What the Electric Vehicle Has Been Waiting For!



Get Connected with GE EV Infrastructure Solutions

EVSE Sales Leader-Joshua Caillavet

GE's EV Infrastructure Family







DuraStation

Pole/Wall Mount



DuraStation Single,Double Pedestal

Features

WattStation™ Pedestal

WattStation™ Wall Mount

Level 2 charging, Yes Yes Yes 208-240VAC @ 30A **Mounting options** (1) Wall Mounted (1) Single Pedestal (4) Single/Dual Pedestal/PoleWall Mounted Cord management system Fully retractable integrated Simply wrap around Simply wrap onto a cord holder when cord management system the unit when not in not in use use Access Control **RFID and Payment Options** No RFID Software Available Yes – WattStation[™] Connect No Yes – RFID Access Control **Network Connectivity** Ethernet, Wifi, Cellular No Ethernet **Outdoor Rated** Yes, NEMA 3R Yes, NEMA 3R Yes, NEMA 3R Modular Upgrades No Yes Yes



WattStation Connect™

Overview

Manage, monitor and maintain

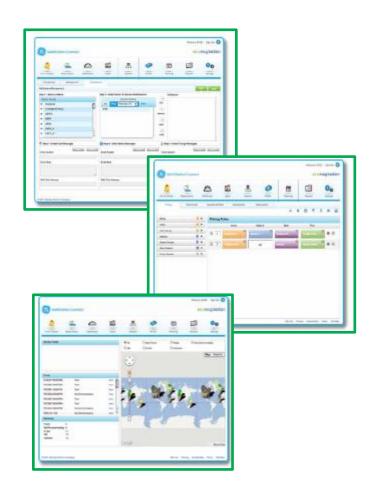
Timely information about the state of their charging stations gives owners the ability to diagnose and manage problems remotely. The ability to define and set pricing plans for the use of their charger is also included.

Access control and payment options

Radio Frequency Identification (RFID) technology provides secure access to charging stations. EV owners can select and pay using our WattStation Connect App .

Web Services (API):

WattStation Connect can be interfaced to your current building management, HR or fleet systems using an Application Programming Interface (API) to provide an integrated solution with no need to change your current processes.





WattStation ConnectTM

WattStation Connect App for the EV Driver

- Find a Station
- Pay for Usage
- Account management

WattStation Connect App for the Installer: Allows an installer to provision and set-up the WattStation at the installation site.

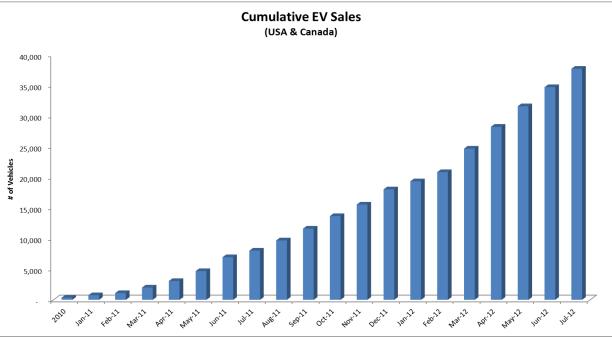
Mobile App Availability:

- Apple App Store (iPhone iOS 5 or higher)
- Android Market (Android OS 4)





EV Market



Forecast: 11,000 PHEVs by 2019 in Miami

Potential Impact: Mass EV charging could result in an increased peak load of 75MW

* "Assesment of Plug-in Electric Vehicle Integration with ISO/RTO Systems" 2010 KEMA and ISO/RTO







Launched 2010

Chevy Volt



Launched 1H 2012



Launched 1H 2012



Launched 1H 2012



Launched 1H 2012

Ford Focus



Launching 2H 2012





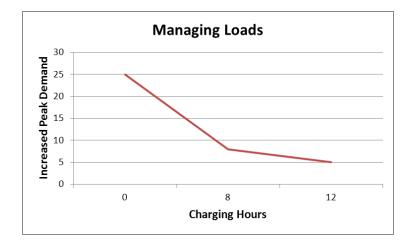
Honda Fit EV

Managing the Demand

Staggering the charge period over 8 hours would decrease the additional peak load to 8MW.

Grid Problems

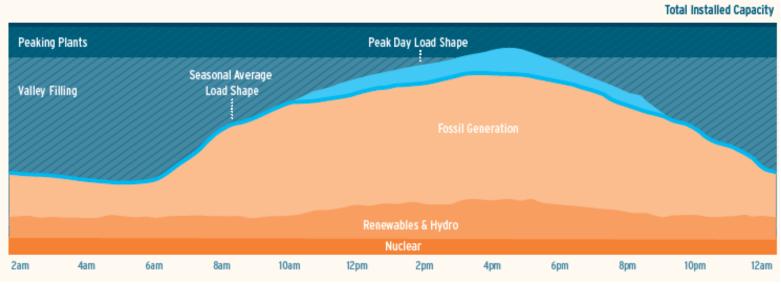
- Insufficient generation
- Undersized transformers
- Potential fossil fuel energy sources
- Under voltage & over voltage issues





Managing Loads Base Load vs. Peak Load

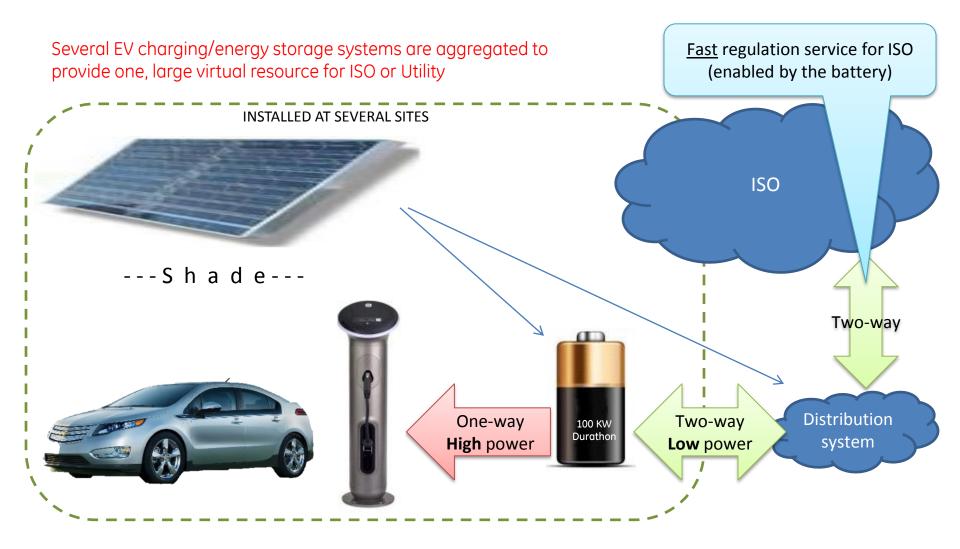
Utilize Solar, EV, and Battery Storage to Flatten the Demand Curve



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Example Test Site



Benefits of Solar + EV + Battery

- Accelerate adoption of electric vehicles
- Develop a public electric vehicle infrastructure
- Make electric vehicles truly "zero emission"



- Mitigate impact of electric vehicles on existing distribution grid
- Alternate revenue generation from electric vehicles thus greater ROI
- Environmentally Friendly





Plainville Solar Carport

- 100kW grid-tied solar system (125MWh)
- Benefits
 - Powers the parking lot lights and 10 Charging Stations
 - Offsets power of 13 EVs/day or 20 homes/year
 - Provides covered parking for ~40 cars
- Showcases GE components
 - EverGold DC Disconnect and DC Combiner Box
 - Legacy Panel, AC Disconnects, Breakers
 - Charging Stations

Pilot Plan

- Pilot includes 30 solar powered car ports
- Located at large public parking locations
- Includes 100 KW of battery storage
- Includes level 1 & 2 and DC fast charging









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