

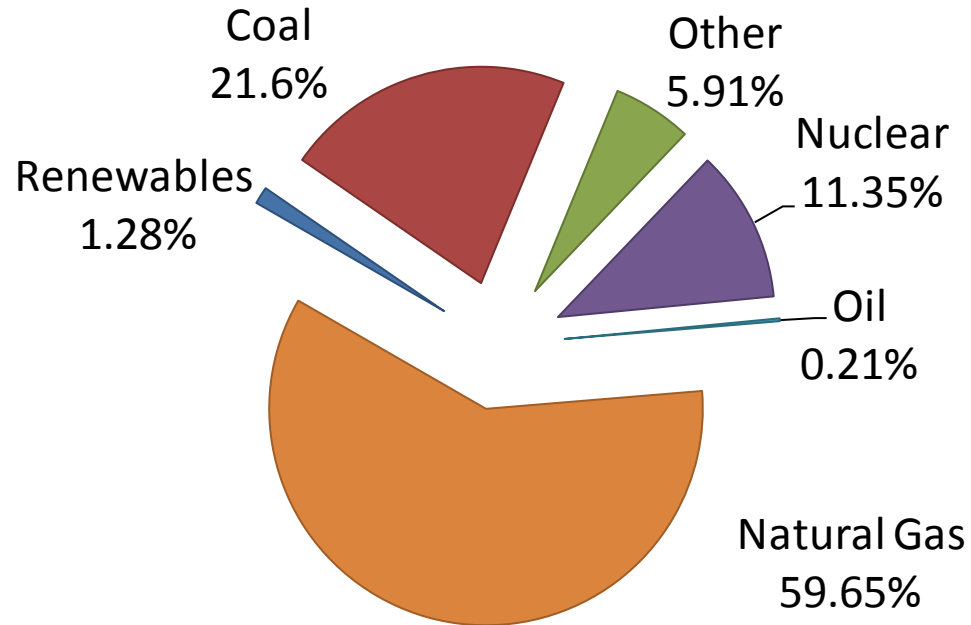
Florida Renewable Energy Projects: Permitting Green Energy Resources

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Hopping Green & Sams

2013 Florida Electricity by Fuel Type



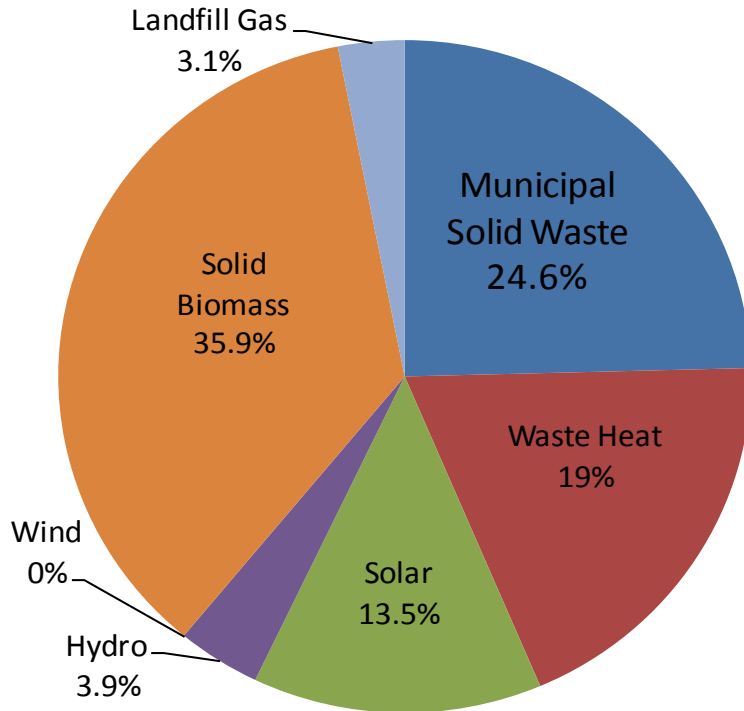
Growth in Fla. Renewable Capacity

	Renewable Resource Tracking – TYSP Values						
	2014	2013	2012	2011	2010	2009	2008
MW	1,617*	1,427	1,400	1,282	1,220	1,171	1,097
% Change	14.0%	1.9%	9.2%	5.1%	4.2%	6.7%	

*Florida also had 6,697 customer-owned renewable energy systems installed and using net metering by the end of 2013 or 63 MW, an increase in capacity of 50 percent from 2012; only 3MW in 2008.

2014 Existing Renewable Resource Capacity

(of ~57,000 MW Total Capacity)

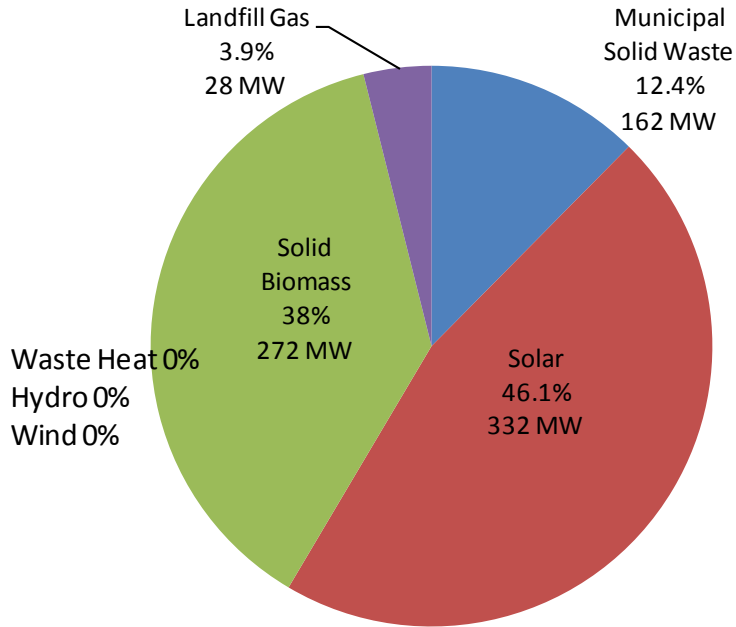


**Installed:
1,617 MW Total
(490 MW firm)
(80% NUG)**

- Municipal Solid Waste
- Waste Heat
- Solar
- Hydro
- Wind
- Solid Biomass
- Landfill Gas

2023 Additional Renewable Resource Capacity

(~12,570 MW of new capacity)

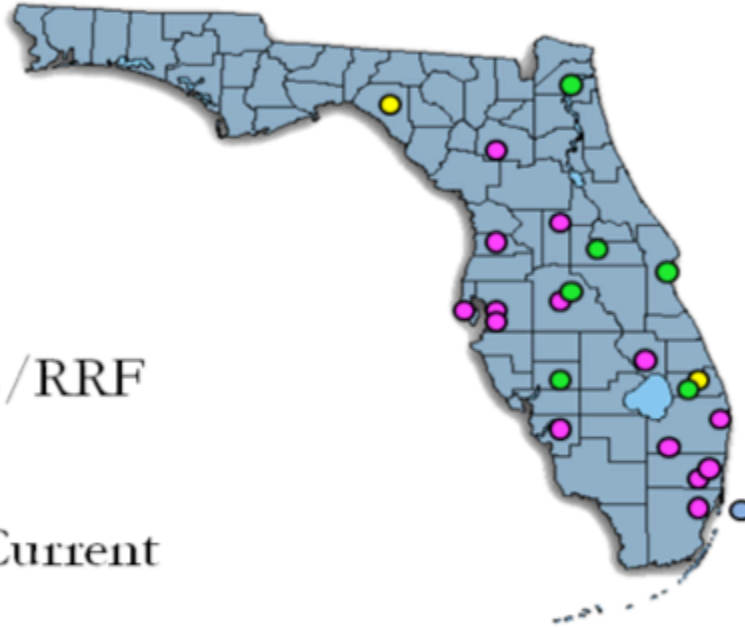


**Additional:
722 MW Total
(361 MW Firm)**

- Municipal Solid Waste
- Solar
- Solid Biomass
- Landfill Gas

Florida Renewable Energy Projects

- Biofuel
- Biomass/RRF
- Solar
- Ocean Current



Biomass

Electricity and process steam production

- Wood Resource
 - Sustainable wood supply
- Bagasse



Siting Energy Facilities: Common Environmental Issues

- Land Use and Zoning
- Air Emissions
- Water Supply and Disposal
- Waste Disposal
- Wetlands and Wildlife

Land Use and Zoning

- Biomass Facilities
- Solar Projects

Air Emissions

- Air Construction
Permits/PSD review

Water Supply and Disposal

- Cooling and process water
 - Use of Reclaimed Water for cooling
- Cooling Water and Process Wastewater Disposal

Waste Disposal

- Biomass

Wetlands and Wildlife

- Wetlands
 - Permitting
 - Avoidance/Mitigation
- Wildlife Impacts