

EV Spot Network

ZEF Energy Project Case Study



Community EV Charging Network

Saint Paul & Minneapolis, MN

The EV Spot Network is a series of renewably-powered curbside EV Spot Charging locations within Saint Paul and Minneapolis that offer public access to the new all-electric Evie Carshare service and the EV Spot electric charging stations.



70

EV Charging Hubs



280

Level 2 Plugs



26

DCFC Plugs

- ▶ Evie Car Share with over 150 EVs deployed
- ▶ Payment integration across charging & parking
- ▶ Workforce training program for EV charging infrastructure installation
- ▶ Collaboration with the 13+ Partners



ZEF Energy Partnership

ZEF Energy was able to fulfil a number of unique needs particular to this project to help achieve greater visibility, ease of use for drivers, and fluid collaboration across a rich collection of partners.

- ▶ EV Spot Network branding is seen across Saint Paul & Minneapolis
- ▶ Parking system integrations to support streamlined paying for drivers
- ▶ Configurable messaging and notifications for drivers
- ▶ Fluid data sharing across partners to simplify car share management
- ▶ Service Agreements upfront that convert to municipal maintenance with training support from ZEF



Functionality Deep Dive

The ZEFNET Pro, ZEF Energy's flagship dual-plug, Level 2 chargers is used across the 70 charging hubs. Its durability, brand-ability, and stature made it a perfect fit for the project.

- ▶ Credit card + RFID + NFC payment on all chargers
- ▶ Driver-facing screen to front instructions to drivers in multiple languages
- ▶ LED indicators for each plug to make visibility easy
- ▶ Service rated panel optional for easier power switching during service

Community Benefits

ZEF Energy partnered to deliver one of the largest, municipal, public EV charging deployments in the nation. The initiative is helping both Saint Paul and Minneapolis advance their clean energy and climate goals by lowering transportation emissions and offering while also making more transit options accessible to all residents.

ZEF Energy also worked closely with the City of Saint Paul, Renewable Energy Partners, and Hennepin County to deliver the first EV charging workforce training opportunities in Minnesota. This curriculum, developed and delivered by Renewable Energy Partners with training support from ZEF Energy, helped to train and expose underserved community members to EVs and the electrical contractor industry. Over two years, more 25 trainees participated in this program.



Partners

- ▶ City of Saint Paul
- ▶ City of Minneapolis
- ▶ HOURCAR
- ▶ Xcel Energy
- ▶ East Metro Strong
- ▶ U.S. Department of Energy
- ▶ 3M
- ▶ Metropolitan Council
- ▶ The McKnight Foundation
- ▶ American Lung Association
- ▶ American Cities Climate Challenge
- ▶ The Energy Foundation
- ▶ The Minnesota Pollution Control Agency

ABOUT ZEF ENERGY

ZEF Energy offers smart, vertically-integrated Electric Vehicle (EV) charging solutions. Our products are holistically packaged with a focus on advanced control, utility-grade metering, driver billing and reporting. Our products include: Level 2 & DC Fast Chargers that are 'Buy America' compliant, fully integrated with ZEFNET, our power management and network software, and all commercial products include our 5-Year Advantage™, the industry's best warranty, support and software package.