GEOTAB
Energy

Understand the impact of electric vehicle charging load on the electric grid

Manage demand from system-wide EV charging

We aggregate electric vehicle charging load data from across utility service territories to help electric utility demand managers understand, plan for and manage the integration of EV charging with the grid.

Data driven systems, designed with no blind-spots in your analytics.

Assess the capacity and reliability of electric vehicles as an energy resource.

Understand the impact of electric vehicle charging load on generation equipment as well as transmission and distribution networks.
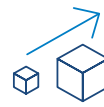
Maximize program enrollment:

+ Compatible with all popular makes and models of electric vehicles.
+ Streamlined participant registration.

Determine the costs / benefits of an electric vehicle charging load management program.

Scale your existing programs with dedicated program managers who offer setup, operation and reporting support.

We help utilities understand, plan and manage the integration of electric vehicle charging with the grid.

Electric vehicle adoption is catching on and world-wide we are witnessing a transition from internal combustion vehicles to fully electric alternatives. This transition is for the better, but it does come with new challenges and new opportunities for those willing to help solve them. One such challenge is that unmanaged electric vehicle charging load can negatively impact the electric grid. Many electric networks simply weren't built for the demand EV charging places on them.

There is however a great opportunity for utility companies. By integrating electric vehicles with the grid, electricity demand managers stand to gain additional energy resources which can be deployed to stabilize system wide energy demand, increase utilization of baseline or sustainable generation and mitigate the risk of EV charging on transmission and distribution networks.

The Geotab Energy advantage

Work with experts

Work with electric vehicle and demand management industry experts to build a business case for running an EV charging load management program.

Access data models

Project the financial and system capacity benefit using our proven models prior to launching a program.

Detailed reporting

Reduce guesswork with a complete understanding of the impact of charging load on generation, transmission and distribution networks.

Engaging programs

Run consumer energy programs that increase customer advocacy and maximize participation by rewarding customer behavior.

Dedicated service

Have confidence knowing that our professional services team ensures our customers programs start and run smoothly, making the integration of a new type of service straightforward.

Powerful analytics

Conduct ongoing observation and measurement into the changing characteristics of ev charging load on the electric grid as new technologies and system resources come online.

SmartCharge Rewards®

We think electric vehicle drivers are part of the solution, not part of the problem. SmartCharge Rewards® enhances the benefits of driving an electric vehicle, by rewarding drivers for doing the right thing and changing when they charge. We help in one or more of the following ways;

+ Lowering the environmental impact of EV drivers even further by helping them charge when electricity is more sustainable.

+ Managing the cost of charging for EV drivers by helping them charge when electricity costs less.

+ Educating EV drivers to help them do the right thing like helping to stabilize the grid, keeping electricity rates stable for everyone.

System-wide EV load profiling

Aggregate data from more vehicles, regardless of model or charging method, in real-time for the most accurate understanding of the impact of EV charging load across a service territory.

+ Data is collected from the vehicle itself, removing the requirement of secondary metering or networked charging equipment.

+ Compatibility with all major EV makes and models allows for an accurate perspective of all EV charging, not just the few which are being monitored.

+ Monitor all electric vehicle charging, no matter the type or location.

  • Networked charging stations only provide data on a small portion of EV charging.Home, workplace, public charging or extension cord – we track them all.

+ Profiling data can be used to complement existing data sources, such as data from smart meters.

+ Reporting dashboards visualize data so that metrics, such as EV charging load contribution with system peak and total charging load, can be understood at a glance.

+ Our program managers love deriving understanding from data. We're here to help you dig into your vehicle charging data sets.

Request a demo at
Geotab.com/energy/contact

GEOTAB
Energy

www.geotab.com/energy
energy@geotab.com

f   Geotab

🐦 @GEOTAB

▶ MyGeotab