OAK RIDGE NATIONAL LABORATORY

MANAGED BY UT-BATTELLE FOR THE DEPARTMENT OF ENERGY

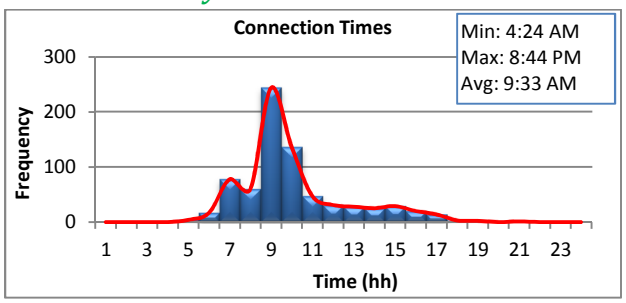
EV Project Solar-Assisted Charging Infrastructure Summary Report

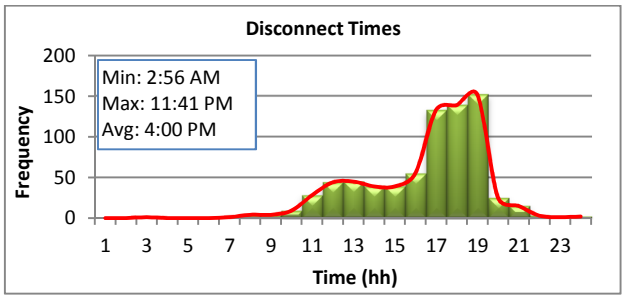
EVSE Grouping/Region: ORNL non-solar
Report Period: January 1-March 31, 2015 (Quarter 1, 2015)
Number of EV Charging Stations: 19

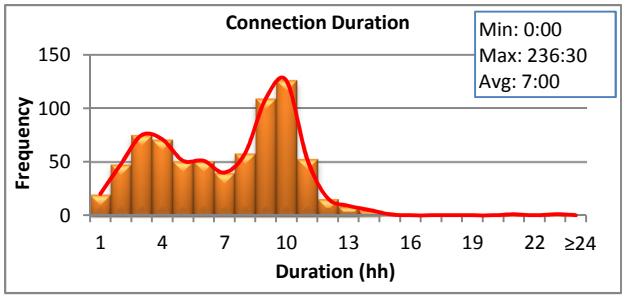
Usage Statistics	Q1	Q2	Q3	Q4
Number of charging events	739	-	-	-
Percent of time (connected vehicles)	12.6%	-	-	-
Percent of time (charging vehicles)	12.6%	-	-	-

Installation Statistics	Q1	Q2	Q3	Q4	2015 Totals
Solar-energy generated (MWh)	N/A	-	-	-	N/A
Energy consumed (MWh)	6.40	-	-	-	6.40
Net energy generation (MWh)	-6.40	-	-	-	-6.40
Total distance traveled (mi)[i]	18295	-	-	-	18295

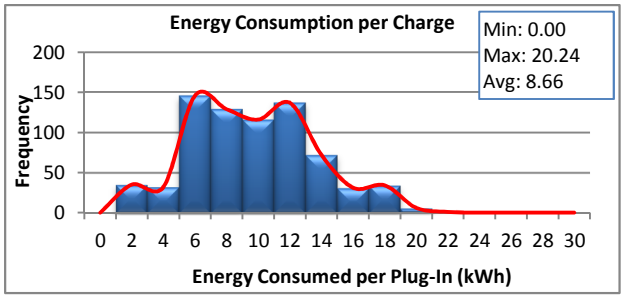
Time Series Analysis

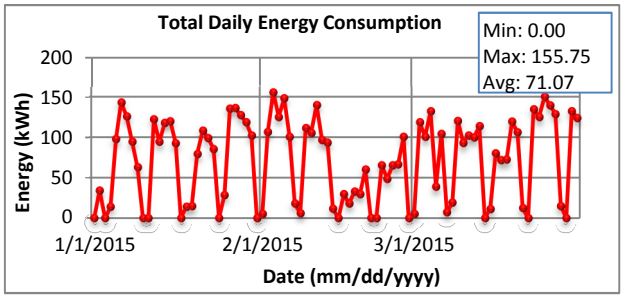


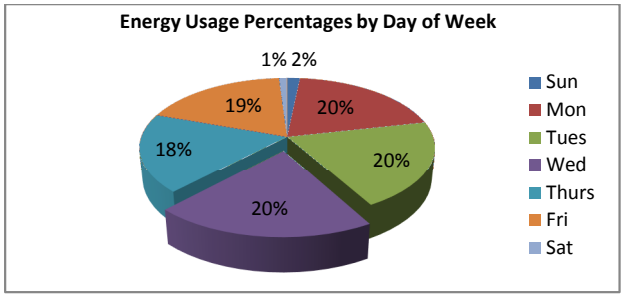


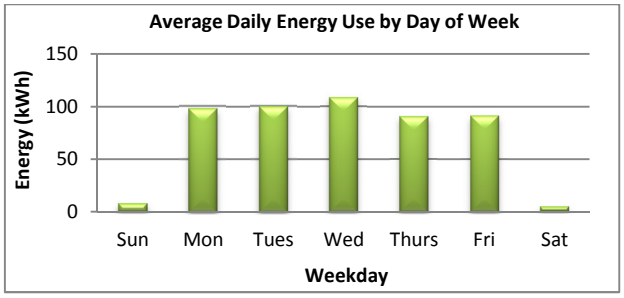


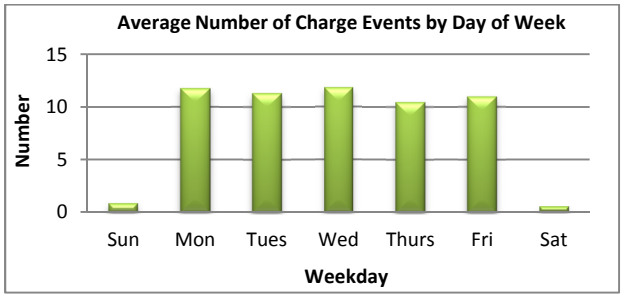
Energy Consumption Analysis



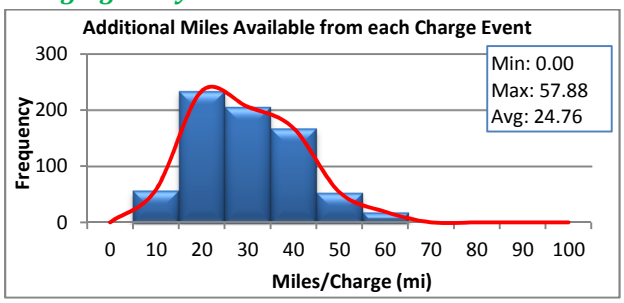


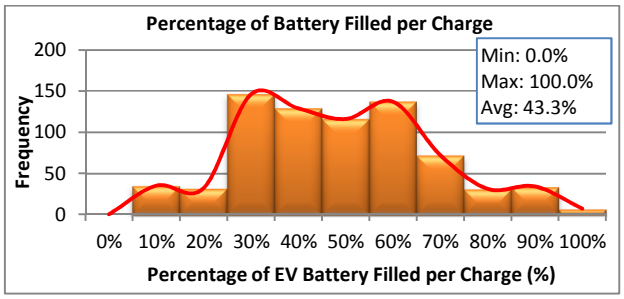




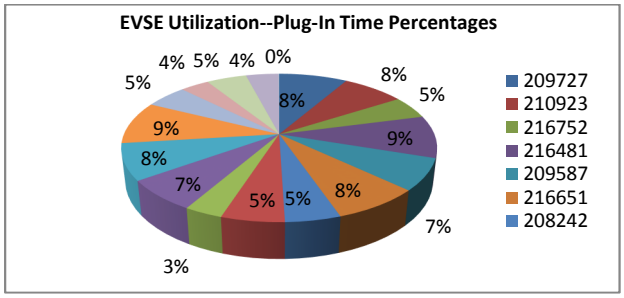


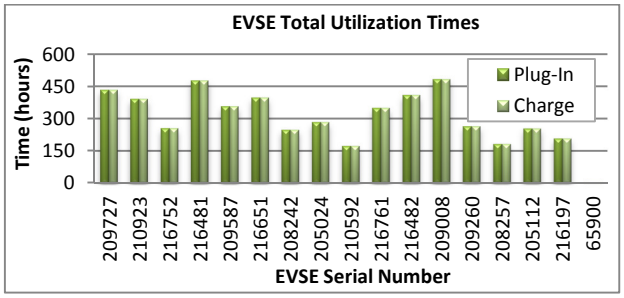
Charging Analysis





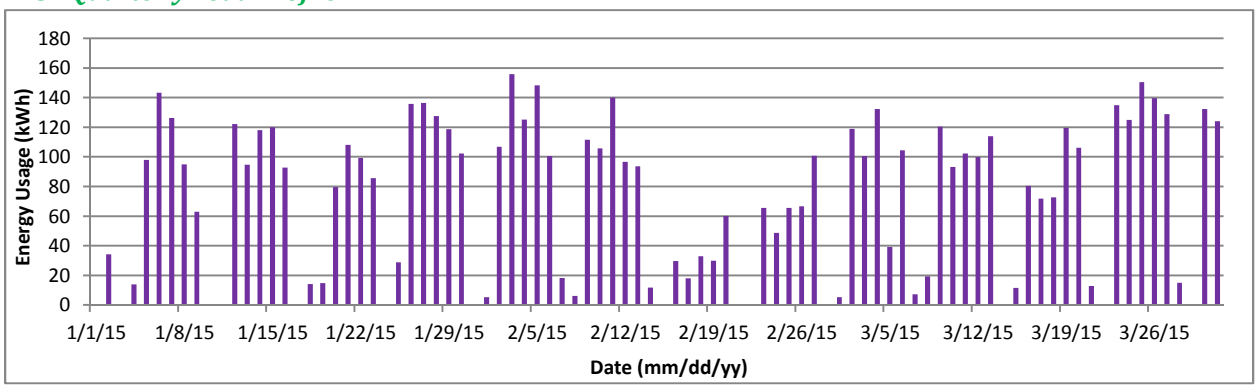
EVSE Analysis





Report Period Summary	Q1	Q2	Q3	Q4
Average connection duration (hrs.)	7.0	-	-	-
Average charge duration (hrs.)	7.0	-	-	-
Average miles per charge[i]	24.8	-	-	-
Average % of battery filled per charge event[ii]	43.3%	-	-	-

EVSE Quarterly Load Profile



[i] Based on the total energy consumption and an average of miles per kWh for the Nissan Leaf (2.94 mi/kWh) and Chevy Volt (2.78 mi/kWh). Values taken from http://www.fueleconomy.gov/.
[ii] Based on energy consumption and size of battery for the Nissan Leaf (24 kWh) and Chevy Volt (16 kWh).