



City of Jacksonville – Phase I

Jacksonville, Florida
Guaranteed Energy Savings



Project Size: 19 buildings, 1,459,389 sq ft
Project Value: \$7,276,854
Source of Funds: Jacksonville Electric Authority
Contract Terms: 20-year Guaranteed Savings
Project Schedule: Completed on time

Project Phase	Project Dates	
	Started	Completed
Comprehensive Energy Analysis	August 2002	December 2002
Design/Implementation	July 2003	May 2004
Monitoring	June 2004	May 2023

List of Improvements:

- LED traffic signals – over 30,000 lamps
- Solar photovoltaic system for lighting
- Solar water heating
- Energy-efficient lighting
- New EMS and HVAC automation
- Upgraded existing EMS
- Water conservation
- Installed VFDs on pumps and fans
- Modernized temperature controls
- Re-commissioned outdoor air systems
- Installed automatic damper controls
- Installed new HVAC condenser units
- Modified kitchen exhaust system
- Converted multi-zone AHU to VAV
- Added additional AC to Council Chambers
- Replaced VAV controllers
- Primary/secondary chilled water conservation

Guaranteed Annual Energy Savings: Year 1: \$636,914, 0% escalation

Annual Non-Energy Savings: Year 1: \$11,333

Achieved Summarized Savings:

Baselines	kWh	kW	CCF	Water (gal)	Steam (lbs)	Energy \$	Non-Energy \$	Total Dollars*
		18,206,706	404.7	3,732	5,545		\$636,914	\$11,333
ANNUAL SAVINGS								
Year	kWh	kW	CCF	Water (gal)	Steam (lbs)	Energy \$	Non-Energy \$	Total Dollars*
1	3,102,114	4,641				\$128,880	\$439,898	\$568,779
2	4,499,466	5,498				\$244,802	\$439,898	\$684,689
3	4,025,836	12,611				\$265,490	\$439,887	\$705,377

* Energy Savings + Non-Energy Savings = Total Annual Dollars Saved

Measurement and Verification: Option C and Stipulated Savings.

Comments: Converted over 30,000 traffic signal indicators from incandescent to LED.

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