FSA24-PWR3.0: Electric Vehicle (EV) Charging, Power Stations, Equipment & Software

FSA Base Specifications

All bid items shall be built to manufacturer base specifications for the item or model number indicated and shall include all standard manufacturer equipment unless otherwise specified. Bid items offered under this contract are listed in the following item groups:

Level 2 Chargers

Level 2 equipment offers higher-rate AC charging through 240V (in residential applications) or 208V (in commercial applications) electrical service, and is common for home, workplace, and public charging. Level 2 chargers can charge a BEV to 80 percent from empty in 4-10 hours and a PHEV in 1-2 hours. Typical power output for Level 2 equipment is 7kW-19kW.

Level 3 Chargers

Level 3 or direct current fast charging (DCFC) equipment offers rapid charging along heavy-traffic corridors at installed stations. DCFC equipment can charge a BEV to 80 percent in 20 minutes to 1 hour. Most PHEVs currently on the market do not work with fast chargers. Typical power output for Level 3 equipment is 50kW-350kW.

Software and Equipment

Software serves as the operating system for EV charging stations. Software may also be offered which provides enhanced data analytics and telematics capabilities to meet end-user needs. Software offerings may also include an integration component where compatibility is needed with existing charging infrastructure and software.

Equipment may be needed by the end-user to meet infrastructure or charging system needs. Equipment offered under this item group should be limited to stand-alone items that are not offered as an optional component, upgrade, or downgrade to a bid item.

Portable/Mobile Charging & Power Stations

Non-stationary EV charging equipment that includes a power source that can be moved from location to location to provide an equivalent of Level 2 or Level 3 charging. Power source technology can be in the form of rechargeable battery packs, internal combustion engine powered generators, solar collectors, fuel cells or any combination of these technologies.