

## PROJECT CASE STUDY

# US Department of Energy James Forrestal Building LED Lighting Upgrade

### ENVOCORE SOLUTIONS

- The team performed a facility wide LED lighting upgrade
- Replaced existing 32 watt linear fluorescent lamps with type A tubular T8 LED lamps.
- Identified ballasts that were not compatible with the T8 LED lamps, and upgraded the ballasts to compatible ballasts.
- Other applications included recessed can light upgrades, retrofit kits, and light bars (for cove lighting applications)

### THE DRIVERS

- Managing compatibility between existing fluorescent electronic ballasts and the DOE selected type A T8 LED lamps
- Addressing challenges related to dimming applications
- Maintaining the integrity of the emergency lighting systems all while minimizing the impact and inconvenience to building occupants

### PROJECT BACKGROUND

Retro-Tech, a division of Envocore was selected by an ESCO qualified for the DOE's Enable program to audit and design an LED lighting upgrade throughout the facility.

The energy savings for a project of this magnitude were significant. The DOE expects to save over 1.7 million kWh per year in addition to substantial maintenance savings due to the extended life of the LED products. In all, RTS upgraded over 27,000 light fixtures, installing over 37,000 LED lamps of various types.

### ABOUT THE BUILDING

The James Forrestal Building is the headquarters for the U.S. Department of Energy. This nearly 1.7 million square foot building was built between 1965 and 1969 to accommodate U.S. Armed Forces and is named after the first U.S. Secretary of Defense.

<https://www.energy.gov/>