



RESOLUTION No. 23-215

OF THE BOARD OF SUPERVISORS OF THE COUNTY OF NEVADA

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

WHEREAS, the County of Nevada, Department of Public Works, Transit Services Division, is actively engaged in meeting the zero-emission vehicle capital equipment requirements of the 2019 California Air Resources Board (CARB) Innovative Clean Transit Regulation; and

WHEREAS, on February 23, 2021 the Board approved Resolutions No 21-046 accepting a FY2019-20 Environmental Protection Agency (EPA) Targeted Airshed Grant (EPA-OAR-OAQPS-20-01), and No 21-047 approving the purchase of two Gillig 35-foot Low-Floor Battery Electric Zero Emission Transit Buses, Depot Slow-Charger, On-Route Fast Charger, and Associated Costs for Installation; and

WHEREAS, the Transit Services Division and Public Works Engineering staff are working in conjunction with outside consultants and PG&E to design, construct and install the necessary charging infrastructure to support the operations of battery electric zero emission buses; and

WHEREAS, due to unforeseen delays based on COVID-19 influenced supply chain issues for required electrical switch gear components of up to 18 months, the planned charging infrastructure at the Nevada County Operations Center (NCOC) and Tinloy Transit Center will not be ready when the purchased vehicles are delivered; and

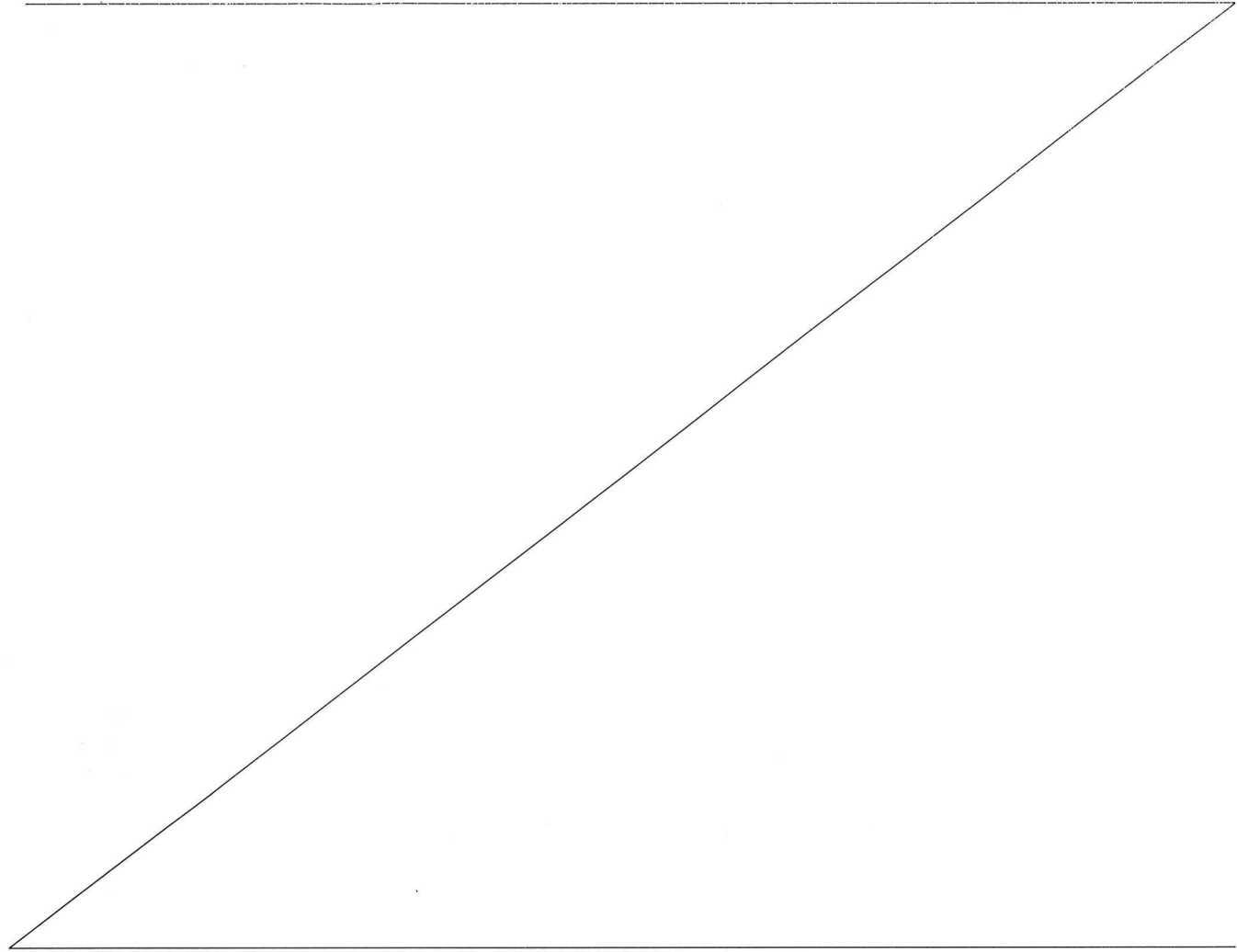
WHEREAS, it is necessary to maintain battery charge of the battery electric transit buses in order to eliminate battery degradation; and

WHEREAS, the Transit Services Division requires the ability to charge the battery electric transit buses in order to support the training of drivers and fleet maintenance personnel on the new equipment prior to the service implementation of the battery electric transit buses; and

WHEREAS, the Transit Services Division has sufficient funding available to procure the proposed mobile charger within the Fiscal Year 2022/23 budget 4281-91003-707-2000/540600.

NOW, THEREFORE, BE IT HEREBY RESOLVED that the Nevada County Board of Supervisors:

1. Approves the purchase of one Heliox 50kW Mobile DC Fast Charger.
2. Authorizes the Purchasing Agent to encumber the funds and issue a Purchase Order.



PASSED AND ADOPTED by the Board of Supervisors of the County of Nevada at a regular meeting of said Board, held on the 23rd day of May, 2023, by the following vote of said Board:

- Ayes: Supervisors Heidi Hall, Edward C. Scofield, Lisa Swarouth, Susan Hoek and Hardy Bullock.
- Noes: None.
- Absent: None.
- Abstain: None.

ATTEST:

JULIE PATTERSON HUNTER
Clerk of the Board of Supervisors

By: 


Edward C. Scofield, Chair

5/23/2023 cc: PW*
AC*



Quotation BQ20230425-01MW

Date 25th April 2023

Product	Part Number	Configuration
50 kW Mobile charger	HE9819025-01	non BAA
Cable Lengths	DC CCS-3.5m	AC 3.5m

Details

Number of units	1
Unit Price	\$37,550
Delivery per unit	\$400
Total delivered price	\$37,950

Quotation valid for 30 days

Michael Wegecsanyi

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Charging Infrastructure North America



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**COUNTY OF NEVADA
CAPITAL ASSET PURCHASE REQUEST**

TYPE OF REQUEST:

- Infrastructure Improvements and Preservation
- Building Structures & Improvements - Please identify building: _____
- Land: Rights of Way, Easements & Land Improvements
- Equipment: Technological - *Information Systems approval date:* _____
- Equipment: Automotive Equipment: Automotive
- Equipment: Office, Furniture & Fixtures Equipment: Office, Furniture & Fixtures
- Equipment: Other: _____ Equipment: Other:

Fiscal Year: 2022-23
 Dept Name: Public Works-Transit Services
 Fund: LTF/EPA Grant
 SBU: 91003
 Office2:
 Sub-Service:
 PCN: 4281-91003-707-2000
 Acct Code: 540600

IMPORTANCE OF CAPITAL ASSET: Urgent Necessary Desirable

PRIORITY RANKING OF CAPITAL ASSET: ___1___ out of ___1___ Total Department Requests

JUSTIFICATION FOR CAPITAL ASSET (Attach additional pages as necessary)

This purchase is required to ensure continuous charging is available for new battery electric bus charging.

FUNDING SOURCE FOR CAPITAL ASSET

1. Is this grant-funded? Yes No Granting Agency: EPA/CARB BOS Reso. # Accepting Grant: 21-046

Other funding source: State LTF

2. What is the general fund and/or other fund balance dollar impact? None As follows:

3. Who will technically own this asset? County of Nevada Granting Agency Notes regarding ownership:

Notes regarding funding (including deadlines)

CAPITAL ASSET ITEMIZED COSTS - Estimated

Item	Quantity	Unit Cost	Sales Tax	Shipping	Installation	Other Cost	Total Cost
Heliox 50 kW Mobile DC Fast Charger	1	\$37,550	\$3,192	\$400		\$0	\$41,142
		\$0	\$0			\$0	\$0
		\$0	\$0			\$0	\$0
		\$0	\$0			\$0	\$0
		\$0	\$0			\$0	\$0
TOTAL:							\$41,142

Please attach documentation (ISSB approval minutes, quotes, etc.)

APPROVED BY:

Prepared by: Robin Van Valkenburgh Date: 5/3/2023

Dept. Head Signature:

Phone: 530-470-2833

CEO Analyst Signature

APPROVED

DATE

By Barry Anderson at 1:50 pm, May 08, 2023

Notes:

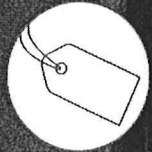
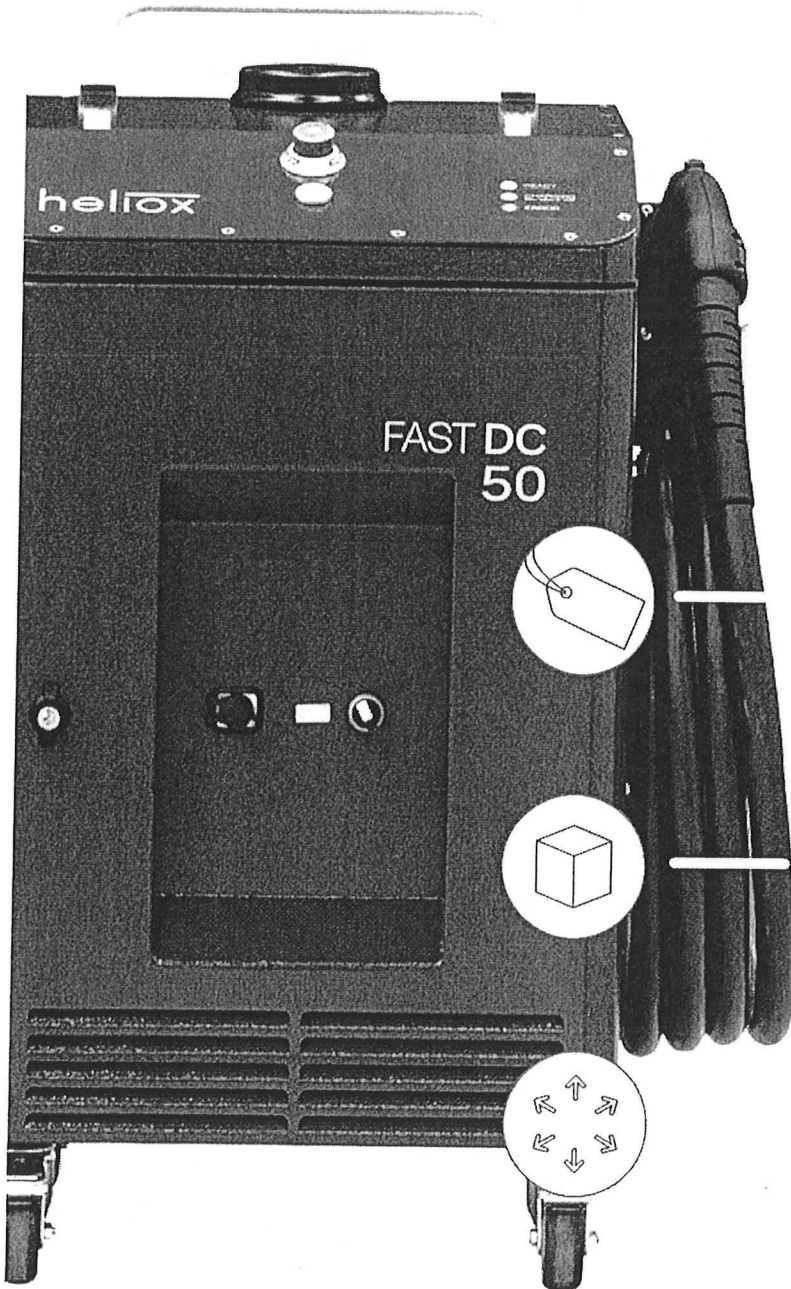
CEO Staff use only

Initials _____ Date _____
 Denied
 Approved \$ _____

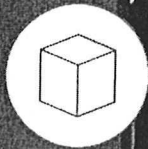
Capital Asset Approval # _____

Mobile 50 kW

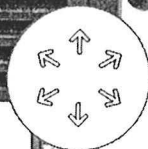
With durable and portable design, the Heliox Mobile DC charger is built with the daily activities of service and maintenance personnel in mind. And with no fixed installation required, you'll save thousands on infrastructure costs as well.



Manufactured and tested in the United States ensuring Buy America Act compliance.



Perfect for getting started with EV or scaling up. Simply connect to a 480V AC wall socket and start charging.



With a compact design and no fixed installation, Mobile 50 can be moved to charge anywhere it can be plugged in.

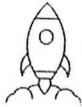
All product designs and specifications are subject to change without notice

heliox

Mobile 50 kW



Durable: A strong metal casing and wheel system means Mobile 50 kW stands up to daily wear and tear in ways other portable chargers simply cannot. And with a NEMA 3R rated enclosure, Mobile can be safely operated both indoors and outside.



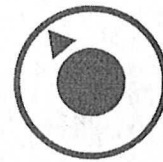
Future-proof: The Mobile 50 kW is the perfect EV charging companion, now and in the future. No matter what direction your business is headed, this charger will always be by your side, providing reliable charging when and where you need it.

**96.2%
Efficiency**

Charging standard:	SAE J1772 (CCS type-1)
Communication standard:	DIN70121 / ISO15118-1/2/3
Compliance and safety:	UL 2202 / UL 2231
Power factor above 50% rated:	>0.98
Peak efficiency:	96.2%
Dielectric withstand:	3000 V
Network cellular:	4G modem
Back office:	OCPP 1.6J
Temperature range:	-4 to 104 °F
Operational noise level:	<55 dB(A) @ 40"
System weight:	270 lbs.
Dimensions:	H: 36", W: 20", D 20"
Protection	NEMA 3R
Environment operating:	ISO 12944: C4 H

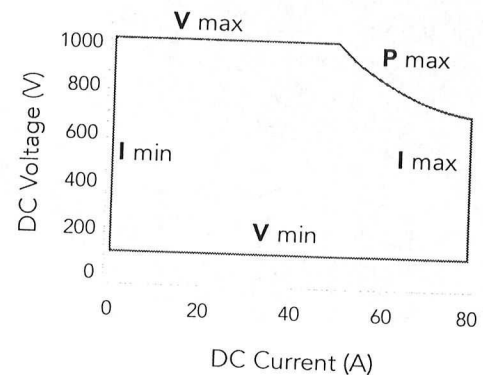
Raise or lower your charger input with the turn of a dial, enabling you to activate sessions in situations where power supply may be limited.

100%
50%
25%



Actual power maybe impacted due to vehicle parameters

Input connections, Frequency:	3P + G, 47-63 Hz
Input current limit values:	15 A / 25 A / Max. (user selected)
Full load / idle input power:	54 kVA / 15 VA
Input line-line voltage range:	480 V AC +/- 10%, 60 Hz
Input max. AC phase current:	65 A, inrush current limited



Output DC voltage range:	100 - 1000 V
Rated DC output power:	50 kW
Output power limits:	11 kW (@ 15 A AC input current) 19 kW (@ 25 A AC input current) 50 kW (@ Max. input current)
Maximum DC output current:	80 A

heliox

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