

LION5

**BUILD SHEET DEVELOPED
FOR NORTH CAROLINA
SHERIFF'S ASSOCIATION
ITEM # 436**

PRESENTED BY:

The Lion Electric Co. USA Inc.
VendorLink ID: 65774



 **LION ELECTRIC**
LION5 ALL ELECTRIC
TRUCK

LION5

Straight Chassis



Technical Specifications*

WEIGHT & DIMENSIONS

Cabin length - BBC	74.3 in.
Cabin height	93.2 in.
Wheelbase	140 in.
Gross vehicle weight rating (GVWR)	24,000 lbs

ELECTRIC POWERTRAIN

Top speed	74,5 mph
Maximum power	235 kW • 340 HP
Range	Up to 190 miles**
Battery capacity	Up to 210 kWh
ePTO	Available
Motor and inverter	Sumo MD Dana TM4
Transmission	Direct drive No transmission
Level III - charging time	Minimum 1.4 hours
Plug-in charging	Front or rear of the vehicle

CHASSIS

Payload	Up to 11,500 lb
Low floor capability	30 in. from ground to top of frame rail 3 in. drop suspension kneeling ability
Front suspension	Liquid springs suspension Meritor MFS-11
Rear suspension	Liquid springs suspension Dana S130
Braking	ABS hydraulics disc brakes

* SPECIFICATIONS ARE SUBJECT TO CHANGE.

** Based on 75% GVWR, 21 °C/70 °F, City Suburban Heavy Vehicle Cycle

All-Electric Class 5
multi-vocational low profile
chassis cab & cutaway

 **LION ELECTRIC**

thelionelectric.com

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LION5 - BUILD SHEET
ZERO-EMISSION TRUCK
Item # 436
Make: Lion Electric
Model: Electric (Cab & Chassis Only). Model# Lion5 (Cab & Chassis Only)

LION5 BASE PRICE	Please refer to line item 436 for price.
THE MANDATORY COMISSION FEE OF .0075, 6% DISCOUNT AND SHIPPING FEE ARE INCLUDED IN THE BASE PRICE	

FOR OPTIONS THAT WILL MODIFY THE TOTAL PRICE, PLEASE REFER TO THE LION ELECTRIC CO. OPTIONS PDF SUBMITTED WITH THIS BID.

THE BELOW DETAILS THE BUILD SHEET WITH THE SELECT OPTIONS INCLUDED IN THE BASE PRICE

Federal Motor Carrier Safety Approved	
TRUCK INFORMATION	
MODEL YEAR	2023-2024
CONFIGURATION	4x2
GVWR	24,500 LB
MOTOR	
CONFIGURATION	SINGLE SPEED ELECTRIC
TYPE	SUMO MD 800V 6P HV3200
COOLING	
FAN HUB	ELECTRIC FANS
RADIATOR COOLANT	CUMMINS ENGINEERING STANDARD CES 14603

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ELECTRICAL	
ON/OFF DISCONNECT SWITCH	STANDARD
BATTERY DISCONNECT	AT 12 VDC
12 V BATTERIES	2 X (48 Ah/ 750 CCA)
12 V LIGHTING SYSTEM WITH CIRCUIT PROTECTION	STANDARD
BATTERY BOX LOCATION	LH SIDE TO LADDER FRAME
2 DUAL PURPOSE BATTERIES (24V)	STANDARD
MULTIPLEX ELECTRICAL SYSTEM WITH CENTRALIZED POWER DISTRIBUTION	STANDARD
HIGH VOLTAGE BATTERIES TYPE	LITHIUM-ION (NMC)
CIRCUITS NUMBERED & COLOR CODED	STANDARD
ELECTRIC OUTLET	2x 12VDC PORT
	1x USB PORT
TOTAL BATTERY CAPACITY (KWH)	210
HIGH VOLTAGE BATTERIES	LITHIUM-ION (NMC)
KEY SWITCH START AND SHUTDOWN	STANDARD
REGEN BRAKING SYSTEM	STANDARD
SOUND GENERATOR	STANDARD
DC LEVEL 3 CHARGING PORT	STANDARD
PROPELLER SHAFT	

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TRANSMISSION	DIRECT DRIVE // NO TRANSMISSION
DRIVELINE	DANA DRIVELINE
FRONT AXLE	
TYPE	MERITOR
CAPACITY	11,000 LBS
REAR AXLE	
TYPE	DANA S16-130
CAPACITY	15,500 LBS
STEERING	
STEERING COLUMN	TILT/TELESCOPIC ADJUSTABLE WITH LOCK
STEERING WHEEL DIAMETER	18 IN.
POWER STEERING	STANDARD
BRAKES	
TYPE	MERITOR (HYDRAULIC)
ABS	STANDARD
PARKING BRAKE OFF WARNING	STANDARD
PARKING BRAKE	ELECTRIC
FRONT SUSPENSION	
TYPE	LIQUIDSPRINGS

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SIZE	11,000 LBS
SHOCK ABSORBERS	STANDARD
REAR SUSPENSION	
TYPE	LIQUIDSPRINGS
SIZE	15,500 LBS
SHOCK ABSORBERS	STANDARD
CHASSIS	
FRAME RAILS	120 KSI STEEL 0.375" x 8.00" x 3.00"
CROSSMEMBER	100 KSI STEEL RAILS
FRONT TOW HOOKS	STANDARD
WHEELS & TIRES	
FRONT TIRES	265/70R19.5
REAR TIRES	245/70R19.5
FRONT WHEEL	19.5 x 6.75
REAR WHEEL	19.5 x 6.75
TIRES	GOODYEAR
INSTRUMENTS	
MAIN CLUSTER	DASHBOARD
	PREHEAT SETTING

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	MAINTENANCE FEATURE
GAUGE	AIR PRESSURE
	ELECTRIC HEATER
COLOUR INFORMATION DISPLAY	BATTERY LEVEL
	RANGE
	CONSUMPTION/REGEN
	SPEEDOMETER WITH ODOMETER
	INSIDE/OUTSIDE TEMPERATURE
WARNING LAMP	ABS
	TURN SIGNAL
	HIGH BEAM
	LOW BEAM
	DOOR OPENING
WARNING LAMP/BUZZER	CHECK ENGINE
	STOP ENGINE
	PARKING BRAKE OFF WARNING SIGNAL
CAB FEATURES	
SEATING CAPACITY	2

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STRUCTURE	ALUMINIUM
WINDSHIELD	CLEAR
EXTERIOR MATERIAL	COMPOSITE & COLORED GEL COAT
INTERIOR TRIM	PREMIUM
INTERIOR COLOR	LIGHT GREY
LENGTH	LENGTH 74.4 IN
WIDTH	WIDTH 96 N
HEIGHT	HEIGHT 93.2 IN
DOOR	COMPOSITE & STEEL
INTERIOR GRAB HANDLE	STANDARD
FRONT BUMPER	ONE-PIECE COMPOSITE
MUDFLAPS	STANDARD
FLOOR TYPE	FLAT (NO DOGHOUSE)
FLOOR STRUCTURE MATERIAL	STEEL
FLOORMAT	VINYL
STORAGE	GLOVEBOX
CENTER CONSOLE	STANDARD
SUNVISOR	3X
INTERIOR LIGHTNING	DRIVER & PASSENGER READING LIGHT, DOME LIGHT, FOOTWELL LIGHT

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DRIVER SEAT	ANTI-BACTERIAL CLOTH
	BLACK COLOR
	STANDARD
PASSENGER SEAT	ONE-PERSON SEAT
SEATBELT	3 POINT, BLACK COLOR
STANDARD FEATURES	
AIR CONDITIONING	5 kW ELECTRIC
HEATING	10 kW ELECTRIC
AUDIO	AM/FM/WB/BLUETOOTH/USB AUDIO SYSTEM
BACKUP ALARM	STANDARD
ELECTRIC HORN	DUAL ELECTRIC
MIRRORS	HEATED
	MOTORIZED
WINDOWS	CLEAR
	ELECTRIC POWERED
DOOR LOCKS	ELECTRIC POWERED
EXTERIOR LED HEADLIGHTS	STANDARD
EXTERIOR LED MARKER LIGHTS	5
INTERIOR LED LIGHTS	STANDARD

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KEY SWITCH START AND SHUTDOWN	INDIVIDUAL KEYS
REGENERATIVE BRAKING SYSTEM	STANDARD
HILL START ASSIST	3-SECOND HOLD
SOUND GENERATOR	1 FRONT, 1 REAR
REMOTE DIAGNOSTICS	AVAILABLE, REFER TO TELEMATICS OFFERING
CUP HOLDER	DUAL
FRONT TOW HOOKS	STANDARD
ON/OFF DISCONNECT SWITCH	STANDARD
PASSENGER SEAT	SAME AS DRIVER WITH 3-POINT SEAT BELT
CRUISE CONTROL	STANDARD
PREHEAT SETTING	STANDARD
PREMIUM CLUSTER & DASHBOARD	STANDARD
SMART CHARGE	STANDARD
STABILITY CONTROL	STANDARD
DIMENSIONS	
CAB WIDTH	96 IN
REAR FRAME OVERHANG	56 IN
FR AXLE TO BOC	16.9 IN
CAB TO AXLE	123 IN.

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CAB TO EOF	182 IN
OVERALL COMB. LENGTH	254 IN
PERFORMANCE	
MAX SPEED	75 MPH
MAXIMUM POWER	235 Kw/ 130 kW
MAXIMUM TORQUE	3195 Nm/ 958 Nm
ADDITIONAL ITEMS	
CHARGE READY PILOT LIGHT	STANDARD
BUMPERS - BLUE	STANDARD

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EXECUTIVE SUMMARY

The Lion Electric Co. USA Inc. (Lion) appreciates the opportunity to submit a response to the Heavy Equipment Contract. We are excited at the prospect of continuing our relationship with North Carolina Sherriff's Association and its members as they begin to transition to a zero-emission fleet. We believe that our values of transportation safety, quality, customer service, and employee happiness make Lion your ideal vendor for the Heavy Equipment Contract. These values guide Lion as it continues to build an environmentally and socially responsible business that makes a positive impact on the communities it serves.

Founded in 2008, Lion is the leading purpose-built, zero-emission medium- and heavy-duty electric vehicle manufacturer in North America. With over 950 electric vehicles on the road today, proven and industry-leading range of up to 170 miles on a single charge, and its ability to manufacture up to 2,500 electric vehicles annually, Lion stands out as the leader in the zero-emission commercial vehicle industry. Unlike many other manufacturers, we are able to provide actual performance data on our electric vehicles. Our battery technology is proven and scalable to fit your unique operational needs, so you only pay for what you need. Lion is capable of immediately supporting NCSA members' electrification requirements with its team of experts who have unparalleled experience in electric vehicle deployments. Over a decade of knowledge, performance, and innovation have culminated in our dominance of this industry in which many other manufacturers are just now taking their first steps into the electric arena.

Lion understands that the zero-emission journey is about more than just the vehicle. Fleets need not only a manufacturer, but a partner who can provide a complete, turnkey solution that will ensure their successful transition to an electric fleet and a new way of doing business. Lion is that partner:

- ✓ Driving the charging infrastructure solution with Lion**Energy**
- ✓ Educating and training with the Lion **Customer Success Team**
- ✓ Tracking and reporting vehicle telematics with Lion**Beat**
- ✓ Lighting the way to an excellent customer service experience with the Bright**Squad**

We believe that deploying an electric fleet aligns with your member's organizational goals on many levels, whether it be protecting the safety and health of operators, employees, and communities; fighting the effects of climate change; realizing substantial operational savings; or securing competitive advantages in the market. Lion is your best partner to help lead NCSA and its members into the future of transportation. With over 1,400 individuals employed across North America, including approximately 300 in engineering and R&D alone, Lion's workforce specializes exclusively in zero-emission vehicle applications, making Lion one of the few OEMs to dedicate its production to purpose-built all-electric vehicles only.

Because Lion vehicles are deployed throughout North America, we are one of the only manufacturers that can confidently say that we have not experienced battery failure in any extreme weather conditions. From extremely cold climates (such as Quebec, Minnesota, and Massachusetts) to extremely hot (such as the Central Valley of California), Lion has only experienced up to 1% battery degradation yearly.

Lion would not have been able to achieve such an impressive deployment territory without having an aggressive delivery record. Lion has one of the fastest delivery timelines in the industry. Over the past decade, we have built a team of experts in the all-electric vehicle industry who have unparalleled skills and

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knowledge, and they have made it possible for Lion to meet delivery deadlines and dominate the electric vehicle market in North America. Each of our employees has experience in fleet electrification and brings unique talent in their respective field of expertise. The Lion team is ready to work with your members to deploy zero-emission trucks that meet your specific fleet requirements.

5 steps to electrify your fleet



With a growing portfolio of deployments, Lion has invested significant time and resources into expanding our manufacturing capacity to meet rising demand. The original Lion factory, established in Saint-Jérôme, Quebec, is capable of manufacturing up to 2,500 all-electric medium- and heavy-duty vehicles each year. Scaling up production and expanding its manufacturing into the United States, Lion has acquired a 900,000 sq. ft. factory in Joliet, Illinois, that will be capable of manufacturing up to 20,000 all-electric medium- and heavy-duty vehicles each year. Lion will be manufacturing vehicles in both Canada and the US at the same time. This will allow us to comply with local, state or provincial, and federal laws and regulations in both Canada and the US simultaneously, such as Buy America provisions and equivalent Canadian policies. Lion also has a battery factory in Mirabel, Quebec, which will allow it to manufacture its own batteries and take greater control over the supply chain for its vehicles' most critical component.

From its very first vehicle, Lion has developed zero-emission vehicles based on direct end-user feedback, including optimizing visibility and reducing turning radius to ensure rapid adoption from drivers. Our technology has been tested and proven in real-world applications for over 6 years, with hundreds of our electric vehicles having been deployed for several years now. We have collected battery data from all our vehicles ever since the first one was delivered, and with this unmatched experience, have developed an expertise with zero-emission vehicles that cannot be equaled. Our leadership in this industry stands out because Lion is one of only a few OEMs that does not offer a retrofit solution (converting diesel trucks and chassis into electric trucks). Our trucks are purpose-built to be electric, designed and manufactured from the ground-up to maximize efficiency and compatibility with a zero-emission powertrain.

Since Lion vehicles are purpose-built to be electric, our truck components require very little maintenance, thus reducing total cost of ownership for fleets. Because there are fewer moving parts and no fluids on our electric vehicles, the cost to maintain and service them is much less than that of an internal combustion vehicle. All Lion vehicles also feature regenerative braking, which reduces the frequency at which the brakes must be replaced, further minimizing our vehicles' total cost of ownership.

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In addition to providing operational and economic benefits, our zero-emission vehicles also eliminate criteria pollutant and greenhouse gas emissions in American communities. This creates a cleaner, healthier, and safer environment for drivers, mechanics, and the communities in which these trucks operate every day. Above all, Lion values safety, reliability, and the health of the communities in which it serves and lives. In addition to this, Lion has gone above and beyond to fight for everyone's right to breathe clean air. Lion continues to influence policies on vehicle electrification and supports local, state, and federal efforts to accelerate the adoption of clean transportation technologies. Our end-users have always been the focus of our manufacturing policy, but when it comes to protecting the health of communities, Lion has decided to take the lead and support efforts to educate legislators, agencies, fleet operators, and the public at large about the benefits of zero-emission transportation.

- Lion joined discussions with Sierra Club, a national and grassroots non-profit organization committed to protecting the environment, to identify the most effective methods to promote electric vehicles: through legislators' proposed policies and agendas, their plans to eliminate criteria pollutant and greenhouse gas emissions in their communities, and to leverage available funding opportunities to reduce the upfront cost of electric vehicles to fleets.
- To raise awareness about electric transportation, a Lion vehicle was the first of its kind to compete in school district "rodeos."
- Because of Lion's consistent leadership on issues involving greenhouse gas emission reduction and electrification of the student transportation industry, the Center for Transportation and the Environment featured key members of the Lion team in an article on women in the clean transportation sector.

As NCSA can see, Lion is equipped with the experience, resources, staff, and knowledge to meet and exceed all your electrification needs. We have a proven record of deployment success where other OEMs are still in the prototype phase. Lion has the advantage of being well-positioned today to significantly grow its market share in North Carolina in both the short- and long-term.

One of the most impactful actions a fleet can take to reduce its carbon footprint is to begin its transition to electric. By integrating Lion zero-emission trucks into your everyday routes, your members will become a leader in sustainability, protecting the environment for future generations and improving air quality in communities across North Carolina. In the 21st century, now more than ever it has become critical to demonstrate social responsibility as growing concerns over climate change have permeated all aspects of everyday life. NCSA has the chance now to help contribute to a healthier, safer, and more breathable future for all by choosing Lion as a vendor for Heavy Equipment on its zero-emission journey.

In Summary:

Global Leader in Deploying Electric Vehicles • Lion has already deployed over 950 zero-emission vehicles that have collectively accumulated more than 10 million miles of service and recorded data. We are in a unique position to have years of operating data and a history of advancing our electric vehicles.

Turnkey Solution • Lion is not just an electric commercial vehicle manufacturer. Lion is your partner throughout your entire journey to zero-emissions, singularly capable of providing a complete turnkey solution. Our Lion**Energy** team can provide start-to-finish infrastructure support to help fleets navigate the complex process of deploying charging stations. The Lion **Customer Success Team** will train the fleet mechanics and technicians on the basics of EV maintenance and service to create a knowledgeable customer base that is comfortable working on electric vehicles. When data and reports need to be

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generated and shared, the LionBeat can simplify the process with real-time vehicle tracking and monitoring. And there to support the fleet throughout the entire lifetime of your Lion vehicles is the BrightSquad, ready to provide remote or in-person service and technical expertise at any moment.

Annual Production Capacity of 2500 Vehicles and Growing • As demand has increased for our electric vehicles throughout the years, we have scaled our manufacturing capacity to be able to accommodate this growing need. Our factory in Joliet, Illinois, will increase our overall manufacturing capacity by 20,000 electric vehicles-per-annum at full scale, while our battery assembly facility in Mirabel, Quebec, will grant us greater control over our battery supply chain, an advantage few other OEMs enjoy.

Innovation • Lion has perfected our electric truck design over years of end-user feedback and collected data. Our zero-emission trucks have innovative technological features and components that make them among the highest quality electric vehicles on the market today.

Driven to Make a Difference • Lion believes that protecting the environment and the health of our communities is critical to creating a sustainable, healthy, safe future in which everyone has an equal opportunity to thrive. Lion's motivation as a company is to make a difference in our communities by providing clean transportation for all.

Born to be Electric • Our trucks are not retrofitted diesel vehicles. They are born to be electric.

Committed to 2023 Deliveries • Lion has one of the fastest delivery timelines of zero-emission medium- and heavy-duty vehicles in the industry.

Lion would like to thank NCSA for the opportunity to submit its response to the Invitation to Bid for Heavy Equipment. Our core values – to provide fleets with the most innovative and turnkey solutions, meet their operational needs, and achieve their sustainability goals – align closely with NCSA'S vision and we look forward to the chance to work with you to deliver high-quality electric trucks on time with robust service and training

Sincerely,

The Lion Electric Co. USA Inc. Team



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TECHNICAL ASSISTANCE: LION CUSTOMER SUCCESS TEAM

Operating an EV dealership requires specialized training and skillsets that traditional dealerships typically do not possess. Lion has used its six years of real-world electric vehicle experience to build an impressive portfolio of resources to establish an optimized procedure to maximize sales, reduce downtime for fleet clients, and meet local laws.

Presenting: The Lion Customer Success Team

Based on our experience deploying and servicing zero-emission vehicles across North America, Lion has developed the Lion **Customer Success Team** to provide a full schedule of classes to customers. We offer in-person training along with video trainings to as many individuals as necessary: drivers, operators, and other fleet professionals.

Trainings are offered to a wide range of industry stakeholders such as:

- Drivers
- Mechanics
- Technicians
- Air districts
- Business officials
- Transportation professionals



Lion has created a customer training program that is tailored to each client's unique training needs. A few weeks before the delivery of the new Lion electric truck or trucks, Lion's **Customer Success Team** will reach out to schedule the fleet's first training when the vehicle or vehicles arrive. At this time, the **Customer Success Team** will gauge the fleet's exact learning needs: Would the drivers like EV driver training? Does your fleet need a longer, more in-depth training session, or would you prefer a shorter, high-level training session? Based on your answers to these questions, Lion's **Customer Success Team** will design a personalized training curriculum, customized to NCSA's members' unique knowledge profile.

On the day of the truck's delivery, the client's assigned **Customer Success Team** member will join you at your fleet site to provide essential vehicle training from the very first moment. This initial learning session will cover critical topics such as truck operation, energy-efficient driving techniques, driver controls, and owner's manual review, just to name a few. A high-level training can be completed in as little as one hour, while a more in-depth training can last as long as 3 hours or more, depending on how much EV education the fleet would like to receive. Every Lion vehicle delivery has a **Customer Success Team** member present, even for returning customers. Our goal is to make the entire fleet electrification journey as simple and effective as possible.

If the client would like technical vehicle training, your dedicated **Customer Success Team** member can refer your fleet to one of our Technical Trainers, who will provide comprehensive service and maintenance

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education to your fleet's in-house mechanics and technicians. This training can be offered in addition to the driver education already provided as part of the initial delivery package.

The Lion **Customer Success Team**'s primary goal is to provide an overview of how zero-emission vehicles work at different comprehension levels based on the training audience's existing knowledge. In most cases, electric trucks are new for customers, and education is necessary to help bridge the knowledge gap from diesel to electric. That is why the **Customer Success Team** curriculum is focused on an interactive, hands-on learning experience that includes a truck walkthrough, step-by-step operational instructions, and a chance for NCSA member's staff to ask as many questions as needed. Lion has found that when a wide range of individuals participate in these trainings, they are typically more receptive to this zero-emission technology and eager to learn how to operate, drive, and maintain these electric trucks.

Lion's training curriculum is typically taught in-person at customer fleet sites, but can also be presented at any of Lion's Experience Centers to ensure that our EV expertise is shared with all interested stakeholders, such as business officials, transportation professionals, air quality agencies, local first responders and fire departments, and other relevant parties. Trainings hosted at our Experience Centers tend to be longer, more in-depth sessions involving presentations, interactive truck demos, and safety lessons to ensure that the larger audience receives adequate instruction.

From this initial training, the assigned **Customer Success Team** member will be dedicated to your fleet's electrification journey. If at any time your drivers or operators have a question about their new Lion electric truck, even something as simple as, "What does this button do?" they can call your designated **Customer Success Team** member and promptly receive a helpful answer. This Lion representative will remain available to provide assistance as needed.

The Lion **Customer Success Team** can also offer refresher trainings to existing customers to ensure that your fleet's EV knowledge remains accurate and up to date. Has your fleet had staff turnover, additional Lion trucks delivered, or simply needs a reminder on how to optimally operate your electric vehicles? Lion's **Customer Success Team** can provide follow-up training to reduce knowledge gaps and improve your drivers' confidence operating your electric trucks.

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CONCLUSION

As the leader in medium- and heavy-duty electric vehicles with more than 950 units on the road today and an annual manufacturing capacity of 2,500 vehicles, Lion is prepared to immediately support all NCSA members' needs, specifications, and questions throughout your entire electrification journey. Over the past decade, we have built up a team of experts with unparalleled experience who specialize exclusively in all-electric commercial vehicle deployment. Our unmatched delivery record and unique turnkey solution makes us the ideal vendor for your clients on their path to a zero-emission future.

Lion's strongest values include safety, reliability, and the health of the communities it serves. Our electric trucks represent more than just a competitive advantage for fleets by reducing their operational and maintenance costs, they also eliminate criteria pollutant and greenhouse gas emissions, creating a healthier world for our communities. An investment in a Lion zero-emission truck is an investment in your fleet, your community, and the planet.

Lion would like to thank the North Carolina Sheriff's Association again for the opportunity to submit its response to the Heavy Procurement Invitation to Bid. Our partnership represents the greatest value for you and we greatly appreciate your thoughtful consideration of our proposal. We look forward to the chance to work with you to deploy electric trucks that will make a real difference for your fleet operations, your community, and the environment.

The Lion team remains available to answer any questions should they arise. We will distinguish ourselves through our transparency towards NCSA and your procurement officials, our willingness to innovate and tailor our turnkey solutions to your unique needs, and our ability to comply with all established requirements and specifications.

Thank you again for taking the time to read our response about our zero-emission trucks. Lion eagerly awaits the opportunity to work with NCSA and its members to create a healthy breathing environment for communities for years to come.

In Partnership,

The Lion Electric Co. USA Inc. Team