

Committee on Energy

**Wednesday, February 6, 2008
8:00 AM – 12:00 PM
Morris Hall (17 HOB)**

COMMITTEE ACTION PACKET

**Marco Rubio
Speaker**

**Paige Kreegel
Chair**

COMMITTEE MEETING REPORT

Committee on Energy

2/6/2008 8:00:00AM

Location: Morris Hall (17 HOB)

Attendance:

	<i>Present</i>	<i>Absent</i>	<i>Excused</i>
Paige Kreegel (Chair)	X		
Gary Aubuchon	X		
Loranne Ausley	X		
Donald Brown	X		
Edward Bullard	X		
Larry Cretul	X		
Terry Fields	X		
Andy Gardiner	X		
Kurt Kelly	X		
Rick Kriseman	X		
Seth McKeel	X		
Stephen Precourt	X		
William Snyder	X		
Shelley Vana	X		
Totals:	14	0	0

Committee meeting was reported out: Wednesday, February 06, 2008 3:52:18PM

COMMITTEE MEETING REPORT

Committee on Energy

2/6/2008 8:00:00AM

Location: Morris Hall (17 HOB)

Other Business Appearance:

Renewable and Alternative Energy Sources

Michael Ohlsen, Project Manager (State Employee) (At Request Of Chair) - Information Only
Florida Energy Office, Department of Environmental Protection
2600 Blairstone Road MS-19
Tallahassee FL 32399-2400
Phone: (850) 245-8279

Renewable and Alternative Energy Sources

The Honorable Claudine Schneider, President (At Request Of Chair) - Information Only
Solar Alliance
3395 Sentinel Drive
Boulder CO 80301
Phone: (303) 413-0182

Renewable and Alternative Energy Sources

Yann Brandt, Vice President (At Request Of Chair) - Information Only
Advanced Green Technologies
2100 NW 21st Avenue
Ft. Lauderdale FL 33311
Phone: (954) 735-2641

Renewable and Alternative Energy Sources

Cindi Marsiglio, Senior Manager Public Affairs (Lobbyist) (At Request Of Chair) - Information Only
Wal-Mart Stores, Inc.
3551 Blairstone Road
Tallahassee FL 32301
Phone: (850) 298-4219

Renewable and Alternative Energy Sources

Glenn Farris, President & CEO - Information Only
Biomass Gas & Electric of Florida, LLC
3500 Parkway Lane Suite 440
Norcross GA 30092
Phone: (770) 662-0256

Renewable and Alternative Energy Sources

Bruce Parker, President/CEO (At Request Of Chair) - Information Only
National Solid Wastes Management Association
4301 Connecticut Avenue, NW
Washington DC 20008

Renewable and Alternative Energy Sources

Sam Levin, President - Information Only
National Solid Wastes Management Association
531 Versailles Drive #202
Maitland FL 32751
Phone: (407) 475-9163

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Renewable and Alternative Energy Sources

James J. Oskowis, General Manager, Tallahassee Water Utility (At Request Of Chair) - Information Only

Florida Water Environment Association Utility Council
300 South Adams
Tallahassee FL 32301
Phone: (850) 891-6185

Renewable and Alternative Energy Sources

Eric Silagy, Vice President (At Request Of Chair) - Information Only

Florida Power & Light Company
700 Universe Boulevard
Juno Beach FL 33408
Phone: (561) 304-5206

Renewable and Alternative Energy Sources

Michael Dobson, President (Lobbyist) (At Request Of Chair) - Information Only

Florida Renewable Energy Producers Association
522 East Park Suite 101
Tallahassee FL 32301
Phone: (850) 222-0441

Renewable and Alternative Energy Sources

Stuart Lamb, Owner (At Request Of Chair) - Information Only

Cookes Environmental
3100 SE Waaler Street
Stuart FL 34997
Phone: (772) 781-4300

Renewable and Alternative Energy Sources

Bob Krasowski, Project Coordinator (At Request Of Chair) - Information Only

Florida Alliance for a Clean Environment
1086 Michigan Avenue
Naples FL 34103
Phone: (239) 963-6285

Renewable and Alternative Energy Sources

John Masiello, Director (At Request Of Chair) - Information Only

DSM & Alternative Energy Strategy, Progress Energy
106 E. College Avenue Suite 800
Tallahassee FL 32301
Phone: (850) 222-8738

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Committee on Energy

2/6/2008 8:00:00AM

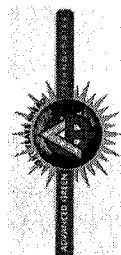
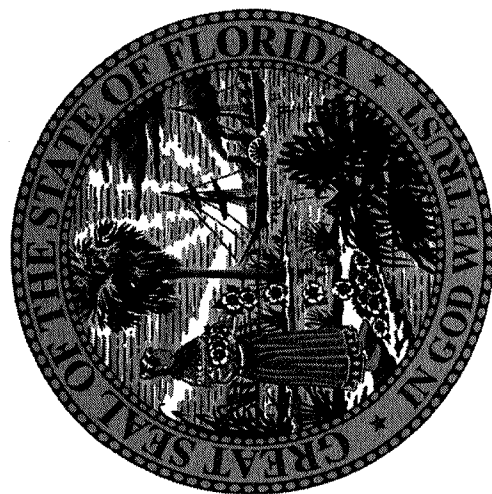
Location: Morris Hall (17 HOB)

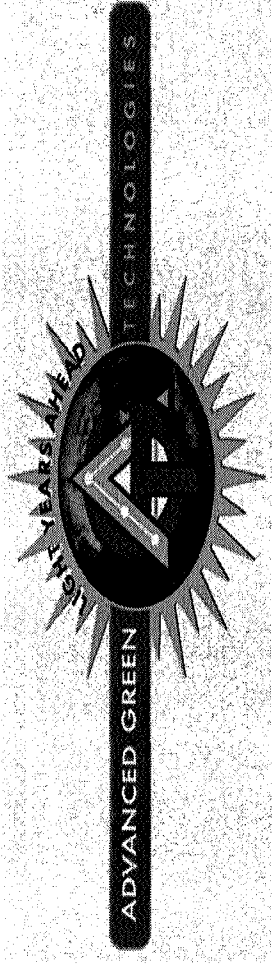
Summary: No Bills Considered

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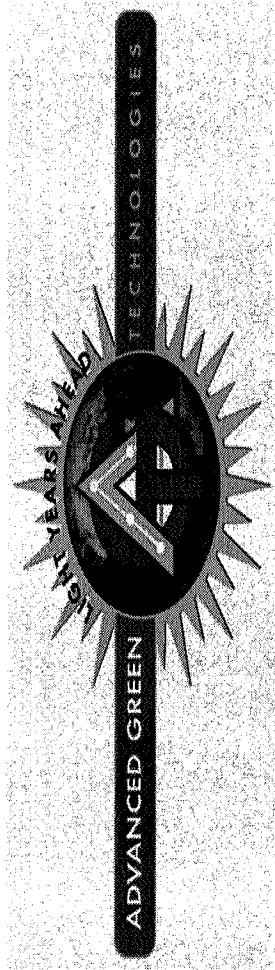
Renewable Energy Solutions For The State of Florida





- **Reduce dependence on foreign oil**
- **Increase fuel diversity**
- **Establish job growth / economic growth**





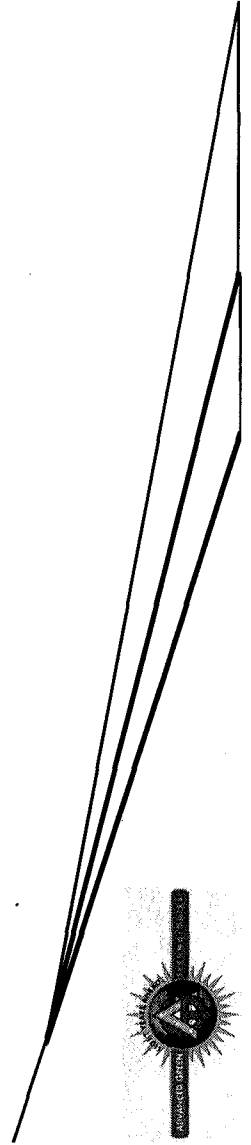
- Reduce dependence on foreign oil

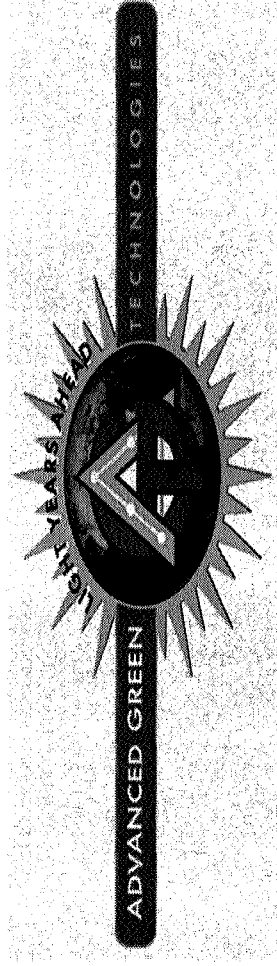
2006 – 25,706,000 barrels of oil (FPSC Stats. FL utility ind.)





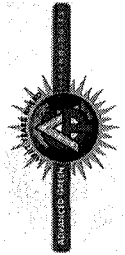
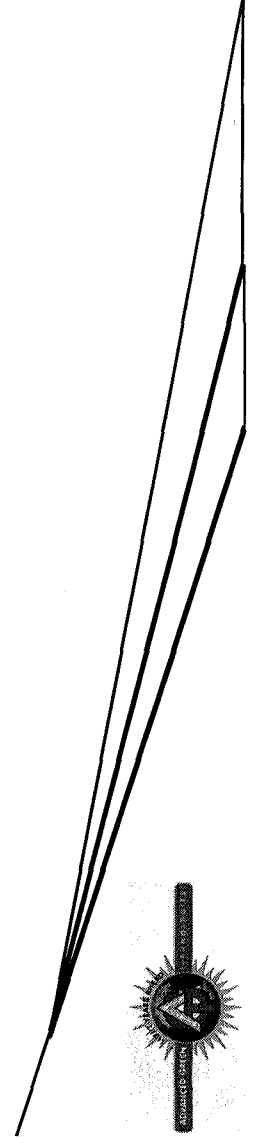
- Increase fuel diversity
addition of distributed generation

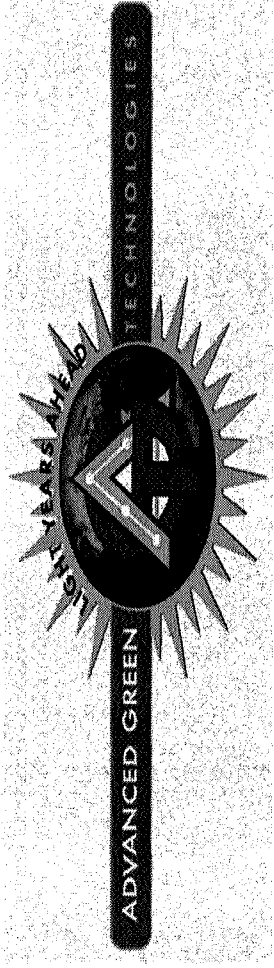




- Establish job growth / economic growth

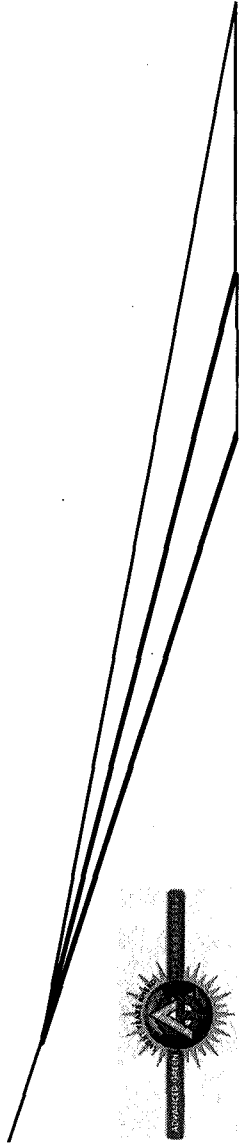
**Enterprise Florida Study
New Job Skills for Construction Workers**





- Solar Technology

Advanced Technology
Florida's unique climate





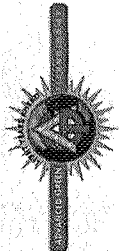
- Government Policy

Statewide RPS

4% Carbon Free energy set aside

Carbon Free incentive program







***A FLORIDA RENEWABLE ENERGY
RESOURCE MAP: UNDERSTANDING
FLORIDA'S BIOMASS POTENTIAL***

“Florida Renewable Energy Producers Association (FREPA)”

Presented by Michael Dobson, President of FREPA

ABOUT FREPA

Florida Renewable Energy Producers Association (FREPA) is organized as a not-for profit organization, dedicated to advocating on behalf of all current and potential renewable energy producers with an interest in project development in Florida. FREPA's main goal is to advocate for policy and fiscal incentives, a favorable regulatory environment, project funding, and programs that promote research and spur growth in the use of renewable energy sources in Florida. We provide current information about the energy industry, public policy and research relating to renewable energy in Florida and the nation.



Partner in project:
**The National Renewable Energy
Laboratory (NREL)**

The National Renewable Energy Laboratory (NREL) is the nation's primary laboratory for renewable energy and energy efficiency research and development (R&D).

NREL's mission and strategy are focused on advancing the U.S. Department of Energy's and our nation's energy goals. The laboratory's scientists and researchers support critical market objectives to accelerate research from scientific innovations to market-viable alternative energy solutions. At the core of this strategic direction are NREL's research and technology development areas.

These areas span from understanding renewable resources for energy, to the conversion of these resources to renewable electricity and fuels, and ultimately to the use of renewable electricity and fuels in homes, commercial buildings, and vehicles. The laboratory thereby directly contributes to our nation's goal for finding new renewable ways to power our homes, businesses, and cars.



Mapping Expertise

Analysis expertise

- Geospatial modeling and analysis using GIS
- Renewable resource assessments
- Infrastructure analysis
- Demographic analysis

Primary research interests

- Biomass resource assessment and analysis
- Global natural resources and population dynamics
- Alternative transportation fuels infrastructure

HOW DID WE GET HERE?

RPS = KEY DRIVER FOR RENEWABLE ENERGY DEVELOPMENT

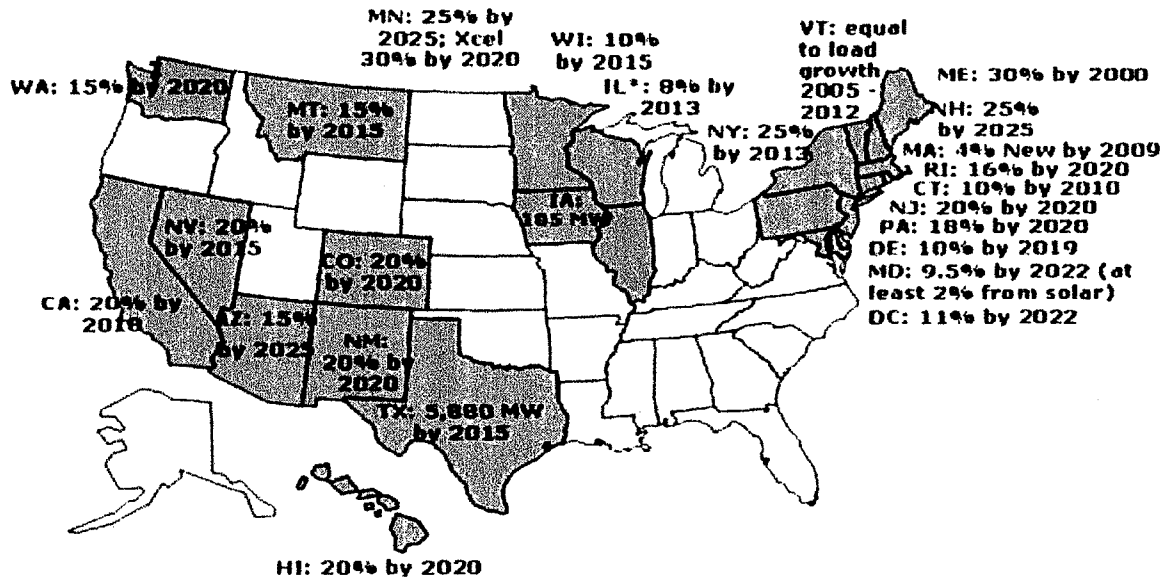
More and more renewable energy experts are recognizing that renewable electricity standards are a key driver of new renewable energy in the United States.

A renewable electricity standard—also known as a renewable portfolio standard or RPS—is a cost-effective, market-based policy that requires electric utilities to gradually increase their use of renewable energy resources such as wind, solar, and bioenergy. Currently, 23 states and the District of Columbia have enacted renewable standards.

This is an opportunity for Florida to be a leader of all southeastern states.

Renewable Portfolio Standards

EVERYONE ELSE AND THEN, THERE IS FLORIDA



* IL implements its RPS through voluntary utility commitments

THE QUESTION

What percentage of Florida's energy production could be renewable?



A QUESTION OF RESOURCES AND DEVELOPMENT

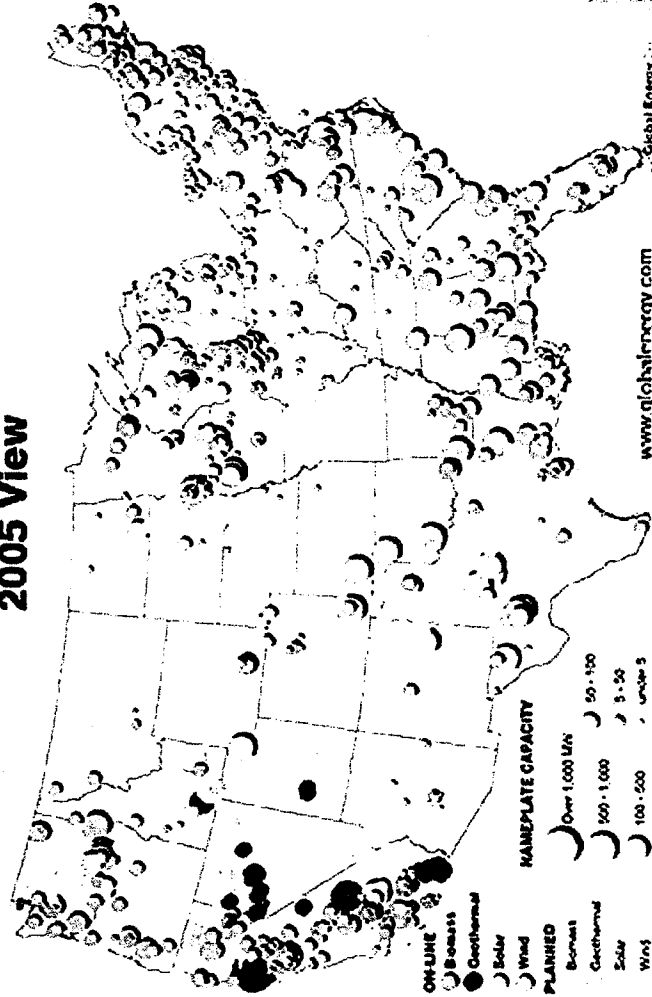
- The governors executive order proposes a RPS standard of 20%-- question can Florida meet such a goal?
- Does Florida have available homegrown resources that are plentiful enough to reach the governors goal?
- What are Florida's renewable resources?
- What is Florida's track record in renewable energy projects?
- What has contributed to Florida's track record with regards to renewable energy projects being realized?
- What will need to change in the regulatory environment and business attitudes that will make Florida an attractive place for renewable energy development?



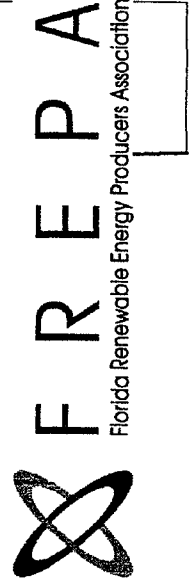
IMMEDIATE OPPORTUNITIES IN FLORIDA/THE HERE AND NOW

Renewable Generation, 2005

2005 View



www.globalenergy.com
IREEL National Renewable Energy Laboratory
Global Energy



REALITY BASED RESOURCES USING PROVEN TECHNOLOGY

Biomass in all its forms, due to our robust
agricultural community

Develop and renewable resource map that provides expected available
resources 20 years out

Provide reliable incentives that investors can count on to help make the
economics of a project work

Etc.

RENEWABLE ENERGY RESOURCE MAP

What is a renewable energy resource map?

- GIS mapping which identifies available biomass resources in the state of Florida
- Provides for a perpetual map that constantly provides updates of available resources
- A resource inventory count that is available for renewable energy producers interested in the Florida renewable energy industry in hopes of pursuing biomass production
- Utilities who may be faced with committing to a percentage of their portfolio being renewable and needing to know what percent is practical

COST OF DOING BUSINESS AS USUAL/ECONOMIC IMPACT

Cost and accessibility of renewable energy must be tempered by the fact that:

- Costs for providing electricity in Florida based on natural gas, coal or fossil fuels will continue to increase due to our growing economy and population.
- An increase demand for power, fossil fuel prices and the costs associated with preserving our precious natural resources requires us to diversify Florida's energy portfolio.



F R E P A
Florida Renewable Energy Producers Association

STATES INTEREST IN RENEWABLE ENERGY RESOURCE MAPPING ?

FACT: the pursuit of renewable energy, alternative energy, clean energy sources, carbon sequestration are upon us and will be a way of life for the future of our state and our nation

THEREFORE: It is in the best interest of the state that the renewable energy industry is sustainable. That is key largely because of the economic benefits it will provide the state long-term and the positive quality of life attributes future Floridians will gain through this new industry.



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Biomass Resource Availability in Florida

Agricultural residues

- Plant based (crop residues)
- Animal based (methane emissions from manure management)

Wood residues

- Forest residues
- Primary mill residues
- Secondary mill residues
- Urban wood residues

Municipal Discards

- Methane emissions from landfills
- Methane emissions from domestic wastewater treatment

Dedicated Energy Crops Case Studies

- Conservation Reserve Program (CRP) lands
- Abandoned mine lands

National Renewable Energy Lab Objective In Resource Mapping

- The objective is to estimate the biomass resources available in the United States and map the results. To accomplish this objective, biomass feedstock data are analyzed both statistically and graphically using geographic information systems (GIS). A GIS is a computer-based information system used to create, manipulate, and analyze geographic information, allowing us to visualize relationships, patterns, or trends that are not possible to see with traditional charts, graphs, and spreadsheets.



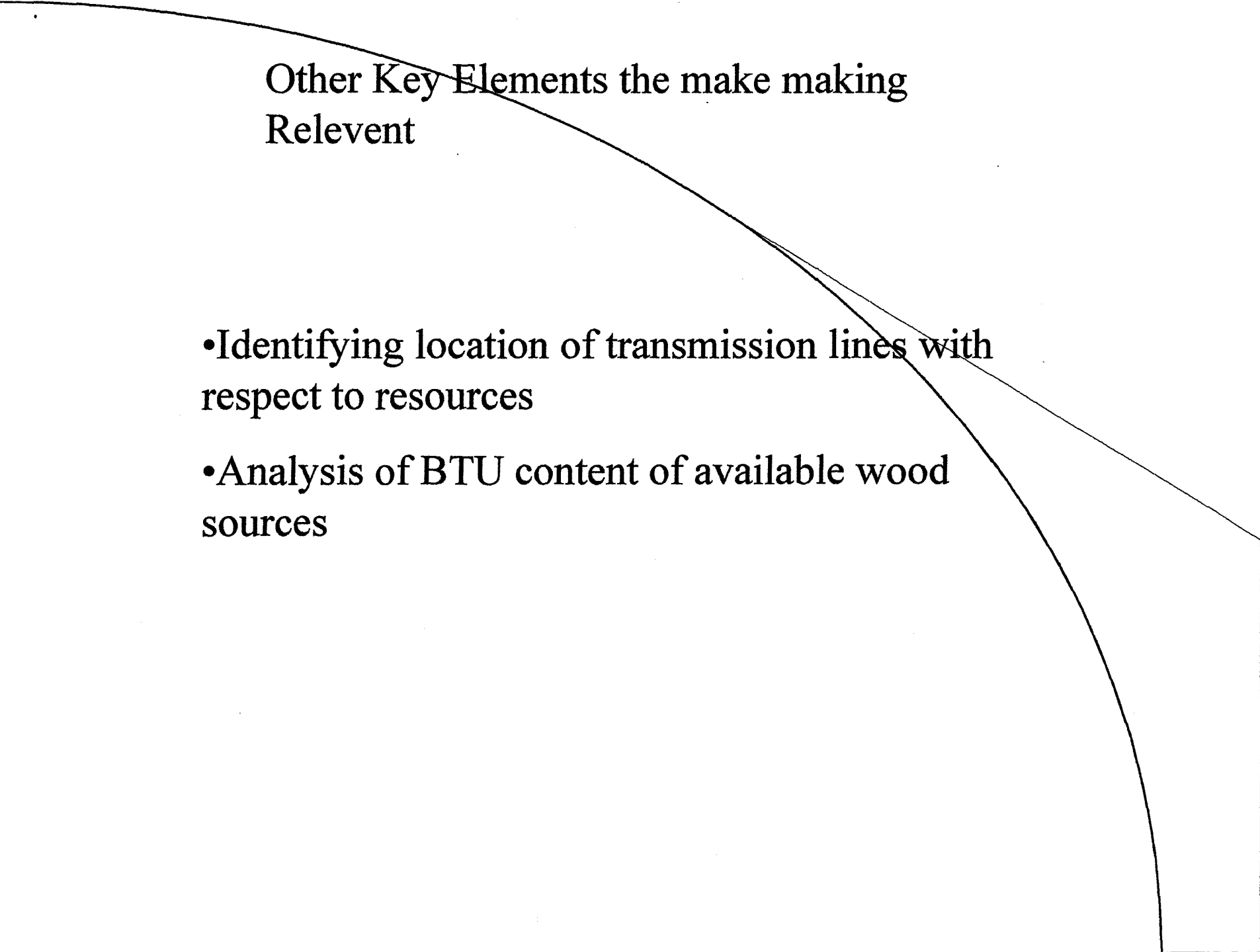
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How is Data Reported/Updated?

- Development of interactive website utilizing existing web mapping tools
- Data is updated through change detection methods quarterly
- Amount of Carbon Sequestration and potential Carbon Sequestration may be determined through this process



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Other Key Elements the make making Relevant

- Identifying location of transmission lines with respect to resources
- Analysis of BTU content of available wood sources

IT'S THE ECONOMICS !

“Create the right business climate so that the economics can work with regards to renewable energy development projects so that there are not losers, then you will see renewable energy flourish in Florida” Lets the market work!!



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Florida Renewable Energy Producers Association

**Thank You For Your Time
Today!**

Questions?

