



Case Study

U. S. General Services Administration

- Tampa, FL
- Fort Lauderdale, FL



R. L. Timberlake Jr. Federal Building, Tampa, FL



U. S. Federal Court House, Fort Lauderdale, FL

PROJECT HIGHLIGHTS

Environmental Benefits

Under measurement

Capital Costs

\$1,500,000

Annual Savings

\$201,840

Schedule Compliance

Completed on time

Budget Compliance

Completed within budget

PROJECT DESCRIPTION:

Design & Build Energy Efficiency

Challenge: ConEdison *Solutions*, through its subsidiary, BGA, Inc., utilized a local utility area-wide agreement to develop and implement various energy efficiency projects for the General Services Administration (GSA). The GSA had outdated HVAC equipment which was causing significant maintenance problems. The goal was to upgrade the facilities using more energy-efficient equipment.

PROJECT SCOPE

Solution: The work encompassed planning, engineering design, procurement, construction and commissioning services to ensure successful project completion of a number of energy-efficiency projects at the two Florida federal government facilities: R.L. Timberlake Jr. Federal Building in Tampa, and the Federal Court House Building in Ft. Lauderdale.

ENERGY CONSERVATION MEASURES

R. L. Timberlake Jr. Federal Building and Federal Annex Tampa, FL

HVAC upgrades

- Installation of premium efficiency return fan motors
- Replacement of a cooling tower
- Retrofit of a 35 year old, 325 ton chiller with an energy-efficient centrifugal chiller with a variable frequency drive. The existing 3-way valves were converted to 2-way valves and existing chilled water and condenser water pumps were replaced.

U. S. Federal Court House Building, Fort Lauderdale, FL

HVAC upgrades

- Installation and engineering of premium efficiency air-handling unit motors with variable frequency drives
- Conversion of 3-way chilled water valves to 2-way water valves
- Replacement of two 25 year old, 175 ton chillers with new energy-efficient rotary screw chillers
- Retrofit new condenser water pumps (primary and secondary) with variable speed drive to complement the new two-way chilled water valves