

ATTACHMENT A

GAINESVILLE REGIONAL UTILITIES

2008 TEN-YEAR SITE PLAN



Submitted to:

The Florida Public Service Commission

April 2008

a Biomass Seminar for a joint meeting of the Gainesville City Commission and the Alachua County Commission. The GEAC has strongly supported the EPA's Energy Star program, and has helped GRU earn EPA's 1998 Utility Ally of the Year award. GEAC contributed to the development of a Green Builder program for existing multi-family dwellings as a long-range load reduction strategy. Multi-family dwellings represent approximately 35% of GRU's total residential load. GEAC has also supported GRU's current IRP through their sponsorship of community workshops and review of the IRP.

3.4.5 Supply Side Programs

Prior to the addition of Deerhaven Unit 2 in 1982, the System was relying on oil and natural gas for over 90% of native load energy requirements. In 2007, oil-fired generation comprised 1.6% of total net generation, natural gas-fired generation contributed 26.2%, nuclear fuel contributed 4.6%, and coal-fired generation provided 67.6% of total net generation. Deerhaven 2 is also contributing to reduced oil use by other utilities by offering coal-generated energy on the Florida energy market. The PV system at the System Control Center provides slightly more than 10 kilowatts of capacity at solar noon on clear days. Finally, the landfill gas to energy (LFGTE) project is capable of providing 1.3 MW of renewable energy on a continuous basis.

The System has several programs to improve the adequacy and reliability of the transmission and distribution systems, which will also result in decreased energy losses. These include the installation of distribution capacitors, purchase of high-efficiency distribution transformers, and the reconductoring of the feeder system.

Transformers

GRU has been purchasing overhead and underground transformers with a higher efficiency than the NEMA TP-1 Standard for the past 18 years. Higher efficiency means less kW losses or power lost due the design of the transformer. Since 1988, there have been 15,903 high-efficiency transformers installed on GRU's distribution system.