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Not all charging stations are equal: from **Level 1** (for special applications) up to **Levels 2** (routine applications) and **Level 3** (road tripping), here's what you need to know to pick the right charging station for your property and drivers.

The charge level indicates how long it takes to charge an electric vehicle (EV).

If you've decided to "level up" your property with EV charging stations, you've made an excellent choice. Commercial properties considering electric vehicle (EV) charging stations are future-proofing while offering an attractive feature to patrons and tenants. Even better, installing charging stations can be a snap.

But what *level* of charging station is right for your property? Different charging levels have emerged to meet a variety of needs and use-case scenarios. Most commercial properties favor Level 2 charging for its excellent balance of benefits versus costs, but before you make that long-term investment, make sure you understand each level.

The "gas station experience" does not apply to the way people charge electric vehicles.

With gas vehicles, we're used to going to a gas station and standing there for a few minutes while we fill up the tank. With electric vehicles, it's much different. Now drivers "fuel" their vehicle while the car is parked and they go do something *else* (like work or sleep).

In other words, "fueling" no longer requires the driver's presence, freeing them for other tasks and obligations. The question ceases to be "how long must I stand here?" and becomes "can I 'fuel' enough in the time my task will take?" That means properties installing charging stations must consider which level will provide the power and speed needed for the time their customers or tenants will have.

EV Charging Level Comparison

	Level 1	Level 2	Level 3 (DC Fast Charging)
Power	1.4kW	7kW	50kW
Source	Standard outlet	Special Charging Station	
Charge Rate (Est.)	Est. 5 miles/hour	25 miles/hour	200 miles/hour
Optimal Use-Case	Occasional Use	Everyday Use	Road Tripping

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Level 2 rules for everyday use.

"Sometimes people think if Level 2 is good, then Level 3 must be better," says Mark Pastrone, Vice President of Business Development at SemaConnect, "but that's not an accurate way of understanding charging."

Remember, EV drivers do not remain with the car while it charges, which means a property selecting an EV charging station does not *need* to replicate the gas station experience (which isn't even possible today). Consequently, the importance of "speed" as a factor diminishes *unless* your property finds itself in a special usecase. The most important question is not about speed at all; it's about use-case scenarios and driver needs.

Which level best meets the needs of the drivers who will be visiting your property?

"Most EV drivers only need about 20 miles or so of range to 'top-off' the battery when running errands or commuting to work," says Pastrone.

Level 2 can easily handle such needs in the time drivers will spend at the destination property. More to the point, it is typically the most cost-efficient solution. Level 3 – or DC Fast Charge (DCFC) – stations definitely have their place, but they have other considerations compared to Level 2 charging for most commercial scenarios. Only about half of the electric vehicles on the road are compatible with DCFC. In addition, DCFC stations are much, much more expensive to purchase, install, and operate.

When might a DCFC station be right for your property?

DCFC charging stations can cost tens of thousands of dollars to buy and install; and these units require the property to supply sufficient electrical capacity, which may necessitate infrastructure upgrades.

Plus, DCFC stations will likely increase property power bills, although this aspect can vary. However, DCFC is ideal for applications that require shorter charge times. For example:

- **Road tripping**: If your business or property is a popular stop along highway and interstate routes, a DCFC charger provides a valuable resource while also encouraging these long-distance drivers to visit *you* as opposed to other stops.
- Fleets: If you own a fleet of electric vehicles that are used throughout the day for business purposes, having a fast-charge option may be effective in keeping your fleet fully charged.
- **Car sharing**: Short-term (often hourly) car rentals represent a growing business model in metro areas throughout the U.S. DCFC stations can quickly charge these vehicles between rental sessions.

Ultimately, EV charging is really about meeting the range needs of EV drivers in a way that aligns with their habits while remaining cost-effective for the property.

For more information, please contact SemaConnect.



SemaConnect is the leading provider of electric vehicle amenities to the North American commercial and residential property market. With SemaConnect as your EV partner, you don't have to worry about station management. As a proven leader in serving the Class A property market, SemaConnect manages all aspects of your EV amenities so you can make the most of your visitors' experience.

1-800-663-5633 <u>www.semaconnect.com</u> info@semaconnect.com 4961 Tesla Drive Bowie, MD 20715