A Study in Energy Efficiency: Pennsylvania State Capitol, Harrisburg, PA

Classical Structures and Taxpayers Benefit from Energy Savings Effort.

Customer Profile
The State Capitol Complex is an assembly of classical government buildings in Harrisburg surrounded by parks, plazas, fountains, and statuary. Built between 1893 and 1939, the historic structures include the Capitol, Finance, Forum, Matthew Ryan Legislative Office, and North, Northwest and South Office buildings.

The Challenge
In a drive to save tax dollars through energy efficiency improvements, the Capitol Complex Energy Project was one of the most demanding guaranteed energy savings efforts the state ever attempted.
The Solution
In collaboration with the Pennsylvania Department of General Services (DGS), Constellation developed, constructed, and continues to monitor the savings generated by this high-impact project.

A sampling of the major energy conservation measures includes:
• 2,400 windows replaced
• 1,503 steam traps installed
• 14 variable-frequency fans and motor drives installed
• 332 lantern-style walkway pole lights converted to LED technology
• Direct digital control system upgraded and expanded
• Central chilled-water plant upgraded with two new 2,500-ton chillers
• All lighting retrofitted
• Building insulation upgraded
• Water conservation program instituted

The Results
The project was started in July 2006 and was completed in February 2008. The first year savings alone came to $1.5 million and the capital improvements added up to $19 million.

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To discover how we can put our expertise to work for you, call us today at 1.866.237.7693.