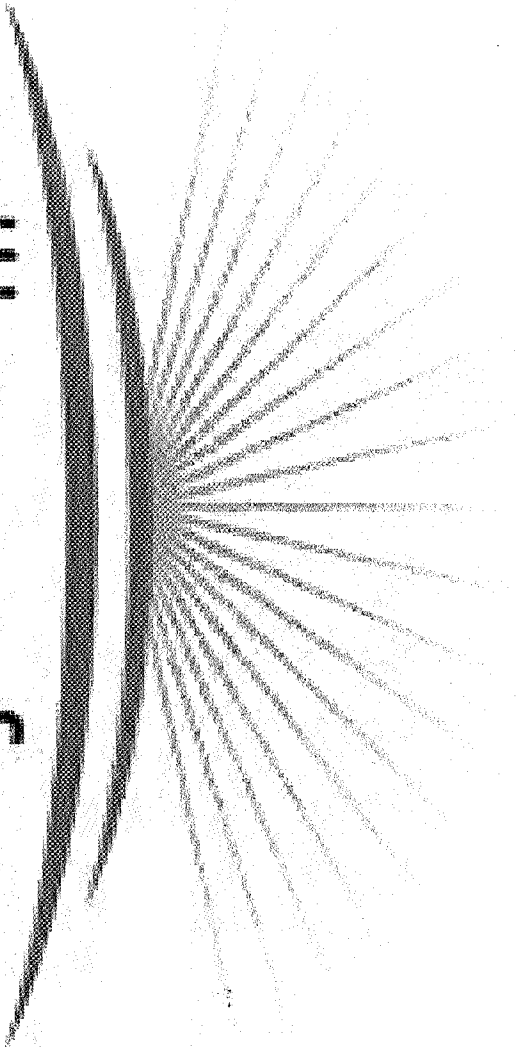
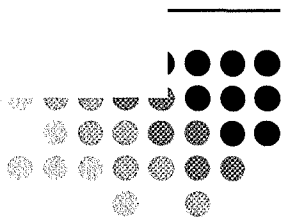
Broader Impact

A theoretical 700 megawatts of new solar generation could expand the state's total economic activity over time by \$8.1 billion and add an estimated 40,000 new jobs.

Industry	Jobs Supported
Manufacturing / Construction	18,018
Knowledge-Based Services	13,244
Wholesale Trade & Transportation Services	3,077
Retail Trade	2,513
Visitor Industry	1,748
Government & Other	1,447
Total All Industries	40,045

Source: Washington Economics Group study on potential economic impacts of solar generation in Florida, April 2010. Commissioned by Global Energy United.

In addition, several renewable energy industry companies have committed to locating manufacturing, R&D and assembly facilities to Florida if the right legislative and regulatory framework is in place to support renewable energy.



citizens for cleaneenergy

www.citizensforcleaneenergy.com



Florida's Energy Future

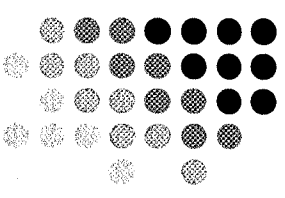
The Dawn of a New Era

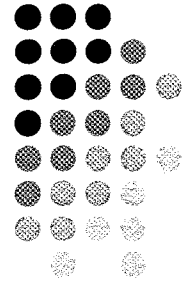
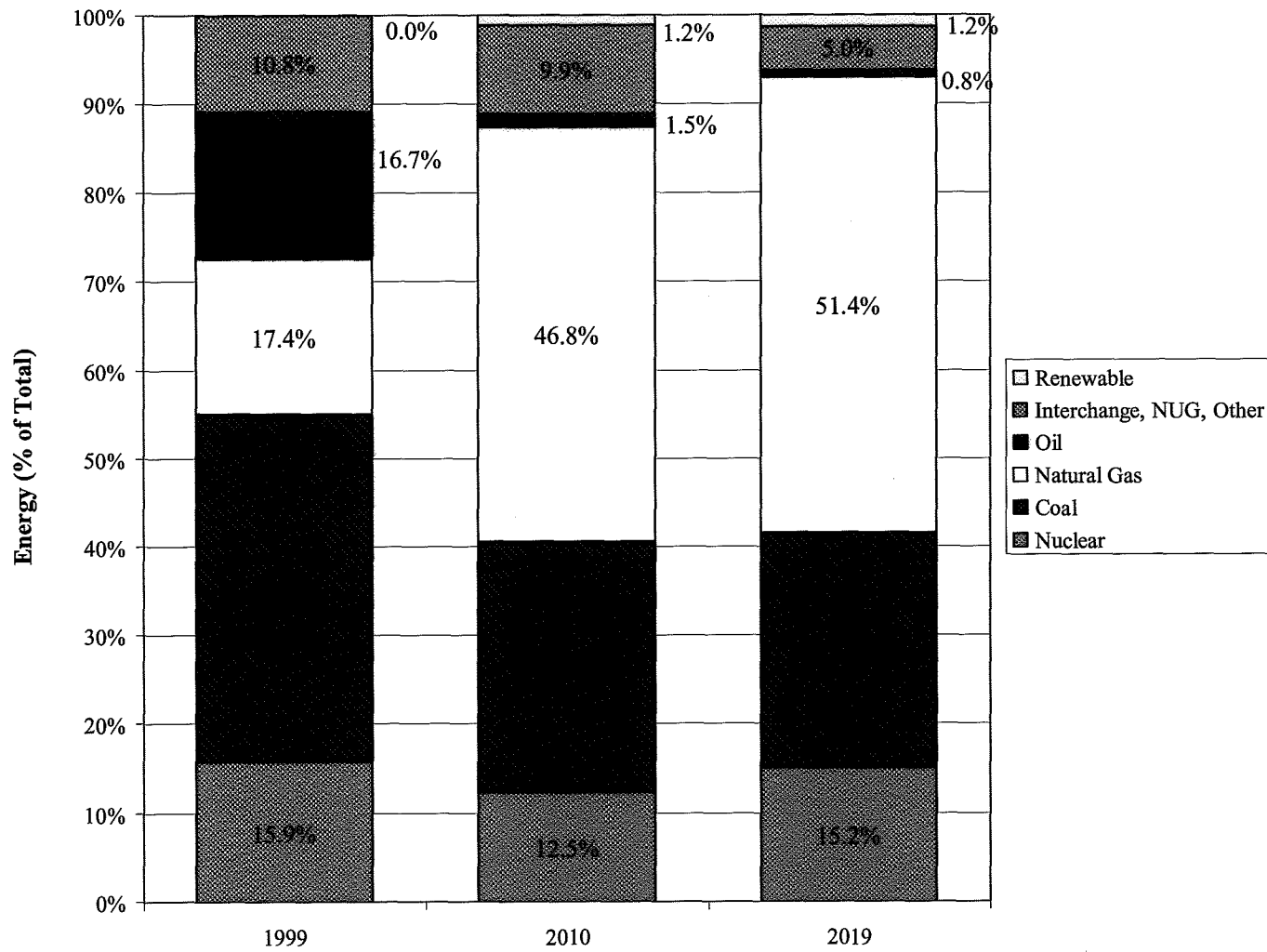
Ryder Rudd

Citizens for Clean Energy

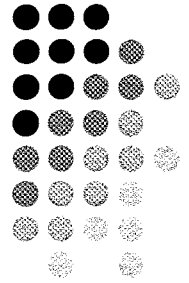
Renewable Energy?

- **Diversity of our Fuel Mix and Increase Energy Security**
- **Economic Development**
- **Environmental**



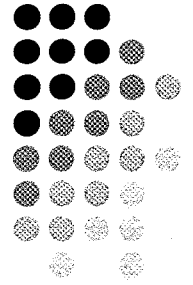


Diversified Fuel Mix/Energy Security

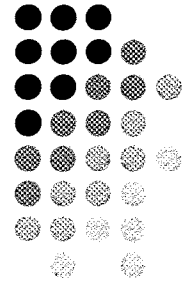


- Reduce our reliance on foreign sources of oil
- Reduce or dependence on fossil fuels
- Less volatility on pricing for fuel
- The largest utility in the State is limited to 2 pipelines of natural gas which will soon provide 76% of it's energy

Economic Development



- Florida will be a leader in a new global industry and positioned to attract manufacturing, R&D and become a net exporter of renewable goods and services
- Create thousands of direct and indirect jobs
- Reduce the States unemployment payout by tens of millions of dollars a year



We do have a choice

By removing regulatory restrictions that prevent power companies from building renewable energy facilities and purchasing power from renewable energy providers, we will reduce our dependence in fossil fuels, clean up our environment, stimulate our economy, and put people back to work in a state of the art industry.