

MOBILE EV CHARGING SCOPE OF WORK

SMART, The Transit Department of the City of Wilsonville, is seeking proposals for a mobile, EV charging unit.

Intended use:

The City owns and operates three battery electric buses. These vehicles are routinely charged through depot chargers installed at the transit yard. The existing chargers are not supported by a backup generator. We wish to purchase a charging unit to be deployed in the event of a power outage, or other interruption of charging availability. We are looking for rechargeable energy storage which can then be used to charge vehicles, in the absence of an operational depot charger.

Desired characteristics:

- Equipment to be trailer mounted, towable with a 1 ton pickup.
- Unit should be capable of *accepting* a charge from both Level 2 and DC fast chargers.
- Charging output should be minimum Level 2. DC fast charging would be desired, but not a requirement.
- The proposed equipment will be used only for fleet vehicles. Therefore, no payment acceptance method is needed.
- Charging output is of high importance. Charging speed is less of a concern, while available energy on board is of greater interest.
- While units equipped with a single charging output will be considered, 2-3 charging outputs would be ideal.