

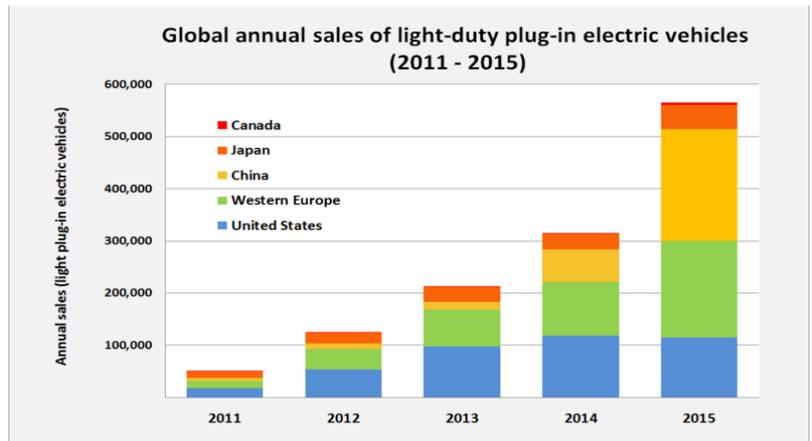
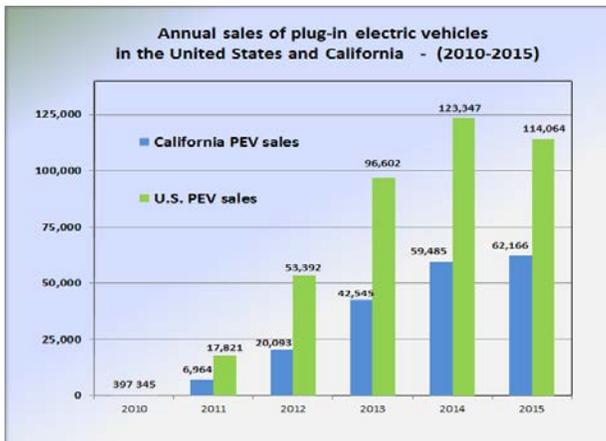


Engineering & Property Management Sustainability Newsletter

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IN THIS ISSUE: Getting Charged about the Thomas Ave Parking Lot

As prices continue to fall and Electric Vehicle (EV) battery technologies improve, it is anticipated that EV sales will continue to increase. The two graphs below from Wikipedia indicate that the EVs and plug-in EV's are not only rising in the United States, but also worldwide especially in China and Europe. However within the United States, California continues to lead market share of EV's.



In an effort to promote widespread adoption of EV's and to make Charlotte EV ready, the City of Charlotte is actively exploring creative ways to promote the adoption of EV's and installing the associated charging infrastructure for them.

In partnership with Nissan Motors and [Brightfield Transportation Solutions](#), the Thomas Ave Parking lot located off Central Ave was selected to house a DC Rapid Charge electric vehicle (EV) charging station. This Partnership is aimed at preparing Charlotte for the future influx of EV's. This partnership helps Charlotte create a sustainable alternative fuel network. The Thomas Ave parking lot located off Central Ave is owned and operated by the City of Charlotte, but the station was installed by and operated by Brightfield.

The installation of the Thomas Ave parking lot rapid charger is part of a program called the Mountains to Sea Initiative. The [NC Plug-in Electric Vehicle Task Force](#) initiative is to create an EV charging network of fast and reliable chargers with the goal of providing an EV driver the ability to travel across a state. Eventually the goal of the DOT and DOE is to have a national charging system in place to promote and encourage the adoption of electric vehicles.

The DC Rapid Charger has the capability of charging an EV in 15 to 30 minutes. This is significantly faster than a level 2 EV charger which recharges an EV in 2-4 hours. The City of Charlotte owns and operates currently 68 public level 2 chargers. This DC Fast Charger will be the 2nd unit installed in the City of Charlotte. The other unit is at the AAA facility on South Blvd and is privately owned and operated.

Charging times are predominantly dependent upon the type and size battery of the EV being charged. Larger EV's with bigger batteries may require slightly longer charging times. Smart phone applications enable EV drivers to locate, determine status and availability of EV chargers including the new Thomas Ave DC Rapid Charger. For a list of all the current EV's in the market click [HERE](#)