

# **Unleashing Florida's Energy Potential**

***Creating Jobs Quickly and Building a Foundation  
for Florida's Future***

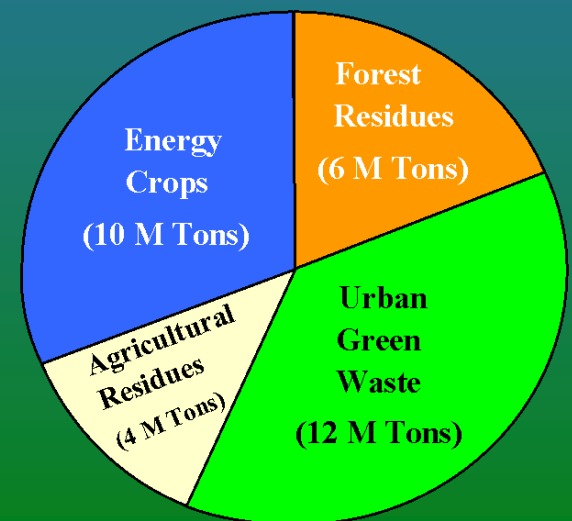
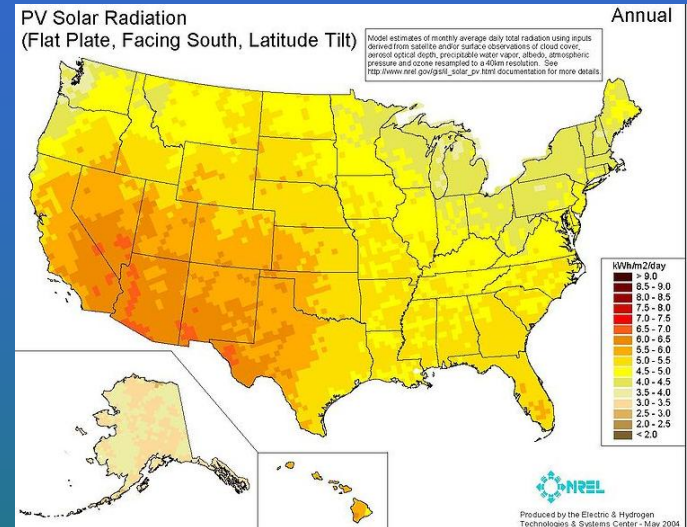
***Collaborative effort of the Florida Energy Systems Consortium and Florida Power and Light***

# Unleashing Florida's Energy Potential

- A market-driven expansion of Florida's renewable energy would encourage billions of dollars in new, private investment
- Florida's energy companies are poised to invest hundreds of millions of dollars in renewable energy and hire thousands of workers
- Floridians strongly support renewable energy
- Florida's climate and geography favor large-scale solar and biomass energy development
- Florida's universities are creating the enabling technologies for current and future renewable energy platforms and new industries

# Abundant Resources

- Florida has potential for high solar penetration and export
  - PV industry is the fastest growing in world for 6 years
  - Clean, free fuel, mitigates risk
- Florida has 7% of U.S. biomass resources
  - 9.5 million tons of biomass available each year <sup>(2)</sup>
  - Potential for energy generation of 1,900 MW



# Energy Companies are Poised to Invest

- **Regulatory cap is the only barrier to hundreds of megawatts of new generating capacity**
  - **Public Service Commission approved 110 MW in 2008**
    - **Florida Power & Light invested \$600 million in two years and created 1,500 direct jobs quickly**
    - **FPL has another 500 MW identified for development**
- **700 MW of new renewable generation could expand Florida's economic activity by \$8.1 billion and add 40,000 new jobs <sup>(1)</sup>**
- **In addition to construction jobs, solar energy expansion would bring thousands of permanent, high-wage manufacturing, assembly, R&D and other jobs**
- **Ag biomass jobs will stay in Florida and investment in life sciences creates biorefinery, design, and R&D jobs**

# Florida Energy Systems Consortium (FESC)

## Universities Addressing Florida's Energy Needs

- **Florida universities are national leaders in next-generation solar and biomass technologies**
  - Thin-film photovoltaics that are lowest cost and can be integrated into building materials
  - Biofuels from organic waste, energy crops and algae
  - Batteries
- **University technologies result in spin-off companies**
  - Last year, 7 business start-ups in Florida, 16 new technologies were licensed
- **Universities leverage state investment for federal and private funding and create new jobs**
  - \$38 million investment in FESC leveraged \$84.4 million federal and private funding during last fiscal year

# Regulatory Change is Needed

- **Government commitment to renewable energy creates confidence in the market to attract industry to Florida**
  - **Need regulatory authority for energy companies to build more renewable energy**
  - **An increase in the regulatory cap gives confidence in the market**
    - **The market must be sustainable over time to create an environment for manufacturing jobs**
    - **An estimated 40,000 new jobs would be created by 700MW**
- **With a sustainable market for renewables, Florida is poised to be the gateway to other markets, including the SE U.S., Caribbean and beyond**

# A New Energy Economy

- **Energy companies are poised to invest in new solar and biomass generation**
  - **FPL has 500 MW of solar ready to go**
  - **Progress Energy is pursuing biomass opportunities**
  - **No government subsidies or grants required**
- **If the market is sustainable over time, new manufacturing and assembly jobs will come**
- **Universities will develop new renewable technologies and spin off companies for commercialization**