



National Association of  
State Energy Officials

*“America’s Infrastructure: Deploying Energy  
Innovations for Economic Growth and Climate  
Action.”*



 **LION ELECTRIC**

An All-Electric Commercial  
Vehicle Manufacturer

SEPTEMBER 2021



# Lion History



Dedication to Transportation and Electrification



**2008**

▼  
Lion  
Founded

**2011**

▼  
3-Year  
Development

**2016**

▼  
All-Electric  
School Bus  
Launch

**2018**

▼  
All-Electric  
Midi/Minibus  
Launch

**2020**

▼  
All-Electric  
Commercial  
Truck Launch

**2021**

▼  
All-Electric  
Refuse Launch

# Lion Today



400+ electric vehicles in operation



More than 8 million  
zero-emission miles driven



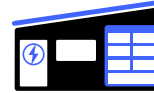
Factory in Saint-Jérôme, Quebec, with an existing annual capacity of 2,500 vehicles per year

H2 2021 ramp-up of U.S.-based 20K vehicle-per-annum facility in Joliet, Ill.:

- Largest all-electric medium and heavy-duty vehicles plant in the U.S.
- First vehicles expected off the production line in H2 2022



Planned opening of a highly-automated 5 GWh-per-annum battery factory in Mirabel, Que



8 experience centers and opening 2 R&D centers (U.S. and Canada)



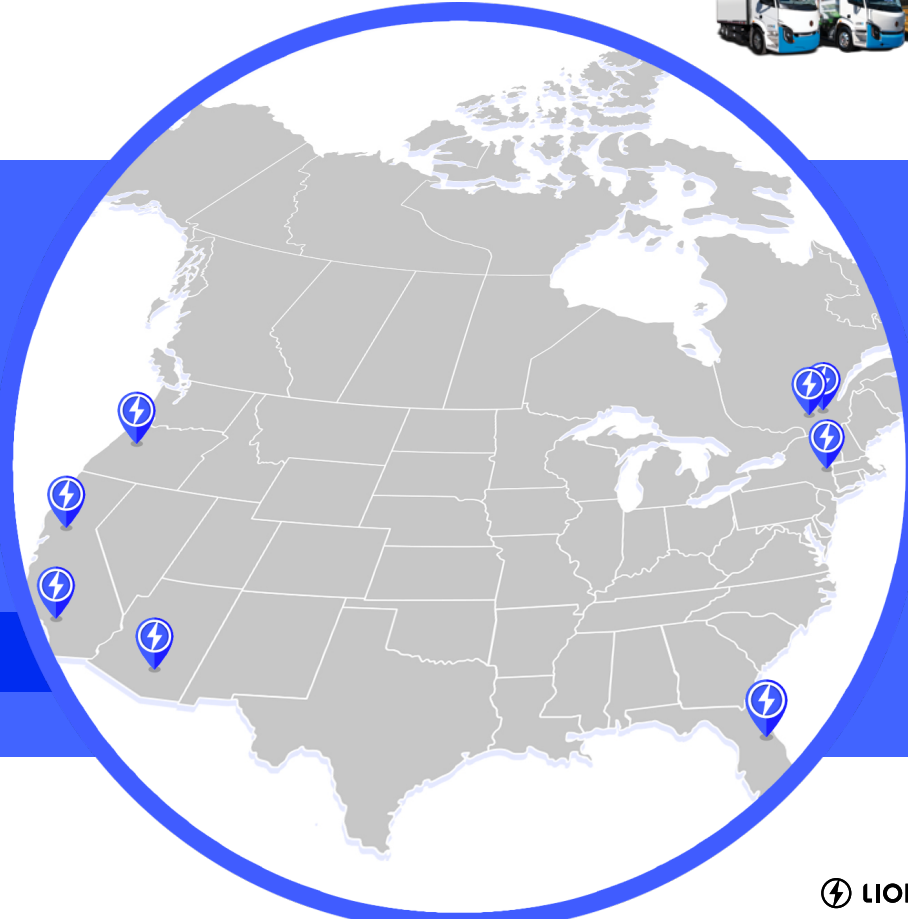
~900 employees

# Experience/Service Centers
















## Currently open

- Sacramento, CA
- Los Angeles, CA
- Seattle, WA
- Jacksonville, FL
- Albany, NY
- Phoenix, AZ
- South Plainfield, NJ
- Saint-Jérôme, QC
- Terrebonne, QC



# Product Roadmap



	Available Today	Near-Term Product Launches			
		2021	2022		
TRUCKS	 <p><b>LION6</b></p>	 <p><b>LION8</b></p>	 <p><b>LION8</b> Tractor</p>	 <p><b>LION8</b> Bucket</p>	
	 <p><b>LION8</b> Reefer</p>	 <p><b>LION8</b> Refuse</p>	 <p><b>LION6</b> Utility</p>	 <p><b>LION5</b></p>	 <p><b>LION8</b> Boom</p>
	 <p><b>LIONC</b></p>	 <p><b>LIONA</b></p>	 <p><b>LIONM</b></p>	 <p><b>LION7</b></p>	 <p><b>AMBULANCE</b></p>
BUSES				 <p><b>LIOND</b></p>	
				 <p><b>LION ELECTRIC</b></p>	

# All-Electric School Buses



## LIONA

### All-Electric Mini School Bus

Up to 22,000 lb GVWR  
75-150 miles  
84-168 kWh



## LIOND

### All-Electric Type D School Bus

Up to 36,200 lb GVWR  
100-125-155 miles  
126-168-210 kWh



## LIONC

### All-Electric Type C School Bus

Up to 33,000 lb GVWR  
100-125-155 miles  
126-168-210 kWh



1 LION SCHOOL BUS  
=  
ELIMINATING  
**23 tons**  
of GHG

# All-Electric Shuttle/Transit Minibus



## LIONM

### All-Electric Minibus

Up to 22,500 lb GVWR

Up to 150 miles

Up to 160 kWh



# All-Electric Urban Trucks



## LION6

**All-Electric Class 6 Truck**  
26,000 lb GVWR  
Up to 200 miles  
Up to 252 kWh



## LION8

**All-Electric Class 8 Truck**  
Up to 60,000 lb GVWR  
Up to 170 miles  
Up to 336 kWh



## LION8T

**All-Electric Class 8 Tractor Truck**  
Up to 82,000 lb GCWR  
Up to 260 miles  
Up to 653 kWh



MODULAR  
BATTERY  
APPROACH

1 LION TRUCK  
=  
ELIMINATING  
**100 tons  
of GHG**

\*EPA calculator.



# Lion's **Versatile** Platforms



**LION8**  
Refuse

All-Electric Class 8  
Waste Collection Truck



**LION8**  
Reefer

All-Electric Class 8  
Refrigerated Truck



**LION8**  
Boom

All-Electric Class 8  
Boom Truck



**LION8**  
Bucket

All-Electric Class 8  
Bucket Truck



**LION8**  
Utility

All-Electric Class 8  
Multi-Purpose Truck



Ambulance

All-Electric  
Emergency Vehicle



WASTE CONNECTIONS, INC.



Transport  
Canada

Transports  
Canada

## Electric Vehicle Report

### The Road to Clean Air

The transportation sector is a leading contributor to both climate change and air pollution. With nearly half of Americans living with unhealthy air, and climate change making it harder to protect public health today, "The Road to Clean Air" report highlights the potential for major public health and climate change benefits through a robust nationwide transition to electric vehicles.

DOWNLOAD REPORT

## Unlocking Access To EVs In Underserved Communities



Stacy Nohlet Contributor @  
Transportation

*1 focus on clean, efficient transportation technologies and strategies*

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The transportation sector is the largest contributor to greenhouse gas (GHG) emissions in the U.S. Rapidly decarbonizing this sector is essential to achieving the Biden administration's commitments to reaching a net-zero emissions economy by 2050 and advancing smart fuel efficiency across the country. In order to meet these goals, steps can be taken across the public and private sectors to ensure fair and equitable access to electric vehicles (EVs). While low-to-moderate income (LMI) and minority communities are typically the most impacted by pollution and poor air quality, EVs are not always readily accessible to these communities, creating a catch-22.

## Disparities in the Impact of Air Pollution



## Zero-emission trucks and buses: A part of the climate solution

the rEV index



## The state of electric school bus adoption in the USA

Published on 21-09-2021 at 09:51

There are nearly half a million school buses in the United States that transport more than 20 million children to and from school. Some 95 per cent of these school buses run on diesel, a known carcinogen, with air pollution inside buses up to 12 times higher than ambient levels.