

Hawaii Electric Vehicle Network Initiative: Final Summary

Date of report: November 8, 2011

Project objectives:

1. Develop expertise in Hawaii for planning and deploying EV network infrastructure as a means to accelerate the implementation of a fully scaled solution.
2. Demonstrate tangible progress in Hawaii that will drive further transportation electrification projects and commercialization.
3. Pre-commercial testing and validation of the integration of intelligently managed EV network infrastructure with utilities.
4. Collect and analyze data of vehicle operation, battery operation, and user behavior (e.g., driving and charging patterns), which will be used to help optimize the EV network infrastructure for future, commercial build outs.

Project achievements:

Better Place successfully conducted a pre-commercial demonstration that included Better Place Electric Vehicle (EV) network and services, EVs, charging infrastructure sites with dedicated EV parking and a mix of users/drivers along with data acquisition, analysis and reporting. During the course of the Project, Better Place also sponsored or participated in several community outreach and education events.

The Better Place EV networks and services included Level II electric vehicle supply equipment (EVSE or Charge Spots), related circuitry and metering, Operations Center (OC), customer care services and communication and IT systems.

Better Place installed ten Charge Spots (representing 20 charge points) in five locations:

- Sheraton Waikiki parking garage
- Hawaiian Electric Company (HECO) (Ward Avenue garage, Waiau power plant and Kahe power plant)
- Hawaii Center for Advanced Transportation Technologies (HCATT)

All of the project's pre-defined goals were successfully achieved and are detailed in the final PICHTR report that was submitted to HREDV.

Below are photographs of the installed base charge spots as well as the Operations Center that Better Place operated through the duration of the project:



Figure 1: Screen at the Better Place Operations Center

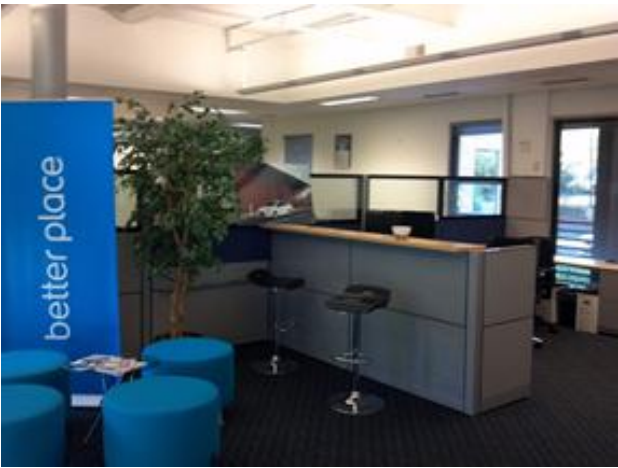


Figure 2: Better Place OC in Palo Alto, CA



Figure 3: Blessing event at the Sheraton Waikiki



Figure 4: Chevrolet Volt at the Sheraton Waikiki



Figure 5: HCATT Charge Spot site (Before)



Figure 6: HCATT Charge Spot site (After)



Figure 7: Charge Spots at the Sheraton Waikiki



Figure 8: Charge Spots at the Sheraton Waikiki



Figure 9: Volts charging at the Sheraton Waikiki



Figure 10: Better Place staff at the Kahe site