

**CASE STUDY:**

# TEMPLE UNIVERSITY

## CAMPUS MODERNIZATION CONTINUOUS EFFICIENCY

Temple University has launched a multi-phase, three-year energy efficiency project that will modernize their campuses, enhance learning environments and deliver high-impact utility and environmental savings.



Temple University's visionary campus modernization program will generate over \$1 million in annual energy savings while meeting aspirational sustainability goals.

### PHASE I

**(complete or in construction):** new control systems that deliver Continuous Automated Commissioning. Energy efficiency measures (lighting, insulation, etc.) in 12 buildings and two parking lots.

### PHASE II

**(in construction):** upgrades to HVAC systems, sub-metering and optimization software, extension of energy efficiency measures (variable speed drives, lighting, new hot water supplemental heating system) to multiple additional facilities.

### PHASE III

**(in development):** continuing campus-wide energy efficiency and sustainability measures, including major systems modernization/upgrades.



Temple University's strategy for modernizing our campus reflects Temple's historic mission: access, affordability, diversity and excellence. TEN has helped us identify, size, plan and sequence measures to meet our financial goals and our sustainability commitments, keeping our campus fully-functional throughout the implementation process.

*-Kurt Bresser, Director, Utilities and Energy Management*



Temple University has used TEN's Continuous Efficiency approach to customize and sequence a multiple phase energy efficiency program.

TEN provides project design, planning, construction and commissioning expertise.

TEN also manages the project's highly-competitive vendor-neutral procurement process.

#### PROJECT OVERVIEW

3 Year Term Scope

**PHASE I** **\$2.6 million**  
project investment

**PHASE II** **\$5.4 million**  
project investment

**PHASE III** **\$5.4 million**  
project investment (est.)

#### PROJECTED ANNUAL ENERGY SAVINGS

**PHASE I** **\$732K**

**PHASE II** **\$475K**

**PHASE III** **\$625K**  
(est.)

#### PROJECTED ANNUAL SUSTAINABILITY SAVINGS

- 7,312 tons CO<sub>2</sub> reductions
- 20,300,000 kWh electricity
- 88,600 MMBTU fuel
- Over \$700,000 in rebates received and/or identified/applied for



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