

EV CHARGING STATIONS

Green Ribbon Advisory Committee

October 2015

CHARGING UP AT WORK

Would you like to promote environmental stewardship and sustainability at your workplace? One great way to do so is by encouraging the use of electric vehicles for personal and work related transportation by employees. Top companies like Google and Microsoft provide free EV charging stations at their campuses in order to help incentivize employees to purchase electric vehicles. These and other likeminded companies are making waves by moving in a sustainable direction – now you can too.

To learn more about the benefits of having EV charging stations at your workplace, visit the Palmetto State Clean Fuels Coalition at: <http://www.palmettocleanfuels.org/>

If you are ready to make the investment in an EV charging station on your premises, you will need to learn about the types of EV charging stations. Taking a look at the three types of charging stations featured below will help you decide which the best fit is for your company.

Level 1

Power Supply: 120 V @ 12-20 amps
Energy Use: 1-1.5 kW/hr
Time to charge: 9 hrs (40 miles)
Cost: \$10-\$1000

Level 1 charging stations are essentially standard power outlets. This type of charging station is the least expensive and works well for a daily commute of approximately 40 miles, charging overnight at home.



Level 2

Power Supply: 240 V @ 30-80 amps
Energy Use: 3-7 kW/hr
Time to charge: 3 hrs (40 miles)
Cost: \$500-\$6,000

Level 2 charging stations are slightly more expensive than their Level 1 counterparts, but provide substantially more charging power. Offers over 10 miles range per hour of charging.



Level 3

Power Supply: up to 480-600V @ 100 amps
Energy Use: 75-100 kW/hr
Time to charge: 10 minutes (40 miles)
Cost: >\$15,000 + installation

Level 3 charging stations are the most expensive, but provide a very powerful and quick charge. Up to 40 miles of range is provided by every 10 minutes of charging.



To find the locations of existing chargers in Greenville, visit: <http://www.greenvillesc.gov/echargers>

For a step-by-step plan to implement EV charging in your workplace, visit:

<http://www.energyinnovationcorridor.com/page/wp-content/uploads/2011/01/Charging-while-you-work-web.pdf>