



Courting Better Lighting a Good Decision by the Feds

Though only 14 years old, a GSA-run federal building had costly and inefficient lighting, both inside and out, including a 55,000 ft² green space and 83,000 ft² of hardscape parking



Asset Facts

Date Built	2002
Square Feet	316,000 building 138,000 outdoors
Asset Type	Federal Building and Courthouse

Project Facts

Annual Energy Savings	107,450 kWh
Annual Savings	\$12,863
Gross Investment	\$193,118
Rebates Received	\$9,520
Rebates as % of Total Project Cost	4.9%
Net Investment	\$183,598
Net Payback	14.2 years

ROI 7%

Challenges

In order to not disrupt the court's business, we focused on only one courtroom at a time, scheduling work for holidays and weekends, allowing judges and other agencies in the building to maintain their planned court schedules. To reach the cupola lighting, we built, disassembled, and rebuilt a 30' scaffolding in each courtroom.

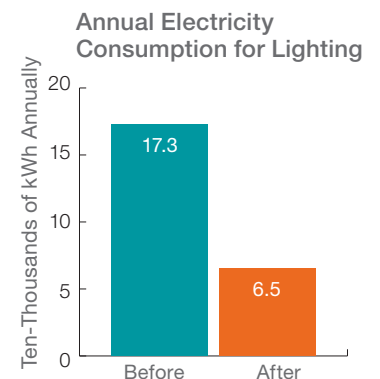
Our Solution

The project was delivered on time, within budget, and caused no unforeseen problems during the installation process. GreenGen performed the following:

- Conducted an on-site survey and Investment Grade Audit of lighting at the courthouse; coordinated with facility engineers and city administrators
- Reviewed the proposed lighting spectrum content with the US Marshalls and Federal Protective Services to ensure infrared lighting levels were sufficient for surveillance camera operation
- Engineered site-specific photometric plans in conjunction with courthouse on-site personnel and GSA requirements for energy efficient LED lighting upgrades
- Designed and provided demonstration of decorative lighting solutions before installing the approved design
- Used the GreenGen secured rebates to upgrade the 44 utility room fixtures to LED tubes

Energy Savings – 62%

- Annual lighting energy usage reduced by 62%
- First year guaranteed savings confirmed by formal measurement and verification
- 10 year guaranteed energy savings of \$143,400
- ~\$10K annual O&M savings can be realized by the customer



How can we help you? Please contact Green Generation Solutions at info@greengenerationsolutions.com or 301.202.2930