

Bus Fleet Updates

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The Current Condition

CUSD is operating a 20+ year old diesel bus fleet that is failing to provide reliable, clean transportation.

		22'-23'	21'-22'
Bus Fleet Costs		<u>\$159,428.00</u>	<u>\$90,857.00</u>
SPED		<u>\$97,200.00</u>	<u>\$82,500.00</u>
	Total	\$256,628.00	\$173,357.00

Bus Fleet Costs Breakdown	22'-23'	21'-22'
Fuel	\$9,055.36	\$7,612.26
Materials and Supplies	\$49,595.99	\$35,989.81
Repairs/Service	\$83,994.42	\$34,115.74
Training	\$16,783.00	\$13,140.00
Total	\$159,428.77	\$90,857.81

CUSD does not currently have the resources to purchase new buses.



CUSD Student Transportation Needs

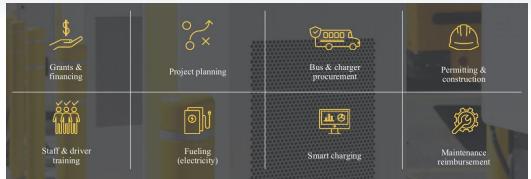
CUSD needs **4 Type A (small) buses** with two wheelchair lifts and **3 Type D (large) buses**. These buses would provide the necessary transportation for our target students, would be available for field trips, and would act as resilient battery storage in the case of power outages.





Options:

- 1. Purchase new buses
- 2. Apply for grants
- 3. Lease



CUSD determined the most cost effective way to procure new buses would be to apply for grants and combine grants with Highland Electric resources. Highland would then install the infrastructure and would support the operation of a new electric bus fleet that would also help us comply with state requirements of us to convert our fleet to electric buses.



Opportunity

Highland Cabrillo USD, 1 Lewis Foster Dr, Half Moon Bay, CA **Project Description** Legend Highland to install 7 DCFC/Level 3 chargers Flectric School Bus at Cabrillo USD's Half Moon Bay High Proposed New Transformer School for the deployment of 7 electric Proposed New Switchgear school buses. 3 chargers will be DCFC bidi-Concrete Pad rectional/V2G/V2B capable and 4 chargers DCFC/L3 Charger will be regular DCFC chargers. Existing Infrastructure Bollard New service will be necessary given the Primary Conduit (UG) installation of bidirectional chargers. New Secondary Conduit (UG) infrastructure will likely be located near the Utility Manhole existing solar infrastructure. New service Underground Electrical Line will draw from the existing underground line to the south of the parking lot, noted on the Tellus diagram with the "utility manhole" circle. Chargers Project Location: 37°28'26.7"N 122°25'38.9"W **Equipment Selection** 3 Rhombus/BorgWarner 60kw V2G capable chargers and 4 Tellus 30kw chargers, all with a 1:1 bus to charger ratio. 3 Type D Blue Bird buses, each with a 196kw bidirectional capable battery, 4 Type A school buses, with various battery sizes between 88kw-125kw, for a total of 7 For conceptual purposes - not for interconnection or construction purposes - subject to change electric school buses.



Questions?

Thank you!