

CASE STUDY:

TEMPLE UNIVERSITY

CAMPUS MODERNIZATION CONTINUOUS EFFICIENCY

Temple University completed a multi-phase, three-year energy efficiency project that modernized their campuses, enhanced learning environments, and delivered 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

New control systems that delivered Continuous Automated Commissioning. Energy efficiency measures (lighting, insulation, etc.) in 12 buildings and two parking lots.

PHASE II

Upgraded 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

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

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

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

PROJECT OVERVIEW

3 Year Term Scope

PHASE I **\$2.6 million**

PHASE II **\$5.4 million**

PHASE III **\$5.4 million**

PROJECTED ANNUAL ENERGY SAVINGS

PHASE I **\$732K**

PHASE II **\$475K**

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

PROJECTED ANNUAL SUSTAINABILITY SAVINGS

- 7,312 tons CO₂ reductions
- 20,300,000 kWh electricity
- 88,600 MMBTU fuel
- Over \$700,000 in utility rebates received



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