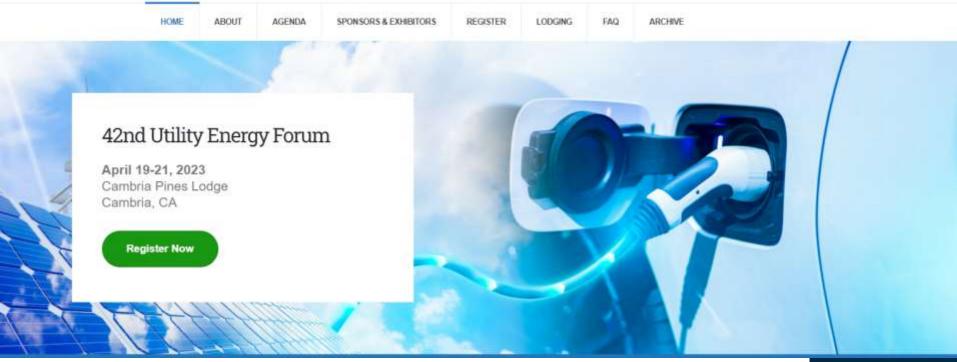
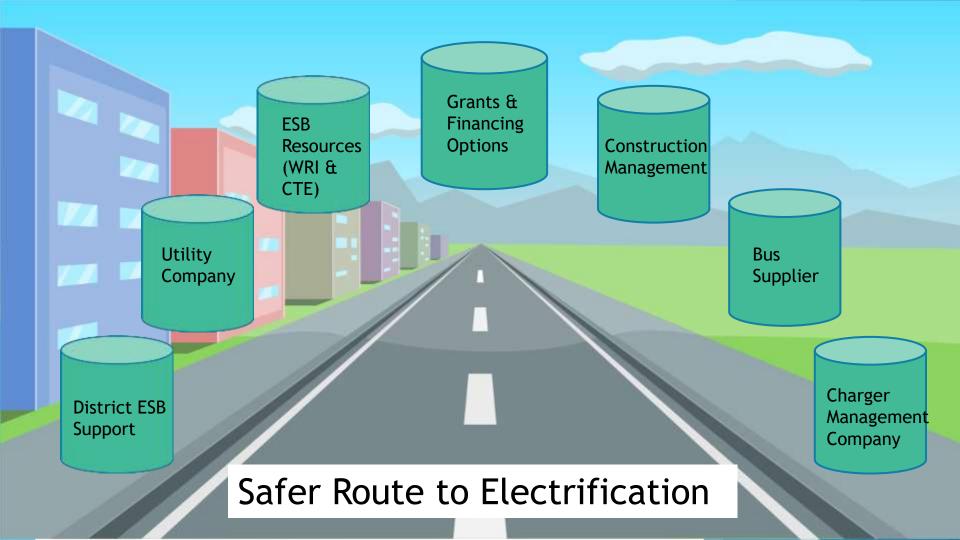
Utility Energy Forum



Gilbert Blue Feather Rosas, Director II, Sustainability & Adaptation "Collaborating with Schools for Sustainability Initiatives"



	Stockton Unified School District	Modesto City Schools	Notes
Time Period	03/19 to 03/22	03/22 to Present	
From Groundbreaking to Charging Buses	less than 11 Months	less than 11 months*	*(06/22 to 04/23)
Grant Funding Signed	\$11.04M	\$9.4M	
Grant Funding applied for	\$16.8M	\$16.6M **	**3/1/23
Battery Electric Buses	11	30	
Overall Fleet Size	92	62	
# of Students	40,000	30,000	
District Ranking by enrollment	15	25	
DCFC (DC Fast Chargers)	4	2	
L2 AC Chargers (level 2)	20	30	
Conduit stub-ups for future	0	12	



These are the grant "funding Plates" we are spinning



➤ Bi-partisan Infrastructure Law (BIL) EPA Clean School Bus Program	\$ 3,160,000.
California's Hybrid & Zero-Emission Truck and Bus Voucher Incentive Program	\$
San Joaquin Valley Air Pollution Control District- Clean Vehicle Fueling Infrastructure Program (PH1)	\$ 4,190,000.
San Joaquin Valley Air Pollution Control District- Clean Vehicle Fueling Infrastructure Program (PH2)	\$ 1,950,000.
San Joaquin Valley Air Pollution Control District- Clean Green Yard Machines	\$ 30,000.
San Joaquin Valley Air Pollution Control District- Public Benefits Grant New alternative Fuel Vehicle Purchase	<u>\$ 72,517.</u>
Total Grant Funds	\$ 9,402,517.

Community Sustainability Partner







Considerations for Electric School Bus Deployment

Environmental

- Local Air Quality
- ➤ Noise Pollution
- Oil/Fuel Consumption
- Improve Quality of Life for Students & Employees

Political

- Focus on Sustainability
- Strengthen the local grid
- Social improvement at the local level

Economical

- Reduce overall cost of ownership
- > Reduce staff workload
- Reduce parts inventory

Electric School Bus vs. Diesel Bus Analysis

10-Yr Lifetime Operational Cost per Mile

O&M Cost Comparison	ESB	Diesel	Savings
Electricity/Fuel Cost, \$/mi	\$0.03	\$0.44	\$0.41
Maintenance Cost, \$/mi	\$0.56	\$1.54	\$0.97
Total Operation Cost, \$/mi	\$0.60	\$1.98	\$1.38





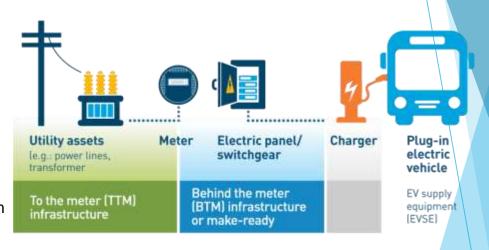
Key Points:

- Plan Ahead Expect 12-18 Months Lead time
- ▶ Plan For Growth To Save Money
- Level 2 (AC) & DC fast charge are Standard

Funding Opportunities:

- CEC EnergIZE Program
- PG&E Fleet Ready Program
- SCE Charge Ready Program
- San Joaquin Valley APCD Program
- ► Bay Area AQMD Program
- Sac Metro SMUD Program
- Mojave Desert AQMD Program













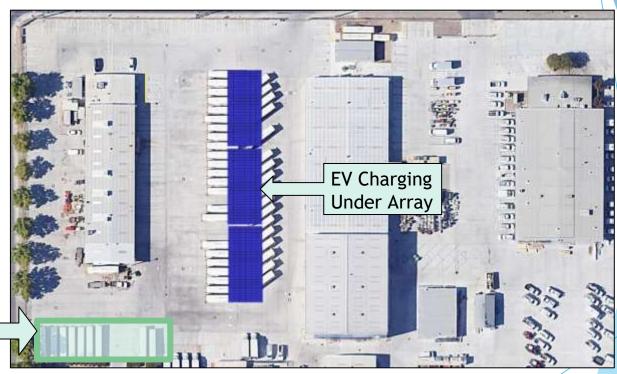








ESB Charging and Solar Shade Structures



Additional DC Fast Chargers





Improving For Future Generations









Modesto City Schools Sustainability Webpage:

https://www.mcs4kids.com/page/sustainability-and-adaptation