

# Harsh Winter Analysis Recovery Act Case Studies

## Leo W. O'Brien Federal Building

**Completion Year:** FY 2012

**Winter Energy Cost Savings:** \$19,000

**Winter Energy Reduction:** 12.4%

**Full-Year Energy Cost Savings:** \$60,398

**Full-Year Energy Reduction:** 20.5%

*\*Energy data and cost data from GSA's Energy Usage Analysis System (EUAS); Winter data includes November 2013-March 2014 and is compared to an FY 2008 baseline.*



At the Leo W. O'Brien Federal Building in Albany, N.Y., GSA used ARRA funds to invest in a complete re-commissioning of the existing heating, ventilation, and air conditioning system (HVAC), as well as an advanced metering system to track electrical and water consumption. These building upgrades help optimize energy efficiency and overall building performance levels. The building achieved LEED Certification in June 2013. **Total energy use over the five harsh winter months in FY 2014 (November 2013 – March 2014) is 12.4 percent less, as compared to the same months in FY 2008. Full-year energy reduction and full-year energy cost savings compares FY 2008 to FY 2013.**

## Federal Bureau of Investigation (FBI) Washington Field Office (WFO)

**Completion Year:** FY 2011

**Winter Energy Cost Savings:** \$81,980

**Winter Energy Reduction:** 9.5%

**Full-Year Energy Cost Savings:** \$158,892

**Full-Year Energy Reduction:** 7.8%

*\*Energy data and cost data from GSA's Energy Usage Analysis System (EUAS); Winter data includes November 2013-March 2014 and is compared to an FY 2008 baseline.*



At the FBI Washington Field Office in Washington, D.C., GSA used ARRA funds to invest in advanced metering and specialized lighting elements throughout the building for higher performance. The project replaced existing lighting fixtures and bulbs for lower energy consuming units, and installed auto-dimming systems, ballasts that adjust to daylight conditions through occupancy sensing, and a new building automation and controls system. **Total energy use over the five harsh winter months in FY 2014 (November 2013 – March 2014) is 9.5 percent less, as compared to the same months in FY 2008. Full-year energy reduction and full-year energy cost savings compares FY 2008 to FY 2013.**

## The Robert A. Young Federal Building

**Completion Year:** FY 2010

**Winter Energy Cost Savings:** \$55,232

**Winter Energy Reduction:** 10.7%

**Full-Year Energy Cost Savings:** \$263,245

**Full-Year Energy Reduction:** 20.5%

*\*Energy data and cost data from GSA's Energy Usage Analysis System (EUAS); Winter data includes November 2013-March 2014 and is compared to an FY 2008 baseline.*



At the Robert A. Young Federal Building in St. Louis, Mo., GSA used ARRA funds to invest in a complete retro-commissioning study to ensure proposed energy upgrades most effectively reduced operation and

maintenance costs, as well as energy demand. The resulting project installed advanced metering systems to track energy consumption, repaired building façade and windows, upgraded HVAC systems and controls, and retrofitted the building with efficient LED lighting. The project further offset energy use by installing a renewable energy photovoltaic system on the roof, which converts sunlight to electricity. ***Total energy use over the five harsh winter months in FY 2014 (November 2013 – March 2014) is 10.7 percent less, as compared to the same months in FY 2008. Full-year energy reduction and full-year energy cost savings compares FY 2008 to FY 2013.***