

LED TOUR | NOVEMBER 16, 2015



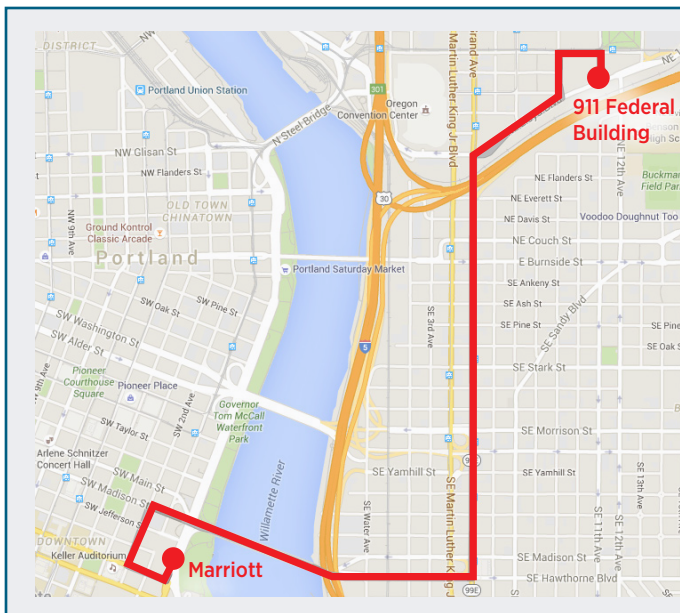
GSA 911 Federal Building

The 911 Federal Building in Portland, Oregon, was the first General Services Administration (GSA) property to earn the U.S. Green Building Council's LEED Platinum certification for existing buildings. A guided bus tour will provide a firsthand look at an LED connected lighting system that replaced T8 fluorescent lighting in the eight-story building as part of GSA's Green Proving Ground program. GPG conducts real-world evaluations of emerging building technologies in order to recommend deployment strategies for GSA and for the U.S. commercial building industry.

The 911 Federal Building's Philips SpaceWise connected lighting system consists of LED luminaires with integral sensors that can share data wirelessly with neighboring luminaires, thereby allowing them to switch, raise, or lower their light output in response to occupancy and daylight—and, in the process, maximize their operational efficiency.

Based on the SpaceWise system's performance in pilot installations in Atlanta and Chicago, GPG decided to install it in the 911 Federal Building to support a study of electrochromic windows that is taking place on floors 5 through 7. Another study of how electrochromic windows affect the performance of Philips Power over Ethernet and wireless connected lighting systems is also planned for the building.

\$20 transportation fee. Limited space. Check at registration for departure time availability.



Tour Itinerary



STOP 1

Entrance: Federal building security. *Please bring government-issued photo ID.*

STOP 2

Seventh Floor: Observe the T8 fluorescent system that was replaced elsewhere in the building by the Philips SpaceWise LED system.

STOP 3

Fifth Floor: See the SpaceWise system in action, as well as the electrochromic windows, and hear GSA staff discuss the installation. The SpaceWise system on this floor consists of 245 2x2 LED troffers with integrated controls, which replaced 265 four-foot T8 fluorescent fixtures for an expected reduction of 61% in energy costs.

Departing from the Portland Marriott Downtown Waterfront, the 90-minute bus tour will be divided into two groups, with the first group leaving at 7:15 p.m. and the second group leaving at 8:00 p.m. Attendees should meet in the hotel lobby 15 minutes before their designated departure time.

Comparison of Existing Lighting with Philips Spacewise 2x2 LED Troffer Retrofit

Fifth Floor—911 Federal Building, Portland

	Lamp Type	Fixture Quantity	Input Watts Per Fixture	Total kW	Annual kWh ¹				
Incumbent Lighting	4' T-8 Fluorescent	265	35.1	9.30	25,681				
New Lighting	2x2 LED Troffer	245	24	5.88	16,235	Estimated Savings with Controls²			
						Annual Energy Savings (kWh)	% Savings	Annual Cost Savings ⁴	
						9,446	15,778 ³	61%	\$1,488

1 Annual Operating Hours: 2,761

2 Proposed controls integrated and located at each fixture

3 Additional energy savings from controls estimate, source: Wireless Advanced Lighting Controls, LBNL

4 Electricity Cost: \$0.0943/kWh