

Electric School Bus Replacement Program



School Bus Replacement Program
Advanced Vehicle Technologies Office
Fuels and Transportation Division

July 24, 2019



Overview of Presentation

- Program Background
- GFO-17-607
- Number of Recipients
- GFO-18-604
- Types of Buses and Awards
- Update to Cost Effectiveness
- Timeline



Program Background

- Senate Bill 110 (SB 110) allocates up to \$75 million for school bus replacement grants.
- GFO-17-607 released in May 2018.
- GFO-18-604 released in December 2018.
- Both Notices of Proposed Awards released June 3, 2019.
- Initial agreements went to July 15, 2019 Business Meeting.



GFO-17-607 Scoring Results

Analysis of All Buses Eligible for EV Replacement

Regions	# of applying LEAs	Number of Buses 1999 and Older	Total Number of Buses Eligible for Replacement	Percentage of Eligible Buses 1999 and Older
Northern	53	249	444	56%
Central	99	420	602	70%
LA County	12	53	86	62%
Southern	35	256	417	61%
TOTALS	199	978	1,549	63%



GFO-17-607 Scoring Results

Ranking: Analysis of Top 75 Buses in Each Region

Regions	# of Applying LEAs	Age Range of Buses	Total Score Range	Bus Type A Requests	Bus Type C Requests	Bus Type D Requests	TBD Bus Type Requests	TOTAL
Northern	24	1983 - 1997	81.9 to 98	20	14	41		75
Central	32	1978 - 1992	87.7 to 99.2	5	5	61	4	75
LA County	12	1984 - 2004	59.2 to 95	24	17	34		75
Southern	15	1985 - 1997	82.5 to 95.4	2	11	62		75
TOTALS	83			51	47	198	4	300



GFO-17-607 Expected Awards

Bus Type	Quantity Needed (Estimated)
Type A	25
Type C	35
Type D	140
Combined	200



GFO-17-607 Awards

Regions	Bus Type A Awards	Bus Type C Awards	Bus Type D Awards	TOTAL
Northern	11	11	28	50
Central	5	3	49	57
LA County	19	15	25	59
Southern	4	10	31	45
TOTALS	39	39	133	211



GFO-18-604 Results

- Received six separate applications from manufacturers and dealers.
- Lion Electric awarded 5 of 6 categories.
- MicroBird awarded Type A with chairlift.

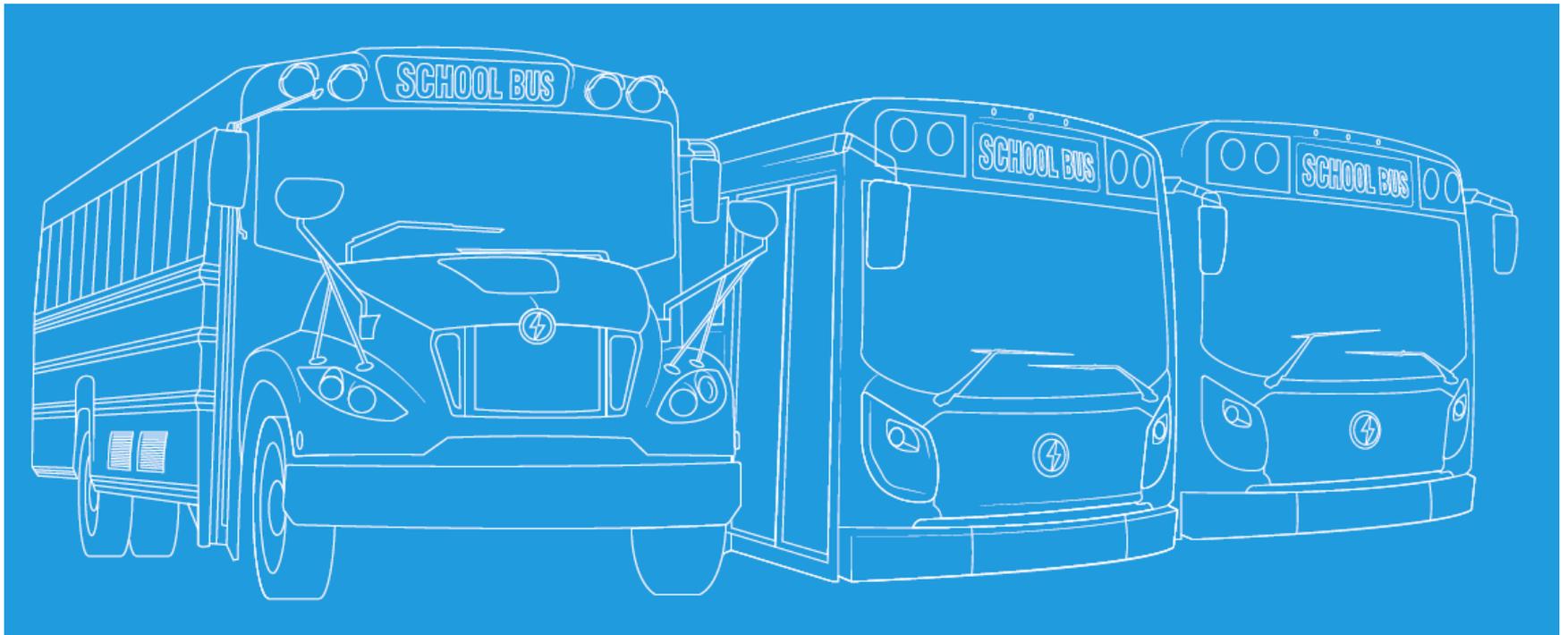


GFO-18-604 Awards

Applicant	Type of Bus	Score	Bid
The Lion Electric Co.	Type A without Chair Lift	83%	\$269,489
A-Z Bus Sales, Inc. (Micro Bird)	Type A with Chair Lift	80.9%	\$291,524
The Lion Electric Co.	Type C without Chair Lift	83%	\$319,284
The Lion Electric Co.	Type C with Chair Lift	83%	\$327,727
The Lion Electric Co.	Type D without Chair Lift	83%	\$330,109
The Lion Electric Co.	Type D with Chair Lift	83%	\$337,470



Lion Electric Awards





A-Z Award



Tested & approved

Versatile transportation for up to 28 passengers



Available now



Cost Effectiveness Model

- Previous assumption of purchase cost of Type D school bus was \$415,000.
- Highest award of any bus type: \$337,470.
- Cost Effectiveness ratio increased from 1.15 to 1.28!



Timeline

Expected Timeframes for Bus Delivery

Cumulative Percentage of Delivered Buses	Latest Bus Delivery Date
5%	12/31/2019
25%	First Year of the Agreement
50%	Second Year of the Agreement
100%	9/30/2022

ELECTRIC SCHOOL BUS WORKFORCE TRAINING AND DEVELOPMENT



- Interagency Agreement with Cerritos Community College District
- \$1 million from Clean Transportation Program
- Up to nine community colleges statewide – faculty training – Train-the-Trainer
- For all school district, county offices of education and JPA awardees
- Training for electric school bus operators and fleet maintenance technicians
- Training delivery coordinated with bus deliveries



Thank You!

