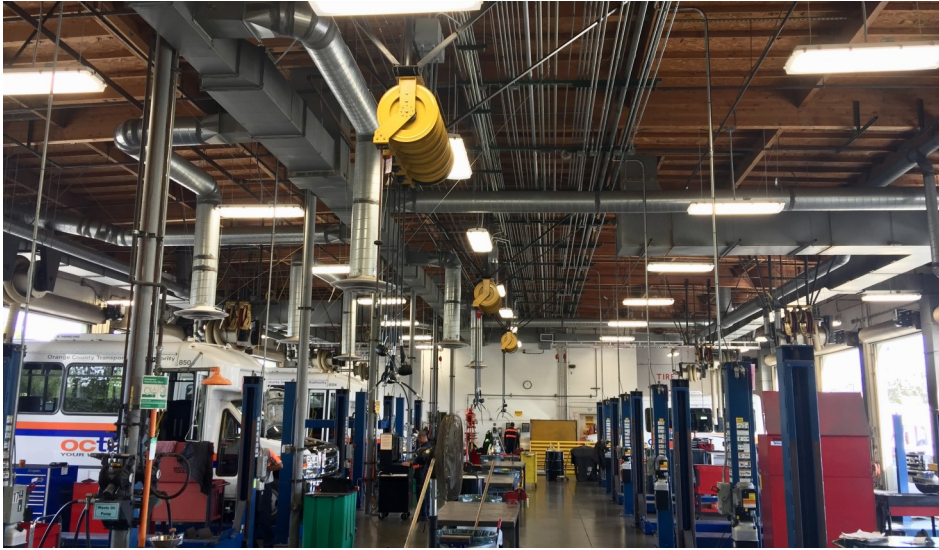


## Orange County Transportation Authority Anaheim, CA



*"OCTA will save 64% on lighting expense by upgrading their HID fixtures to LED."*



### L7900 Series LED Vaportite Features:

- Projected L70: 131,000 hours
- Sensors can be integrated for additional energy savings
- ETL Listed and DLC Premium Listed
- Lenses are made of 100% impact resistant acrylic
- Standard with stainless steel latches and mounting brackets
- Operating Temp: -40°C - 45°C Ambient

### 222 LED Vaportites Replace HID

#### The Situation:

The Orange County Transportation Authority, looking to upgrade the lighting in their truck washing depot, replaces their HID high bays with LED vaportites. OCTA needed a weatherproof fixture able to withstand high pressure wash-down and prevent the collection of moisture, dust and contaminants. FSC's L7900 was able to meet all specification requirements while delivering improved light levels and reducing energy usage.

#### The Solution:

FSC Lighting's L7900 Series 170 watt vaportite was chosen to retrofit the 400 watt HID high bay, while it's 80 watt counterpart was used to replace 250 watt fixtures. By retrofitting their existing HIDs, the depot will use 533,221 fewer kilowatt hours (kWh) per year, an annual savings of approximately \$90,648. As an added benefit the L7900 LED fixtures qualified for utility rebate of \$100 per fixture. Annual energy cost savings coupled with the substantial rebate guarantees a pay-back of less than two years. In addition, FSC Lighting made modifications to the fixtures to meet code requirements by installing Nema 7 sockets to all fixtures, preserving the enclosure's integrity, therefore maintaining the warranty. This customization made installation faster and simpler for the installing contractor.

FSC Lighting helped select and design a cutting-edge lighting and IoT control plan that would not only maximize energy savings but allow the OCTA to make data driven decisions as well as select time of day & date-based dimming for lighting. This sophisticated cloud-based system needed to have a node installed on each fixture that required waterproof connections. FSC was able to accommodate that need with the L7900 fixture.

	EXISTING	REPLACEMENT
TECHNOLOGY	HID	LED
SYSTEM	400/ 250WT HID High Bay	170/ 80WT LED Vaportite
TOTAL SYSTEM ENERGY USAGE	458/295	170/80
CONTROLS	None	Occupancy & Daylight Programmable Sensor
TOTAL ANNUAL kwh	830,711	297,490

**FSC Lighting delivers RESULTS:**

ANNUAL ENERGY COST SAVINGS:

**\$90,648**

ANNUAL ENERGY SAVINGS:

**533,221 kWh**