



## ENERGY EFFICIENCY

# LEED CERTIFICATION

The Illinois Tollway's 12 maintenance facilities serve as a support hub for equipment, materials and trucks for responding to roadway incidents, debris removal, snow removal, emergency repairs and general roadside maintenance all on a 24/7 continuous basis.

LEED has provided the Tollway with guidelines to achieve sustainability goals for facility construction, as well as operational goals that prioritize environmental stewardship.

The Tollway's first facility, the LEED Gold Alsip maintenance site on the Tri-State Tollway (I-294), was completed in 2015.

On the Jane Addams Memorial Tollway (I-90) the LEED Gold Rockford maintenance site was completed in 2018 and the LEED Gold Marengo maintenance site was completed in 2019.

Work is underway on new LEED-certified facilities including the Aurora maintenance site on the Reagan Memorial Tollway (I-88) and a new Bensenville maintenance site to serve the Illinois Route 390 Tollway.



## OVERVIEW

Leadership in Energy and Environmental Design (LEED)-Certified maintenance sites – a first for any Illinois transportation agency – are part of the Tollway's commitment to incorporate cost-effective, sustainable programs that help the agency protect the environment and operate more efficiently.

Through an interactive construction process with maintenance workers, engineers, designers and contractors, the Tollway developed prototype maintenance facility designs that address all of the Illinois Tollway's needs, as well as streamline facility construction and provide reduced operational costs.

## PROJECT SUMMARY

LEED certification is a globally recognized symbol of sustainability achievement. Available for all building, community and home project types, LEED provides a framework to create healthy, highly efficient and cost-saving green buildings.

To achieve LEED status, the Tollway facilities construction provided for recycling of more than 50 percent of the construction waste, incorporating more than 20 percent of new materials with recycled material and incorporating more than 20 percent regional materials.

Sustainable elements in the Tollway maintenance facilities include refueling equipment for low-emitting and fuel-efficient vehicles, installation of white TPO roof and concrete pavement with low reflectivity, reduction of light pollution with the installation of LED electronically programmed exterior lighting and interior occupancy lighting and geofoam installation for ground stabilization and reduced loading.

The buildings also incorporate photovoltaic panels to feed power back into the grid and electric vehicle charging stations. Skylights and punched openings in the pre-cast wall panels use translucent, insulating glass and polycarbonate panels to provide abundant natural lighting. The use of in-floor hydronic radiant heat and overhead natural gas radiant heat, along with installation of low-flow fixtures further reduce energy and water costs.