

# RECOMMENDATIONS FOR DEVELOPING A CONCEPTUAL DESIGN

Presentation to the  
Gainesville City Commission  
January 31, 2005

# Recommendations

The City Commission approve the following five inter-related elements of a long term plan to meet Gainesville's future electrical supply needs in order to allow staff to develop conceptual designs, as follows:

# Recommendations

(Continued)

1. Meet an additional 10% of Gainesville's electrical energy requirements from renewable energy and conservation by 2012 over and above the 5% achieved to date;

# Recommendations

(Continued)

2. Institute the proposed Greenhouse Gas Fund to support local projects to reduce carbon dioxide, including a technical advisory committee reporting to the City Commission;

# Recommendations

(Continued)

3. Modify existing facilities at the Deerhaven plant site to minimize the emission of SO<sub>2</sub>, NO<sub>x</sub>, and Particulates, and to meet the Maximum Available Control Technology (MACT) standards for mercury;

# Recommendations

(Continued)

4. Add air quality monitoring to better establish baseline ambient air quality conditions related to power generation;

# Recommendations

(Continued)

5. Add base load generation capacity designed to:
  - i. Meet Best Available Control Technology (BACT) for regulated pollutants and MACT standards for mercury.
  - ii. Utilize a mix of relatively abundant solid fuels including coal, petroleum coke, and the equivalent of at least 30 MW of biomass in order to meet the goal in recommendation 1.

# Recommendations

(Recommendation 5 Continued)

- iii. Produce electricity at a cost expected to be competitive in the retail and wholesale market.
- iv. Result in a net improvement of ambient air quality in combination with recommendation 3.
- v. Maintain adequate and required capacity reserve margins.
- vi. Minimize the effects on surface and ground water supplies.



# The Proposed Plan Provides the Following Benefits

- Significantly reduces regulated air emissions and mercury
- Increases energy efficiency and renewable energy commitment to the highest in the state
- Provides a way to implement projects that reduce carbon dioxide
- Ensures a reliable and affordable electric supply
- Adds new jobs to our community

# Next Steps

1. Request Proposals for Engineering and Technical Consultants
2. Request Commission Approval of Contracts and Budget
3. Develop Conceptual Designs
4. Bid Conceptual Designs Against Market and Finalize Plan
  - Consider Alternative Technologies
  - Consider Creative Risk Management and Performance Idea

# Next Steps

(Continued)

5. Obtain a “Determination of Need” from the Florida Public Service Commission
6. Obtain “Site Certification” from the Governor and Cabinet
  - Extensive Public Participation including Alachua County
7. Obtain Federal and State Environmental Permits
  - Extensive Public Participation

Thank You