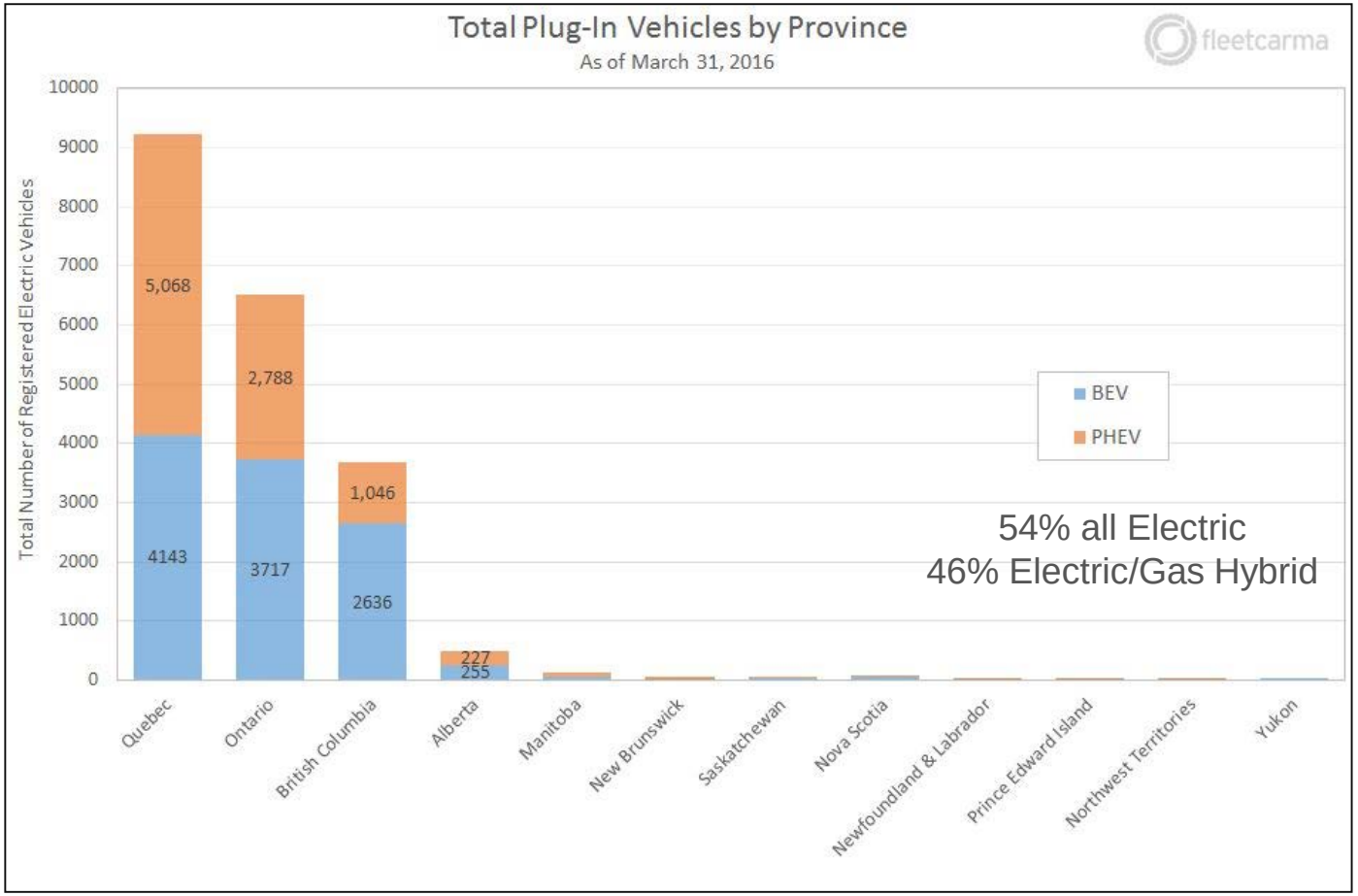
current
powered by GE

Canadian EV Market and GE Charging Stations

Canadian Electric Vehicles in PQ, PO, PBC



20,000 Electric Vehicles in Canada!

current
powered by GE

Market Forces Driving Electric Vehicle Growth

Reason #1:

Battery Costs Are Dropping Fast

- Battery prices are headed below the $150 per kilowatt-hour (2017 BOLT is $145). That's the point where experts believe that EVs enter the mass market.

Reason #2:

Longer Range, Lower Cost Electric Vehicles Are Coming To Market

- After Tesla and GM, Ford is investing $4.5 billion in electric cars, and by 2020, more than 40 percent of its lines will be electrified

Reason #3:

More EV Charging Stations Installed

- Public utilities and others are moving to increase the number of charging stations. Grant Funds.
- New construction and renovation plans increasingly specify pre-wire for owner installed charging stations.

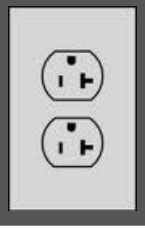
Reason #4:

The global imperative to cut carbon Emissions

- NRDC and the Electric Power Research Institute studies found that widespread electric vehicle use could cut carbon pollution by 550 million metric tons annually in 2050, equivalent to the emissions from 100 million passenger cars.

current
powered by GE

Three Levels of EV Charging

	Level 1	Level 2	Level 3
			
Voltage	**110-120 VAC**	**208-240 VAC**	**480 DC**
Amperage	**15-20**	**30-50**	**80-100**
EV range/hour charge	**2 – 5 miles**	**10 – 30 miles**	**180 – 240 miles**
EV range/4 hour charge	**8-20 miles**	**40-120 miles**	**180-240 miles**
Station Cost	**Free with EV**	**$2,000 - $6,000**	**$15,000 - $50,000**
Installation Cost	**None**	**$2,000 - $20,000**	**$15,000 - $50,000**
Charging Standards	**Std. Socket**	**SAE J1772 Uniform Std.**	**Japan, EU, Tesla**
Tesla Charging Capable	**Yes – Adaptor***	**Yes – Adaptor***	**Japan – Adaptor***
Optimal application	**Home/Overnight**	**Work/Public Parking**	**Intercity/Interstate**

GE EV Charging Stations Overview

GE Commercial Charging Stations

Station Hardware

- Standard Commercial Power - 208-240VAC @ 30A 1 Phase with dedicated 40A 2-pole breaker per J1772 port (no split power) and single phase integrated meter delivers 7.2kW output.
- Fully Certified - Meets NEC and SAE standards; tested by UL, cUL and certified by ETL.
- Indoor/Outdoor Rated - NEMR 3 R -30^{C} to +50^{C} (-22 to +122F) and Surge Protection at 6Kv at 3Ka.

Station Management Software

- Cloud based/Web enabled – no impact to station owners' servers. Owners access through Connect Web Portal through a dedicated station communication link (Ethernet, WIFI, Cellular). No FEES; Upfront Cost.
- Remote Station management - helps identify and correct service issue over the air and better pinpoint mechanical issues (contactors, cord sets, electrical components, communications systems).
- Open Development – 3rd Party Developers can supply best in class APPs through GE's Open APIs. Currently PayPal, Pay With PlugShare (mobile payments) and myEVRoute (Fully Managed Stations) are offered.

GE WattStation Pedestal Full Featured

The only networked charging station with a unique retractable cord feature

LED Display Panel
-Icons indicate charging status

Access Control
-RFID secure access swipe point
-QR code for credit card payment

Protected Plug Holder
-Easy to access
-Mechanical connection

Retractable Power Cord
-Mechanized cord system
-15’ 6” long

Base to accept power and fasten to concrete

LED Ring Charger Status

WHITE	Ready to charge
AMBER	Connected by not charging
GREEN	Charging
RED	Fault

Access Panel
(on rear)
-Lock and key access

current powered by GE

WattStation Wall Mount

Feature Summary

Timeless Styling

Weatherized (rain, snow)
- Outdoor / Indoor NEMA-3R

Network Capable
- Contains same software functionality as WattStation Pedestal
- Customer selects communication platform (CAT5, cellular*)

Cord Wraps around Unit
- Cord is 20’, highly flexible for easy use and storage

Wall Mounted or Pole Mounted Options
- Affixes to studs/drywall, cement, etc., using common household tools
- Key lock secures unit to wall for theft prevention

Plug-in and Hardwired Versions
- Plug for 240VAC recepticle (NEMA-6-50)

current powered by GE

* Annual cellular network access fee

GE DuraStation Dual Port Pedestal Station

LED Bar Charger Status: Green = available

VFD Screen: Charge time, Volts, Amps, kWh used

RFID Card Access: fleet vehicle access

Plug Holder: keeps cord in place when not in use

Cord Management Reel: each cord has its own reel

Access Panel for easy field service

Optional Custom Brand Wrap

Pedestal Mounted: available in single and dual charge port configurations

imagination at work

Station Access Control Features: RFID Card and QR Code READER

Station access control using GE **RFID card**

Station Access through **QR Code Reader**

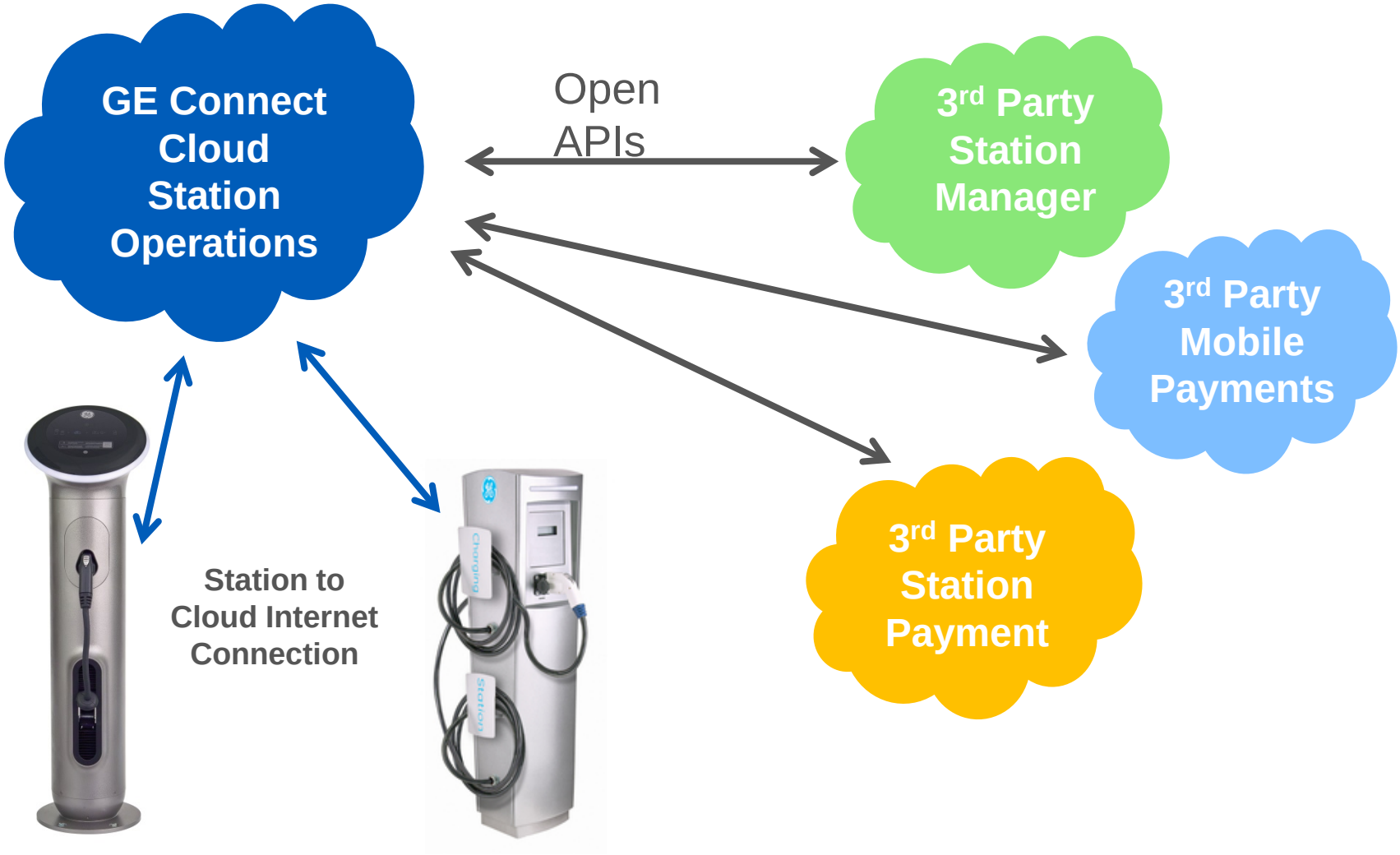
GE Level 2 Residential Charging Stations

- Plug and Play Level 2 charging stations
- Commercial Grade NEMA 3R rated -22 to +122F
- 208-240V/30 Amp (2 pole 40 Amp breaker)
- 18-20 foot charge cord
- Top up or Overnight charging
- No networking, access or payment capabilities.

current
powered by GE

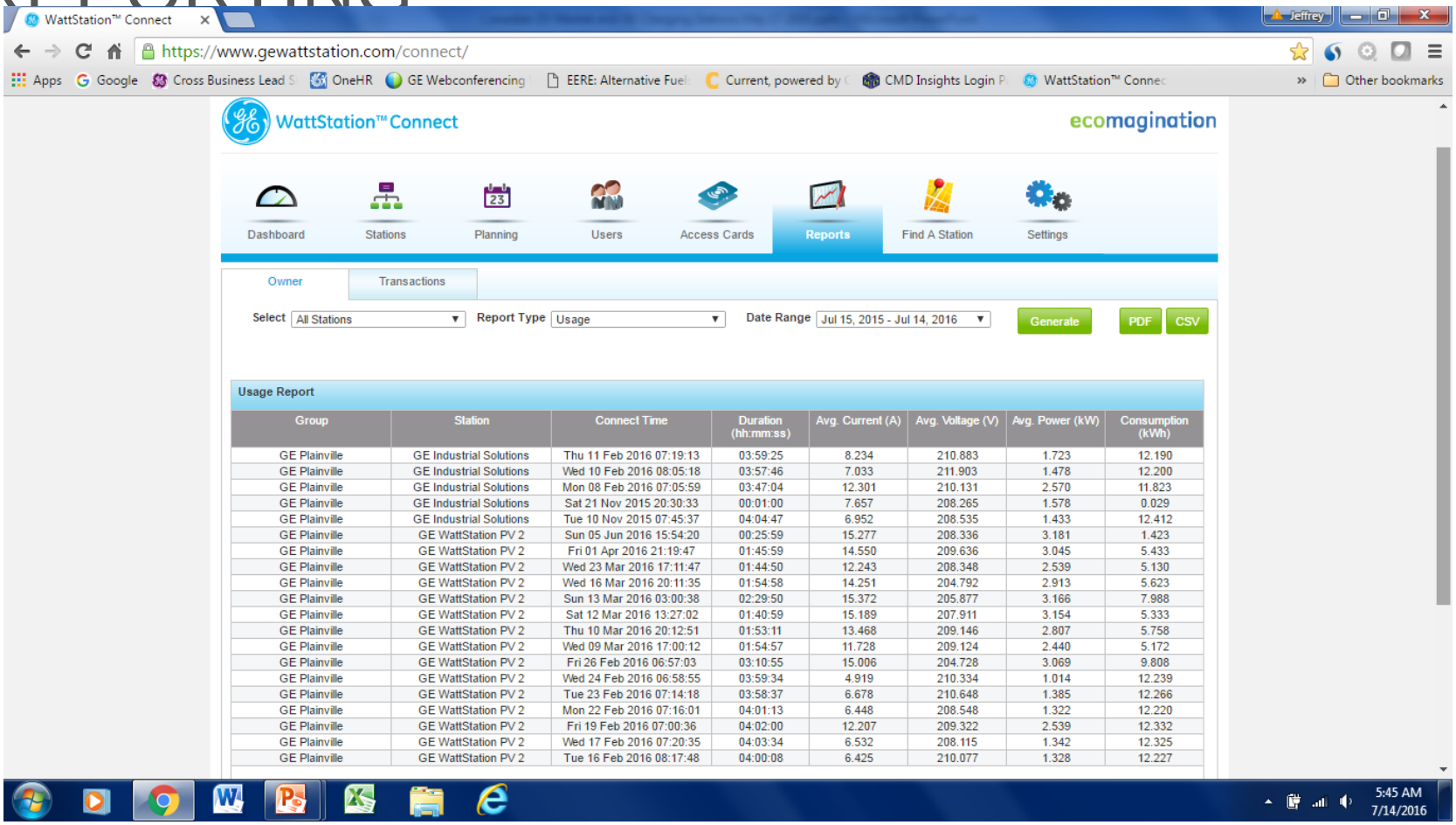
NETWORKED STATION MANAGEMENT

Cloud Based. Web Enabled. Open APIs. Future Proof.



current powered by GE

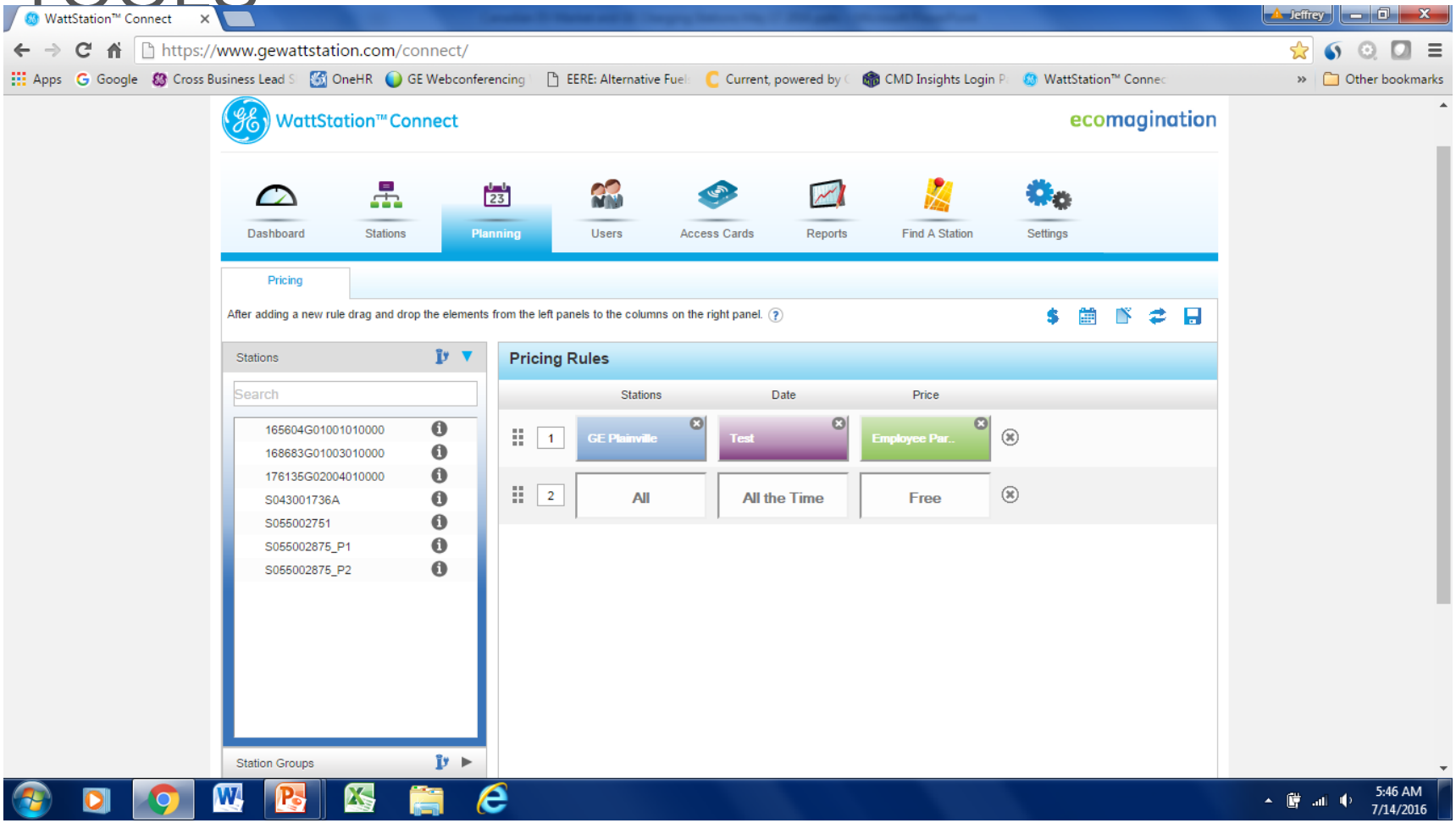
WATTSTATION CONNECT – USAGE REPORTING



Group	Station	Connect Time	Duration (hh:mm:ss)	Avg. Current (A)	Avg. Voltage (V)	Avg. Power (kW)	Consumption (kWh)
GE Plainville	GE Industrial Solutions	Thu 11 Feb 2016 07:19:13	03:59:25	8.234	210.883	1.723	12.190
GE Plainville	GE Industrial Solutions	Wed 10 Feb 2016 08:05:18	03:57:46	7.033	211.903	1.478	12.200
GE Plainville	GE Industrial Solutions	Mon 08 Feb 2016 07:05:59	03:47:04	12.301	210.131	2.570	11.823
GE Plainville	GE Industrial Solutions	Sat 21 Nov 2015 20:30:33	00:01:00	7.657	208.265	1.578	0.029
GE Plainville	GE Industrial Solutions	Tue 10 Nov 2015 07:45:37	04:04:47	6.952	208.535	1.433	12.412
GE Plainville	GE WattStation PV 2	Sun 05 Jun 2016 15:54:20	00:25:59	15.277	208.336	3.181	1.423
GE Plainville	GE WattStation PV 2	Fri 01 Apr 2016 21:19:47	01:45:59	14.550	209.636	3.045	5.433
GE Plainville	GE WattStation PV 2	Wed 23 Mar 2016 17:11:47	01:44:50	12.243	208.348	2.539	5.130
GE Plainville	GE WattStation PV 2	Wed 16 Mar 2016 20:11:35	01:54:58	14.251	204.792	2.913	5.623
GE Plainville	GE WattStation PV 2	Sun 13 Mar 2016 03:00:38	02:29:50	15.372	205.877	3.166	7.988
GE Plainville	GE WattStation PV 2	Sat 12 Mar 2016 13:27:02	01:40:59	15.189	207.911	3.154	5.333
GE Plainville	GE WattStation PV 2	Thu 10 Mar 2016 20:12:51	01:53:11	13.468	209.146	2.807	5.758
GE Plainville	GE WattStation PV 2	Wed 09 Mar 2016 17:00:12	01:54:57	11.728	209.124	2.440	5.172
GE Plainville	GE WattStation PV 2	Fri 26 Feb 2016 06:57:03	03:10:55	15.006	204.728	3.069	9.808
GE Plainville	GE WattStation PV 2	Wed 24 Feb 2016 06:58:55	03:59:34	4.919	210.334	1.014	12.239
GE Plainville	GE WattStation PV 2	Tue 23 Feb 2016 07:14:18	03:58:37	6.678	210.648	1.385	12.266
GE Plainville	GE WattStation PV 2	Mon 22 Feb 2016 07:16:01	04:01:13	6.448	208.548	1.322	12.220
GE Plainville	GE WattStation PV 2	Fri 19 Feb 2016 07:00:36	04:02:00	12.207	209.322	2.539	12.332
GE Plainville	GE WattStation PV 2	Wed 17 Feb 2016 07:20:35	04:03:34	6.532	208.115	1.342	12.325
GE Plainville	GE WattStation PV 2	Tue 16 Feb 2016 08:17:48	04:00:08	6.425	210.077	1.328	12.227

current powered by GE

WATTSTATION CONNECT – PRICING TOOLS



current powered by GE

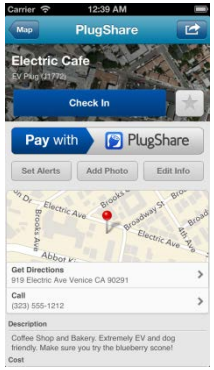
GE Station Payment Options for Drivers

Pay with PayPal

- Station owner sets up a PayPal account for their charging stations – programming option in Connect
- Station user pays for station usage from their PayPal Account using the “Pay with PayPal” on the Wattstation Connect Mobile App
- Station owner receives revenue less merchant fees (10.4% of revenue plus $.30 micropayment charge (USD))

Pay with PlugShare

- Station owner sets up PayWithPlugShare account for their charging stations – GE programs with PlugShare
- Station user pays for station usage through their PlugShare app which opens Pay With PlugShare mobile payment window
- Station owner receives revenue less merchant fees (2.9% of revenue plus $.30 micropayment charge (USD))



current powered by GE

GE EV Charging Stations Summary

- Charges 1-2 EVs simultaneously. Both vehicles receive up to 7.2 kW/hour.
- Every vehicle can accept std. Level 2 J1772 Connector (Tesla has adaptor).
- 208-240V /2-pole 40 AMP service with dedicated circuits for each connector.
- Cloud based, Web Enabled WattStation Connect provides wide range of reports on usage, users, energy use and supports 3rd party applications.
- Stations can be set to take payment via PayPal (QR code) or PlugShare (App and station QR code).
- Dedicated NA based EV support team (855-GE-EVSE) 8AM-10PM (Eastern).
- Three year parts warranty. Optional 5 year parts warranty
- All GE Charging Stations assembled at GE Mebane NC manufacturing plant.

current

powered by GE

What is Current Powered by GE?

Produce

Energy through Solar and Onsite Power

Reduce

Energy Needs through LED and Intelligent Environments

Shift

Consumption via Energy Storage and Electric Vehicle Charging

Helping Customers succeed by redefining how energy technologies CAN and SHOULD be used to reduce energy and leverage software and advanced data analytics to optimize for best business outcomes - sustainability, reliability, resiliency and more

Data Analytics

Load Mgt.

current
powered by GE

Jeff Cohen
North America Sales Leader
Electric Vehicle Infrastructure
Jeffrey1.cohen@ge.com
(470) 233-2609