EV charging stations at RIT’s Golisano Institute of Sustainability

This project was initiated upon the request of professors and staff who drive electric vehicles (EVs) and wished to charge their vehicles during class and activities at the Rochester Institute of Technology (RIT). The campus is located outside of the City of Rochester and is served by only a single bus line, so the vast majority of faculty and staff commute in personal vehicles.

**What they did**

The EV charging stations were installed in the open parking lot of the Golisano Institute for Sustainability (GIS). The stations were included in the earliest construction plans for the new center, so complications regarding site preparation were minimal. The building is home to GIS master’s degree and Ph.D. programs in sustainability and architecture, and it was constructed to meet Leadership in Energy and Environmental Design (LEED) standards. Two Level 2 units with four charging ports were installed in a premium parking location in a lot next to the Center. The four parking spots are marked with aluminum signage, and the stations themselves are highly visible. Precast parking curbs were used to protect the units.

**Support and results**

RIT maintains the stations. They are not on an EV charging network, so the stations cannot accept payments. Future EV charging stations at RIT, according to senior sustainability advisor Enid Cardinal, would benefit from fee collection and policy enforcement so that the chargers are more readily available to multiple EV drivers.

ChargeNY accelerates the use of plug-in electric vehicles on the road by making infrastructure such as charging stations more available, easier to use, and more economically viable in New York State.
Use of the station has been fairly consistent since the soft opening in April 2013. During the spring 2013 semester, the station was regularly frequented by three or four vehicles a day, including three Chevrolet Volts and a Nissan Leaf. Usage declined slightly during the summer intersession to one or two vehicles per day.

Lessons learned from this project include the need to establish payment strategies and parking enforcement policies. RIT was able to avoid many hurdles and added costs experienced by other institutions by incorporating the stations into a larger construction project. Because the parking lot was already being reconstructed, trenching costs were substantially lower. RIT has plans to install additional stations but would like to establish a bigger picture plan and strategy for installing this technology beforehand. RIT administrators must determine how EV charging policies will be enforced, what those policies will be, how fees will be levied, and whether or how the institution might pull electricity from parked EVs during times of peak usage. Because these matters were not previously considered, the answers will inevitably be complicated by the precedent and limited functionality of exiting EV chargers. Yet, given that more than one third of RIT’s total carbon footprint is derived from the commuting habits of employees and students, the opportunity and potential gain remain significant.

Get started

Visit nyserda.ny.gov/ChargeNY or call 1-866-NYSERDA to learn how you can reduce your energy consumption and costs.