



NORTHERN ILLINOIS UNIVERSITY

DEKALB, IL



SAFETY RECORD

ZERO Recordable Events



PROJECT SIZE

40+ buildings

\$64M



PROJECT SCHEDULE

2000-2017



CONTRACT METHOD

ESPC



SAVINGS INFORMATION

Over \$4M in Annual Energy Services

Northern Illinois University (NIU) was seeking to improve their comprehensive energy efficiency and infrastructure, so they partnered with ESG to develop and implement these cost reductions.

SOLUTION

- Phase I - Lighting Retrofit (18 buildings)
- Phase II - Lighting Redesign and Retrofit Program (40 buildings and over 40,000 lighting fixtures)
- Phase III - Convocation Center HVAC Equipment
- Phase IV - West Chiller Plant
- Phase V - Two-Way Control Valve Installation (Four Residence Halls)
- Phase VI - Window / Door Replacement and Mechanical & Control System Retrofits (Five Residence Halls)
- Phase VII - Window Replacement and Solar Panels for Swimming Pools, Main Heating Plant Boiler and Miscellaneous HVAC Upgrades (11 Buildings)
- Phase VIII - Lighting, Occupancy Sensors, HVAC, Windows/ Doors, Heating Plant, Control System Upgrades and Piping Insulation (Campus-wide)
- Phase IX - Window Replacement, Lighting, Occupancy Sensors, Air & Dirt Elimination System, Structural Repairs, Brine System Piping, Building Automation Systems and Plumbing Fixtures (Campus-wide)
- Phase X - Steam Traps, Lighting, HVAC, Windows/Doors, Chilled Water Systems and Coils, Roofing (Swen Parson, Anderson and Lowden Halls), De-aerator (East Heating Plant)
- Phase XI - Roof Replacement, Building Automation System Upgrades, HVAC, Chilled Water Systems & Coils, Street and Parking Lot Lighting Upgrades

RESULTS

Through the implementation of ESG's plan, the University has avoided over \$39 million in capital expenditures and will realize over \$200 million in energy savings. ESG has been able to reduce NIU's carbon footprint by more than 425,525 metric tons of carbon dioxide (since 2000), which is equivalent to the removal of greenhouse emissions from 73,691 passenger vehicles or the planting 103,167 acres of pine trees.

