IKEA Joliet EV Charger Project Description

IKEA seeks to install Electric Vehicle (EV) charging at its facility located at 650 Emerald Drive, Joliet, IL 60433. These chargers will support 3 different use cases; Co-worker charging, Final Mile Delivery Fleet charging and Heavy Duty vehicle charging.

Co-Worker Charging

IKEA has a goal to reduce our Co-worker emissions by 50% by 2030. Providing EV charging at all our stores and distribution centers is a big part of that. We intend to install 4 Level 2 chargers at the facility that will be open to the public including all co-workers. The chargers we have chosen will be the CT4000 series from ChargePoint.

Final Mile Fleet

We also have a goal of providing all our customers within 30 miles of a store or facility with zero emission home delivery. For this we need to provide charging for our final mile delivery fleets. We will install 4 of the ChargePoint CP6000 series chargers that are activated by RFID cards for fleet use. This will enable 4 electric delivery vehicles to charge overnight to perform deliveries each day from the facility.

Heavy Duty Charging

IKEA will purchase 4 electric yard trucks to move shipping containers around our facility. These will need to have charging available at all times. For this we plan to install 4 charging heads for ChargePoint's Express Plus fast charging system. The Express Plus can distribute up to 400kWh of electricity for a single vehicle. We will also make these chargers available for our supplier vehicles; those trucks delivering or picking up containers from our facility. This can effectively double the operating range of these vehicles. We've already talked to ChargePoint about designing the chargers in a way that allows larger vehicles to charge regardless of the location of their charging port.

Summary

In sum, we plan to deploy 4 co-worker chargers, 4 fleet chargers, and 4 HD yard truck and supplier chargers at Joliet. The location of these chargers will be in the southeast corner of the facility, which is shown below. Note the nearby utility connection as well.

L2 Chargers for Co-workers

L2 Chargers for Fleet

Fast Chargers for yard trucks and supplier vehicles

L2 Chargers for Co-workers

L2 Chargers for Fleet

Fast Chargers for yard trucks and supplier vehicles