

**CASE STUDY:**

# PENNSYLVANIA STATE CAPITOL COMPLEX

*Comprehensive Energy Efficiency Guaranteed Savings Contract*

## FACILITY MODERNIZATION PROJECT

*This project used proven-effective technologies to maximize utility savings and fund critical infrastructure needs.*



### PROJECT SNAPSHOT

Pennsylvania released an RFP seeking to modernize its Capitol complex. The goal: dramatically reduce utility costs while upgrading antiquated building systems.

TEN won the right to implement this project through the State's streamlined Guaranteed Energy Savings Act (GESA).

### CUSTOMER PROFILE

Pennsylvania's Department of General Services (DGS) is a national leader in implementing innovative, cost-effective facility modernization projects.



**Working with visionary state leaders, TEN implemented a comprehensive project that maximized energy savings, using cutting-edge engineered solutions and inventive operational strategies.**

### PROJECT RESULTS

**OVER \$18.3 MILLION**

Project Size

**OVER \$1.2 MILLION**

Guaranteed annual savings

**Annual Environmental Savings**

6,400 tons of CO<sub>2</sub>

**Diverse Enterprise Participation**

over 50%

### TECHNICAL COMPONENTS

- Upgraded over 20,000 lighting fixtures using cutting edge LED technology
- Installed three new magnetic-bearing chillers and pumps with smart controls
- Modernized building controls and retro-commissioned utility distribution systems.
- Utilized innovative technologies (like chilled water plant optimization software) as well as time-tested low-cost measures (like passive window film to reduce summer heat gain)

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