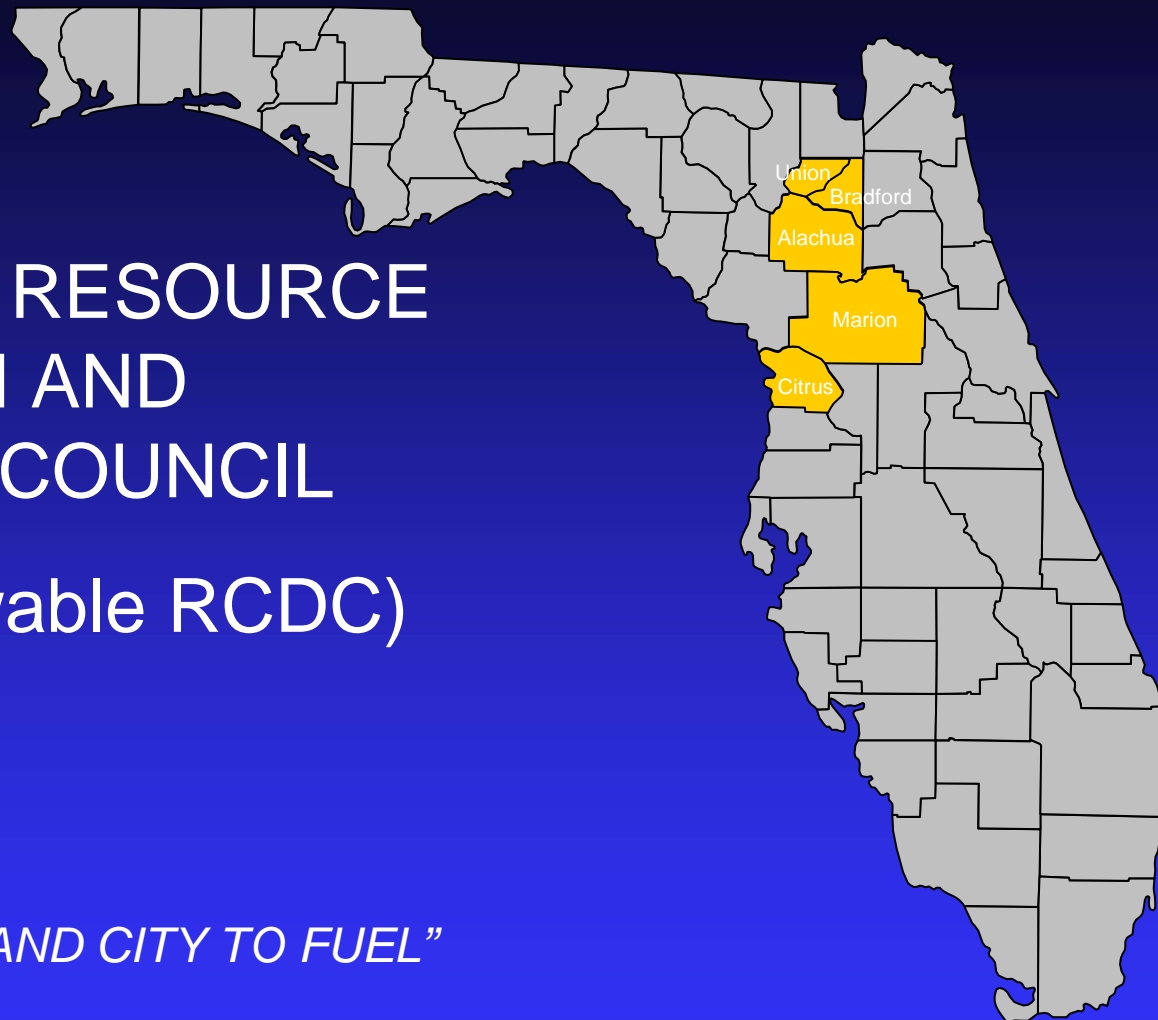


What is the RC&D Council system all about?

- **RC&D = Resource Conservation and Development**
- **Begun in 1964 by USDA and re-authorized in the 2002 Farm Bill.**
- **380+ Councils in the USA covering 85% of counties serving 77% of US population.**
- **13 Councils in FL: 7 funded, 6 unfunded. (average funding: \$120 K/yr. /council)**

FL RENEWABLE RESOURCE CONSERVATION AND DEVELOPMENT COUNCIL (FL Renewable RCDC)



“FARM AND CITY TO FUEL”

FL Renewable RC&D Council

Swallow-tailed kite: *Elanoides forficatus*



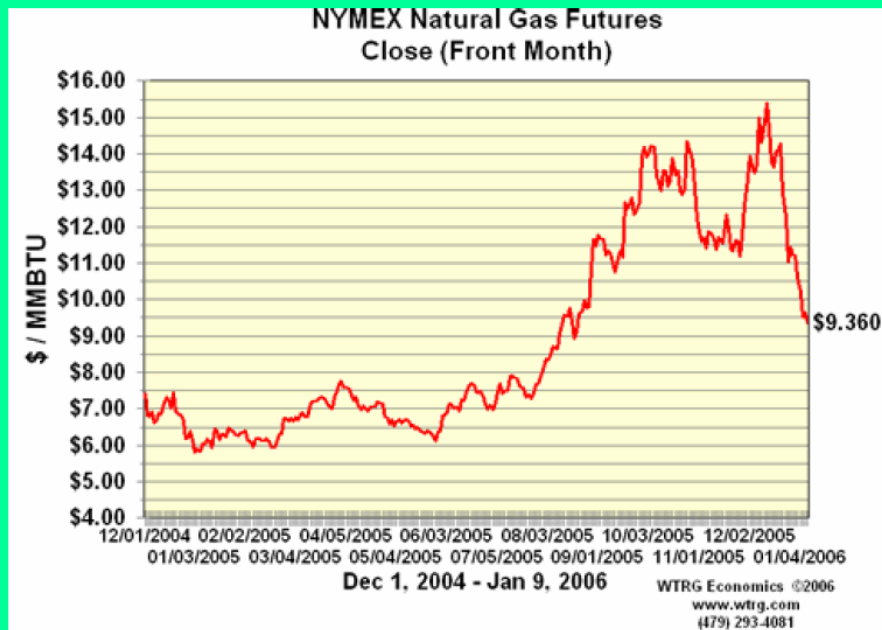
RC&D Council Purpose (nationally)

“Encourage and improve the capability of volunteer local and elected civic leaders to plan and carry out projects for conservation and community development.” – **Farm Bill 2002**

**(FL Renewable RCDC focuses on
Renewable Energy)**

“We are concerned about the price of Natural Gas” –
Ed Regan, Strategic Planning Dept., GRU, City of
Gainesville, Fall, 2003.

Every city made its own gas until after WW II when cheap natural gas (NG) became widely available. Natural Gas cost \$1-2 /MMBtu, when from 1985-2000 almost all new electrical generating plant were built as NGCC plants. In 2004 it cost over \$5/MMBtu. Today it costs about \$10 /MMBtu. Has the Gasification Age returned?



FL Renewable RC&D Council Approach

Integrate Resources with Technologies

- **Inventory the Various Waste Streams in 5 County Area**
- **Define Business Potential From Waste and Solar using expertise from our various institutions, public and private.**
- **Match business and government capabilities with projects.**
- **Facilitate Implementation through USDA funding using Ocala and Gainesville as “twin cores.”**

Five-Year Work Plan Projects

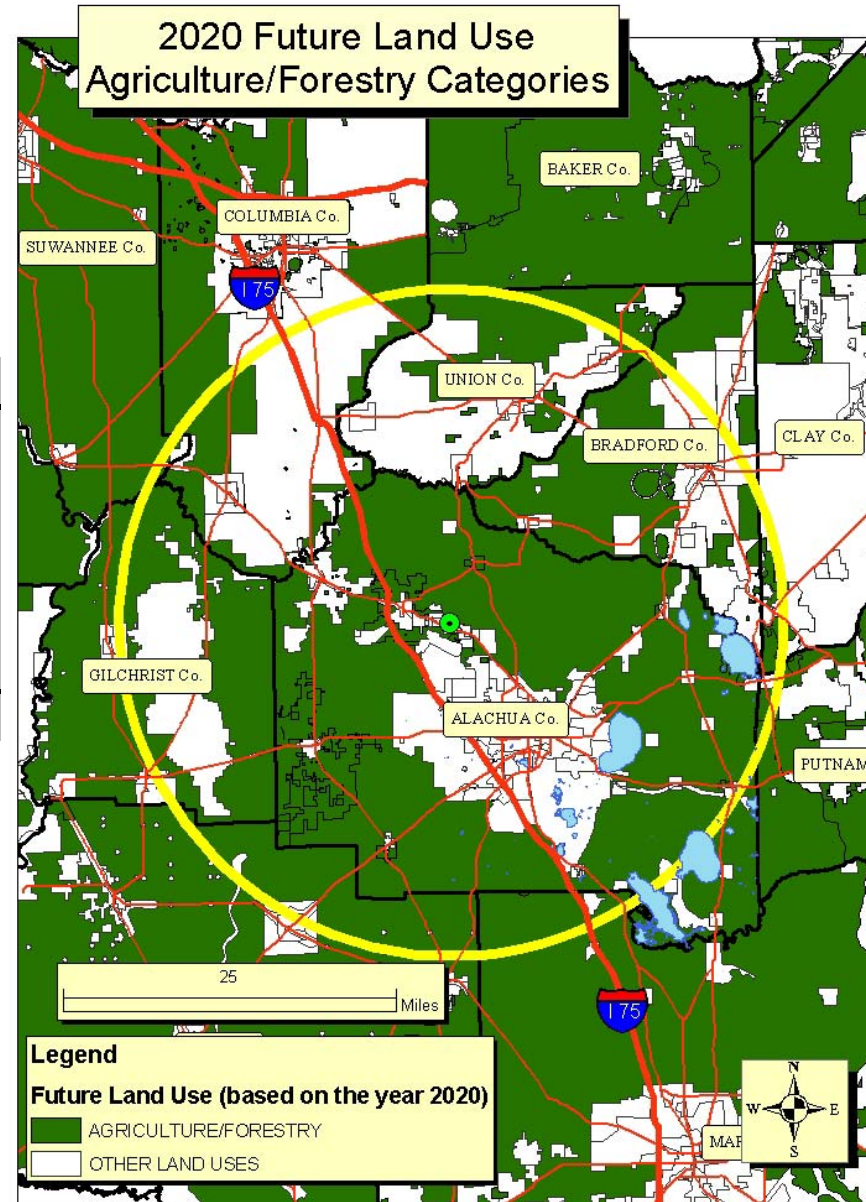
- **Supply Coop: Wood Waste to Electricity and Fuel for GRU biomass plant.**
- **On-farm gasification of horse bedding waste in Marion Co.**
- **Farming system design in Polk Co. mine lands.**
- **State-owned 3 MW steam to power plant using wood in Union Co.**
- **Energy Conservation throughout with EPA's CHP Partnership Program.**

Union Co. STEAM Plant (boiler #1)



Deerhaven 25-mile Radius Land Use Data Summary: Projected to the Year 2020

Land Use Type	Acres	Percent of Total
AGRICULTURE AND FORESTRY	797,750	64%
PRESERVE	100,382	8%
COMMERCIAL/INDUSTRIAL	20,173	2%
ESTATE	210,501	17%
MULTI-FAMILY	4,780	0%
SINGLE FAMILY	122,216	10%
	1,255,801	100%



Proposed Action Plan: Make waste a transition fuel to the future:

- With UF's School of Forestry Outreach Program data, bring educational programs to County and City Governments.
- Help government DEFINE the assumptions and get ahead of the curve.
- Consider proposing "Energy Elements" in Comp Plans.
- Look at waste as a local energy resource on the way to renewing communities.

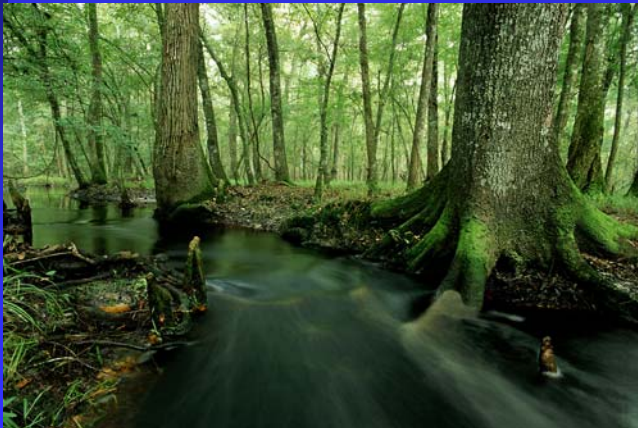
How does the public understand
“We’d like to use trees for energy”?

Results from Interviews

Environmental Impacts

Positive

- Global warming
- No mercury emissions
- Cleaner than other power plants
- No chance for meltdown



Negative

- Global warming
- Smoke
- Fuel storage
- Destruction of landscape
- Cutting valuable forest
- Traffic
- Noise
- Water quality problems

The long-term goal: Long Leaf Pine Restoration



Thicket Forestry in Marion County





Waste Wood Yard in Marion Co.



Land Clearing Wood Debris Landfill in Alachua Co.



Benefits by Supporting Florida Renewable RC&D Council

- **New Markets for Regional Utilities**
- **Target Investment in Florida Businesses**
- **Provide Stable Energy Supplies at Predictable Cost**
- **Stimulate Economic Development**
- **Create Well Paid Local Jobs**
- **Support Rural Communities**

Clean Fuel Florida Advisory Board Recommendations

Energy 2020 Commission Findings