

**GRU SOUTH ENERGY CENTER, FLORIDA
GAINESVILLE REGIONAL UTILITIES
BURNS & MCDONNELL**



PARTNER PROFILE

- *Burns & McDonnell is regionally and internationally recognized for comprehensive range of professional services including, engineering, architecture, construction, program management, information technology, master planning, facility design, environmental planning and permitting headquartered in Kansas City, Missouri.*
- *Gainesville Regional Utilities is a municipal electric, gas, water, wastewater, and telecommunications utility in north central Florida.*

PROJECT DESCRIPTION

- *The South Energy Center at Shands Cancer Medical Center is intended to provide efficient and reliable on site electrical power generation, chilled water, steam and medical gases to meet 100% of the Cancer Hospitals needs in the event of an outage caused by natural disaster or other unplanned events.*
- *Burns & McDonnell provided architecture, engineering, procurement and construction management services.*
- *Gainesville Regional Utilities financed, owns and operates the South Energy Center as part of a 50 year agreement to provide electricity, steam, and chilled water.*
- *The energy center includes a state-of-the-art 4.3 MW Combustion Turbine – Solar Turbines Mercury 50; Heat Recovery Steam Generator – 14,500 lbs/hr(45,000 lbs/hr when supplemental fired); Steam Turbine Centrifugal Chiller – 1,200 ton; Combustion Turbine Inlet Cooling Coils; Two Electrical Centrifugal Chillers – @ 1,500 ton; Chiller Water Variable Primary Pumps;*
- *Packaged Boiler – 30,000 lbs/hr;*
- *Black Start Engine Generator – 500 kW; Emergency Engine Generator – 2,250 kW*



PROJECT BENEFITS

- *Increased Efficiency, Improved Reliability, Reduced Emissions*
- *LEED NC 2.2 CHP Calculation Methodology Earned 8 EA-1 Credits*
- *On-Site Energy Center provides 100% of the Hospital's Electrical and Thermal Energy*
- *\$30M Capital Savings accrued to the Hospital from not building its own Central Plant*

FOR FURTHER INFORMATION

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