



Municipality Guide to Working with EV Charging Networks

WHAT IS THE ROLE OF AN EV CHARGING NETWORK?

EV Charging Networks are businesses that install and maintain a system of EV chargers for hosts. The services that they provide can range from simply installing charging stations to maintaining and managing an interconnected system through software. There are many payment structures between hosts and EV charging networks that can include surcharge fees, revenue generation through advertisement, or subscription fees.

WHAT FEATURES DO THEY OFER?

Networked chargers are chargers that are interconnected through software. They allow for monitoring, customer support, integrated payment, and energy supply management usually in return for some sort of cost.

WHO SHOULD I CONSULT?

Consult with your public works department if you are considering installing EV chargers on township property. Your electric service provider and PennDOT can also connect you with valuable resources.

WHAT RISKS SHOULD I BE AWARE OF?

Be mindful of different charging standards.

Consider the costs of installation and maintenance.

Technology changes quickly, consider ways you can future-proof your charging stations.

PROPRIETARY VS. OPEN SOURCE SOFTWARE?

Networked charging stations provide various "smart" features to users and operators. Some EV charging networks have a core product that is proprietary software which manages the chargers that they install.

Proprietary software can provide powerful features that are beneficial to hosts, however, hosts be aware of open source networking options.

Open Charge Point Protocol (OCPP) allows charging stations to use different networks when providing service to customers. This can make it easier for hosts to switch networks should they want to find a new provider. It can also protect a host against added costs of switching providers in the future.

RESOURCES FOR MORE INFORMATION

CA - Electric Vehicle Charger Selection Guide:

https://afdc.energy.gov/files/u/publication/EV_Charger_Selection_Guide_2018-01-112.pdf

Federal and State Laws and Incentives:

<https://afdc.energy.gov/laws>

North Jersey Transportation Planning Authority - Alternative Fuel Vehicle Readiness: A Guidebook for Municipalities:

<https://nj.gov/dep/drivegreen/AlternativeFuelVehicle.pdf>

U.S. Department of Energy - Costs Associated with Non-Residential Electric Vehicle Supply Equipment:

https://afdc.energy.gov/files/u/publication/evse_cost_report_2015.pdf

U.S. Department of Energy - A Guide to the Lessons Learned from the Clean Cities Community Electric Vehicle Readiness Projects:

https://afdc.energy.gov/files/u/publication/guide_ev_projects.pdf

ORGANIZATIONS THAT CAN BE OF HELP

U.S. Department of Energy Alternative Fuels Data Center:

<https://afdc.energy.gov/fuels/electricity.html>

Electrification Coalition: <https://www.electrificationcoalition.org/work/state-ev-policy/pennsylvania-ev-policy/>

Pittsburgh Region Clean Cities: Rick Price, Executive Director - rprice5705@aol.com

Eastern Pennsylvania Alliance for Clean Transportation:

Tony Bandiero, Executive Director, tfbandiero@ep-act.org

PADEP: <https://www.dep.pa.gov/Pages/default.aspx>

MPOs: <https://www.penndot.pa.gov/ProjectAndPrograms/Planning/Pages/MPO-and-RPO-Contact-List.aspx>

PSATS: <https://www.psats.org/>

Pennsylvania Municipal League: <https://www.pml.org/>

Pennsylvania Association of Boroughs: <https://boroughs.org/>