OVERVIEW

The UCI Advanced Power and Energy Program (APEP) is home to 30 Scion iQ electric vehicles provided by Toyota Motor Sales, USA, Inc. Toyota only produced 100 of these cars globally, 90 of which have been deployed in the United States. The iQ EV is designed as a “city car”-- ideal for around-town commuting. APEP was selected as the first of only three US entities to receive these specialty vehicles for deployment primarily in commuter ride-sharing programs.

GOALS

- Evaluate the iQ in a car-sharing application
- Provide vehicle use and performance data to Toyota
- Monitor charging behavior and its impact on the grid

VEHICLE INFORMATION

The Scion iQ EV is an all-electric, battery powered “city car” with seating for four, designed specifically for local urban driving, and short freeway commutes. The car features an ultra-compact high-output lithium-ion battery with a power consumption rate of 104 Wh/km. Its 12-kWh battery has a range of up to 50 miles in ideal stop-and-go driving conditions, and a top speed of 78 mph. The car can be fully charged in approximately three hours at 240V. Its short wheel base and 13.5-foot turning radius make it very maneuverable and well suited for congested areas where streets are narrow and parking spaces are limited.

RECENT PUBLICATIONS/PAPERS


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