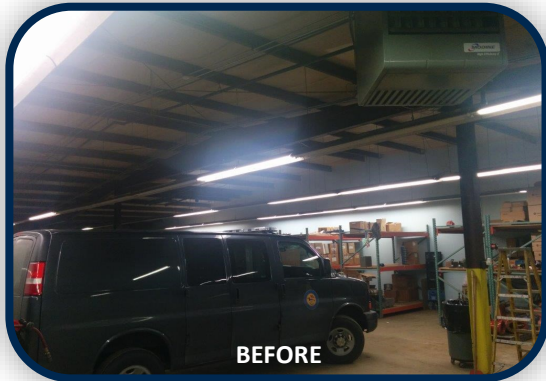




Hanover Public Works



"The Town of Hanover will use 65% less energy by retrofitting its existing T8 strips."

subject: hanover public works auto shop
 location: hanover, ma
 description: 60 - 50w L-bar strip

The Situation:

The Town of Hanover, Massachusetts, looking to reduce its increasing maintenance and energy costs recognizes retrofitting dim T8 fluorescent with a greener LED option would deliver bright, high-quality light, while helping reduce energy consumption and costs. The current lighting was dingy and yellow, making it difficult to see and conditions less safe for employees. Another issue was that there was severe deferred maintenance issues between burned out lamps and aged ballasts.

The Solution:

FSC Lighting's L8500 Series LED Strip was chosen to retrofit the T8 fluorescent fixtures throughout the shop, dropping lighting costs by 65%. By retrofitting the 158 watt strips with FSC's 50 watt L8500 Series, the Town of Hanover will use 14,602 fewer kilowatt hours (kWh) per year, an annual savings of approximately \$2,219. FSC Lighting's 50 watt LED Light Bar was not only able to save energy consumption, but drastically improved light levels. In addition, Guardian Energy Management Solutions was able to work with their customer to implement a lighting control strategy without breaking the budget. By using the L8500 Series they were able to onboard on/off occupancy sensors on the new channel covers. Other solutions considered would have required additional labor.

	EXISTING	REPLACEMENT
TECHNOLOGY	Fluorescent	LED
SYSTEM	2 Lamp T8HO Strip	L-Bar Strip
TOTAL SYSTEM ENERGY USAGE (watts)	158	54
CONTROLS	None	Occupancy Sensors Demand Response Ready
TOTAL ANNUAL kwh	22,183	7,582

RESULTS:

ANNUAL ENERGY SAVINGS:

14,602Wh

ANNUAL ENERGY COST SAVINGS:

\$2,219

