



COUNTY OF NEVADA
COMMUNITY DEVELOPMENT AGENCY
DEPARTMENT OF PUBLIC WORKS
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NEVADA COUNTY BOARD OF SUPERVISORS
Board Agenda Memo

MEETING DATE: May 23, 2023
TO: Board of Supervisors
FROM: Heba El-Guindy, Director of Public Works
SUBJECT: Resolution Approving the Purchase of One Heliox 50kW Mobile DC Fast Charger for Emergency Charging of Transit Battery Electric Buses in an Amount Not to Exceed \$42,000

RECOMMENDATION: Approve the attached Resolution

FUNDING: Funding for this purchase is through an Environmental Protection Agency (EPA) Targeted Airshed Grant and is included in the Transit Services Fiscal Year 2022/23 budget. A budget amendment is not required, and there is no impact to the General Fund.

BACKGROUND: On February 23, 2021, the Board approved Resolutions No 21 – 046 and No 21-047 accepting a FY2019-20 EPA Targeted Airshed grant for the purchase of two 35-ft Low-Floor Battery Electric Zero-Emission transit buses, Depot slow-charger, on-route fast charger and associated construction costs for the purchase and installation.

As of May 9, 2023, the two 35-ft low-floor battery electric buses have completed production and final inspections and expected to be delivered by May 17th. The proposed purchase of one Heliox 50kW Mobile DC Fast Charger is necessary to maintain battery integrity of the vehicles and to allow Transit and Fleet Maintenance staff to properly train on the vehicles.

The approved Depot slow charger is in the final design phase with construction bid documents expected this June and is scheduled to be constructed in mid to late August, thus creating the need for purchasing a portable charger until the construction and testing are completed.

It should be noted that delay in constructing the interim phase slow charger is due to longer than expected design and contract document review time by the California Air Resources Board (CARB). Additional delays, which support the purchase of the portable charger, are due to extreme production queue delays of up to 18 months for required electrical switch gear for the phase 1 charger connection with planned PG&E utility upgrades at the Nevada County Operations Center. This is also the case for the construction and installation of on-route charging infrastructure at the Tinloy Transit Center.

This item is being presented to the Board for approval in accordance with County procurement guidelines.

The portable charger will also assist with future emergency fleet charging as Transit Services builds out the Zero Emission Vehicle fleet.

Item Initiated by: Robin Van Valkenburgh, Transit Services Manager
Approved by: Heba El-Guindy, Director of Public Works

Submittal Date: May 8, 2023

Revision Date: May 9, 2023