

Allentown Parking Authority

GreenTech Energy Services was hired to upgrade the lighting in the Government Deck and Transportation Center of the Allentown Parking Authority. The project included the following measures.

- In the drive lanes, existing 175 and 200-watt metal halide fixtures, pendant-mounted at approximately 9 feet, were replaced by 40-watt LED fixtures with weatherproof lenses. The same fixtures were used to replace 100-watt metal halide fixtures in the stairwells.
- Existing 400-watt metal halide rooftop pole lights were replaced by new 128-watt LED fixtures with weatherproof lenses.
- Existing 100-watt metal halide site lights were replaced by 30-watt LED wall packs.

Energy & Cost Savings:

- Program Cost-----\$353,792
- Utility Rebate-----\$57,952
- Payback Period-----2.9
- Internal Rate of Return-----39%
- KW Saved-----87
- KWH Saved-----664,651
- Energy Cost Savings-----\$66,324
- Operational Savings-----\$14,152
- Total Savings Per Year-----\$80,475

Environmental Impact:

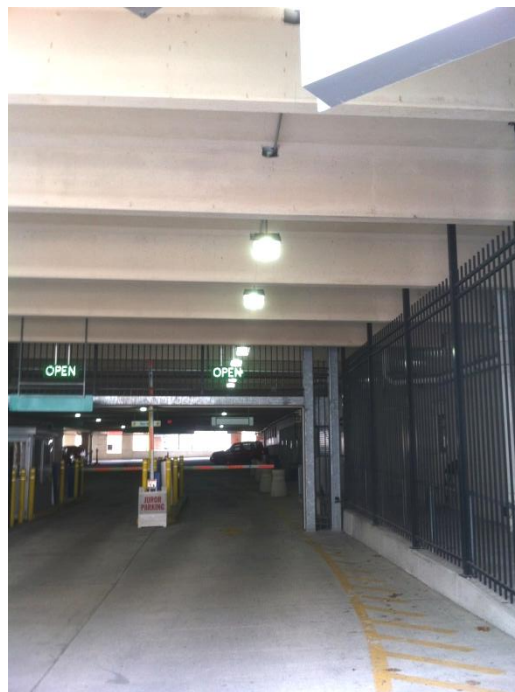
- Reduction in Carbon Dioxide (pounds)----996,977
- Reduction in Sulfur Dioxide (grams)-----3,722,048
- Reduction in Nitrogen Oxide (grams)-----1,661,629

“Our goal was to reduce our energy consumption and control our maintenance costs. Only two months after the project, we’re already seeing the results we hoped for. Aesthetically, the whole building looks new. Thanks to PPL’s rebates, we could afford to upgrade to LED lights, which look much brighter to the eye. As for the installation, GreenTech worked so efficiently that the project went much faster than we anticipated. They brought in as many crew members as needed each day, cleaned up and put everything in storage every night, and never disrupted operations. Overall, we’re very pleased; this investment was really a no-brainer.”

Wayne Shupp, Allentown Parking Authority
Facility Supervisor



BEFORE



AFTER