

# FFA ENERGY SUMMIT

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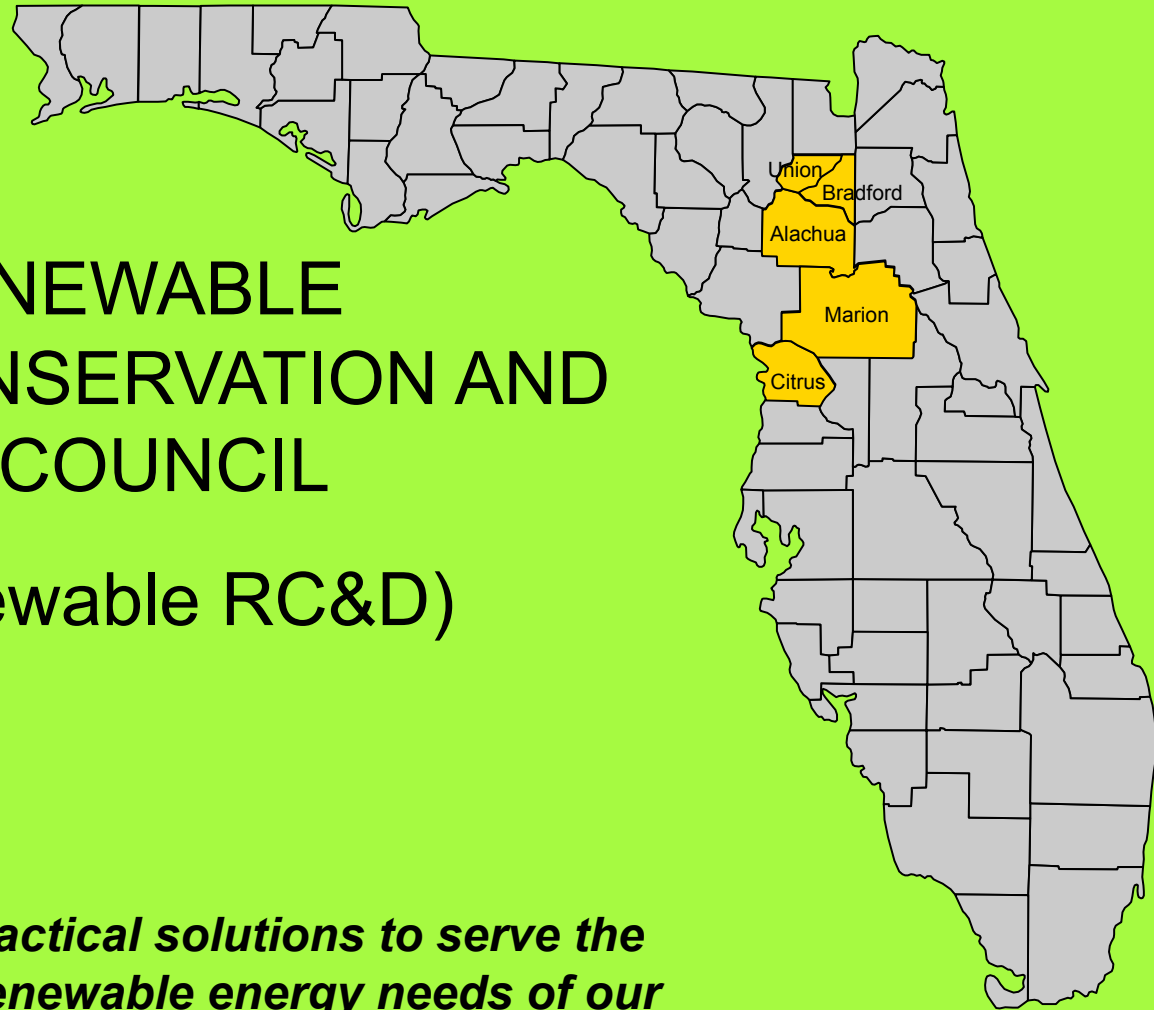
NC FL Renewable RC&D Council

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# NC FLORIDA RENEWABLE RESOURCE CONSERVATION AND DEVELOPMENT COUNCIL

(NCFL Renewable RC&D)



***“We represent practical solutions to serve the clean water and renewable energy needs of our fellow citizens through conservation and alternatives to fossil fuels in balancing creation’s care.”***

# BIO-ENERGY NETWORK

## Harvesting Renewable Energy for FL

Pictured is Don Post, retired UF Forestry and NCFL Renewable RC&D Council's first Chairman (2005-2008)

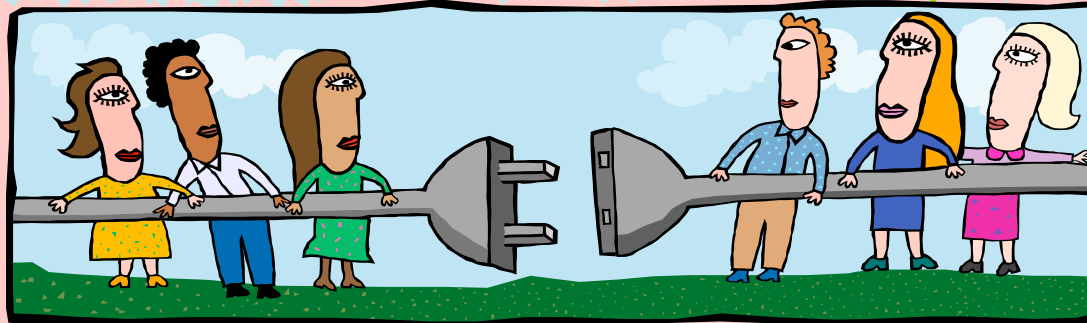


# COUNCIL ENERGY PROJECTS

- ✓ WOOD GASIFICATION
- ✓ WOOD-TO-ENERGY OUTREACH
- ✓ via MARKETING COOPS
- ✓ and INNOVATIVE MACHINERY LIKE THE JD BUNDLER, SUPER TRAC AND THE CAT BIOHARVESTER

**WE CAN  
CONNECT  
BUSINESSES and  
INSTITUTIONS**

# There's A Need to Find New Ways to Build the Rural Economy



# Public Perceptions and Acceptance of Woody Biomass for Energy Production

Martha C. Monroe

Richard Plate

University of Florida

March 29, 2006

SAF – SFRC Spring Symposium



# BELIEF WE CAN CHANGE IN

- ✓ 2 RC&D COUNCILS in N FL ARE CAPABLE OF CONNECTING U.S.
- ✓ WE SIMPLY NEED TO COME TOGETHER and
- ✓ DEVELOP PROPOSALS FOR COOPERATIVE DEVELOPMENT
- ✓ INCLUDING SMALL CHP UNITS OF 20-50 MW USING WOODY BIOMASS

# FUEL VALUE CALCULATIONS

1. IN GAINESVILLE, FL, we now pay \$74/ton. That does not include transportation. \$25/ton is transport 1,000 miles.
3. This coal contains 12,500-12,900 Btu/lb.
5. 12,500 Btu/lb X 2000 lbs/ton = \$4/MMBtu  
\$100/ton
3. This is compliance coal 1.2 lbs of SO<sub>2</sub>/MMBtu. Expected for January is \$65/ton for noncompliance. Plus transport.

# FUEL VALUE CALCULATOR

Using the wheel, place 4.00 next to cost.

- Follow down to “semi-dry wood” at 30% MC, the value of this fuel is \$35.80/ton.
- Further down, one sees that this corresponds, “per typical boiler efficiency” to a \$0.013 electricity cost.

# TAKE-HOME MESSAGE

- DON'T GET GREEDY!
- DRY YOUR POWDER BEFORE FIRING!
- GRIND YOUR WOOD AT THE PLANT AT NIGHT IF POSSIBLE!
- ORGANIZE A MARKETING COOP THROUGH YOUR LOCAL RC&D COUNCIL

**THANKS FOR YOUR  
ATTENTION!**

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