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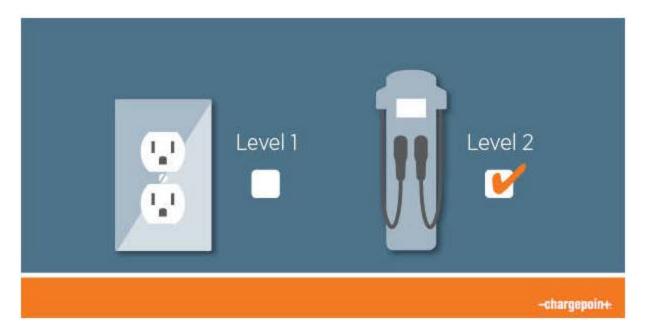
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The Business of Charging | 3/23/2017

Level Up Your EV Charging Knowledge

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About 25% of vehicles sold are expected to have electric engines <u>by 2025</u>. Around the same time, battery costs will <u>intersect</u> with conventional vehicle costs, accelerating electric vehicle (E development. As a result, EV charging is becoming an important amenity for businesses to offer customers, employees and residents.

EV charging options range from plugging into a regular wall outlet to investing in networked ch stations. All the options can be confusing, but we're here to help you understand what different charging levels and networked charging options mean for your organization. Read on for a crasi



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electric vehicle is different from refueling a gas vehicle. Instead of going to a gas station when t is empty, EV drivers charge wherever they park, adding range at home, at work, around town or town. Known as the "top up" model, this unique approach means that EV charging can happen anywhere, making it a good choice for all kinds of businesses.

"Level Up" for Enough Range

Comparing Level 1 and Level 2 charging shows how much better Level 2 is for the EV driver expenses.

	Level 1 Charging	Level 2 Charging
Electric and Power Specifications	120 Volt, 20 Amp circuit 1.4 kW	208 – 240 Volt, 40 An circuit* 6.2 – 7.6 kW**
Time to Fully Charge an EV with a 100-mile Battery	17 - 25 hours	4 - 5 hours
Drivers Served per Station per Day	1	3 – 4 or more

^{*}For overcurrent protection, the National Electrical Code (NEC) requires conductors and circuit protection to be sized for continuous duty and have a rating for at least 125% of the maximum load. EV charging loads are considered to be continuous.

EV drivers' desire for reasonable range makes Level 2 charging preferable to Level 1 charging fo organizations. Level 2 charging adds about 25 miles of Range Per Hour (RPH), while Level 1 charge only adds about 4 miles of Range Per Hour. Because it takes nearly a full day to charge an EV, Legiust too slow for the amount of time that most drivers spend at a typical business, so it won't at them. Level 2 charging also allows an organization to serve many more drivers in a day, bringing more customers.

"Networked Level 2 charging stations offer features that allow station owners to carefully balance throughput (cars charged) and driver satisfaction (miles per charge)."

- Level 1 Versus Level 2 Charging: Making the Right Choice

^{**}The Level 2 standard supports higher charging rates, but stations and cars that support it are not widely available.



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how much it costs drivers to charge. You can generate reports on who uses networked stations how often, creating a clear picture of how EV charging is benefiting your business. Networked s make economic sense because smart power management can share electrical capacity, avoiding expensive infrastructure upgrades. As a final bonus, networked stations can update with new so remotely over the air, so they're always up to date with the latest features for you and your driven.

By contrast, Level 1 stations are typically not connected to a network, so drivers have no way to them, and station owners have no way to remotely monitor, manage, repair or update them.

The information in this post should get you off to a good start, but there's still much more to lea about EV charging. Dive into the details in our new guide: **Level 1 Versus Level 2 Charging: Maki Right Choice.**

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