

BOULDER, COLORADO

NATION-LEADING COMMITMENT TO GREEN ENERGY

The City of Boulder, Colorado has a long standing commitment to being one of the leading Green Cities in the USA – they are currently the only major American city to have two fully electric fire engines.

2025 started off in exciting fashion for the city: Boulder Fire Chief Michael Calderazzo oversaw the grand opening of Fire Station 3 on January 25th, which featured Rosenbauer's electric RTX-1 fire engine.

Fire Station 3 is not, however, the only fire station that needed to power an electric fire engine in the City of Boulder, and the city was faced with a problem many municipalities grapple with: their new facility uses 480V Wye architecture to supply power to their charger, but their older station runs off 208V architecture.



THE PROBLEM

Different Inputs, but the Same Charger

Many city governments are unable to provide level 3 charging services to fully electric emergency response vehicles because of this mismatch in existing electrical infrastructure. Cities are finding themselves unable to install level 3 chargers in multiple locations with varying electrical inputs – such as 208V at one fire station and 480V Wye in another – without derating their products or waiting years for transformers to be installed.

The hurdles to purchasing and installing level 3 charging stations for local governments are quite high: for many, it's not an option to mix and match different chargers around the city based on the electrical grid configurations of different installation sites. Cities like Boulder, in other words, need charging solutions that allow them to place the same charger in their older stations and their brand-new ones, no matter what the grid is supplying underneath those stations.





THE SOLUTION

Power Innovations International's Level 3 Mobile DC Chargers

Power Innovations International (Pii) has designed a line of Level 3 EV chargers that are expressly engineered to solve the problem faced by Boulder and countless other local governments. Pii's charging solutions are input agnostic, coming with a series of field-configurable busbars that allow the chargers to be configured to accept 208V, 280V, and 480V in minutes.

With Pii's mobile DC quick chargers, the City of Boulder no longer had to choose between multiple solutions for their two fire stations with wildly different power needs – each station now has its own Pii charger supplying power to its fully electric truck, allowing Boulder to further its commitment to green solutions without needing to build a brand-new station every time they want to electrify a vehicle.

The future of EV charging is dependent on places like Boulder, where Level 3 charging doesn't need to be held back by a lack of three-phase power any more. **No 480V? No problem!**

