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Participating Organizations



Electric School Bus Heroes



Clean Cities Partners





## Team Live Green

**Daphne Dixon** Executive Director and Co-founder

**Andrea McCarthy** Electric Vehicle Analyst & Conference Manager

**Kelsey McCormack** Program Director

**Abbie Winter** Technical Support Manager

**Rachel McLoughlin** Social Media Coordinator

**Kali Katz** National Outreach Coordinator

**Laurel Murphy** National Outreach Coordinator

**Emily Zimmerman** Webmaster





# Program

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10:00am-10:15am **Welcome** Daphne Dixon, Co-founder & Executive Director, Live Green

10:05AM-10:15am **Electric School Bus Toolkit Program** Daphne Dixon, Co-founder & Executive Director, Live Green

10:15am-10:30am **Opening Remarks** Bill McKibben, Co-founder & Senior Advisor, [350.org](https://350.org)

10:30am-11:15am **Electric School Bus Toolkit: Local Champions** Panel moderated by Thomas Chorman, Senior Engineer, National Grid

11:15am-11:20am **Break**

11:20am-12:00pm **How Legislative Action Supports Electric School Bus Adoption** Panel moderated by Matt Macunas, Legislative Liaison & Director of Transportation Initiatives, CT Green Bank

12:00pm-12:45pm **Electric School Buses: Success Stories Across the Nation** Panel moderated by Richard Lee, Director of School Bus Sales, Eastern USA, Lion Electric Bus Company

12:45pm-1:00pm **Closing Remarks** Matthew Goetz, Senior Associate & Program Manager, Georgetown Climate Center

1:00pm-1:30pm **Networking Reception**



# NCSD 2020: Electric School Bus Toolkit

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## Objective of the NCSD 2020: Electric School Bus Toolkit:

To be a catalyst for electric school bus adoption by expecting every person who attends this conference - to take an immediate action.

## Metrics:

- 25+ states registered
- 200+ participants
- Fleet managers, non-profits, students, Clean Cities Coordinators, state agencies, DOT, DOE, school bus operators, charging infrastructure, OEMS & more





# Live Green/Connecticut Southwestern Area Clean Cities Coaliton

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**Mission:** Live Green integrates the 17 Global Sustainable Development Goals into municipalities, businesses, and communities through local, innovative, scaleable outreach programs that create behavior change.



**Connecticut Southwestern Area Clean Cities Coalition:** Our coalition is part of a national Clean Cities network that is supported by the Department of Energy's Vehicle Technology Office. Nearly 100 local coalitions work with stakeholders and fleet directors across the country on how to transition their fleets.

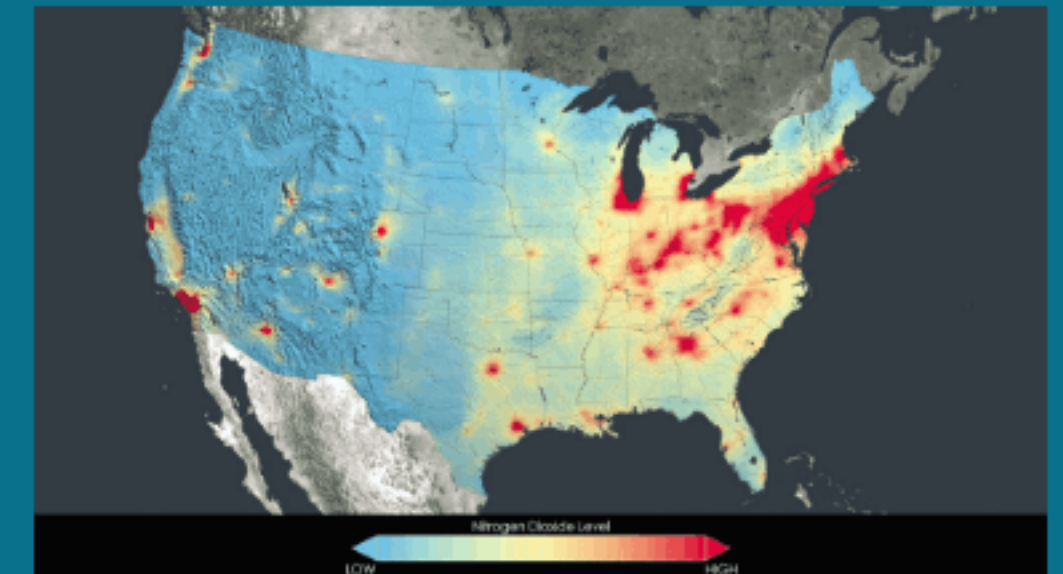
**Why Electric School Bus Toolkit 6-Week Program?**



# Why are electric school buses important?

## Air Quality

- Diesel-powered vehicles account for nearly half of NOx and over two-thirds of all particulate matter emissions from US transportation sources
- Diesel exhaust contains as many as 40 hazardous air pollutants as defined by the Clean Air Act
- Riding a diesel bus everyday can increase a child's risk for cancer by 4%, lower respiratory symptoms by 6%, and daily asthma hospitalizations by 1%.
- 71% of the cancer risk from air pollutants for the average Californian is associated with diesel emissions
- Children are exposed to airborne particulate concentrations inside buses that are sometimes 5-15 times higher than background levels
- Concentrations of air pollutants have dropped significantly since 1990, but are still dangerously high in many parts of the country



Average Annual NOx emissions

Source: NASA





# Why are electric school buses important?

## International, National & Regional Goals



Organization	Goal	By When
Sustainable Development Goals	Net zero emissions	2050
International ZEV Alliance	Make all passenger vehicle sales ZEVs	2050
ZEV Task Force – Memorandum of Understanding with 10 states	3.3 million ZEVs on the road	2025





# The Barriers

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- Up-front costs
- Electric school bus information is not getting to decision makers
- Misinformation gets in the way of progress
- Feels risky
- Requires leadership and sense of responsibility
- Above and beyond job requirements
- Procurement process can be confusing
- Multiple infrastructure options
- Grant process
- Resistance
- Lack of community support
- Value maintaining diesel buses over the health and environmental benefits of electric school buses



# The Solution: Electric School Bus Toolkit 6-Week Program

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## Module 1: Electric School Bus Team

26 participants



## Module 2: Outreach & Education

Electric School Bus Basics

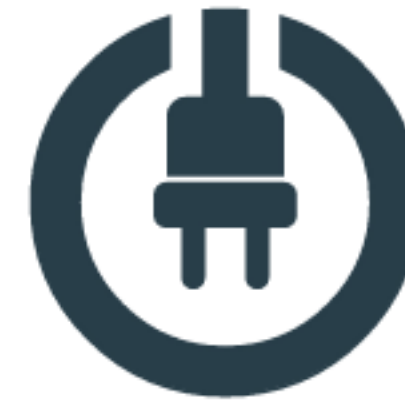
35 participants



## Module 3: Procurement & the RFP Process

Fairfield Public Schools

34 participants



## Module 4: Infrastructure

Nuvve

39 participants



## Module 5: Defining Your Project

Lion Electric Bus Company

39 participants



## Module 6: Funding Opportunities & Next Steps

CT DEEP

Sustainable CT

56 participants

# Electric School Bus Toolkit Metrics

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## Total Participants

24 towns

36 cohort  
participants

53 program guests



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## Certificate of Completion

16 towns

18 participants



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## Identified Key Decision Makers

16 towns

20 decision makers



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## VW & DERA Grants

16 towns working  
regionally

6 towns planning to  
apply this year



# Electric School Bus Toolkit:

## Value Proposition



Providing a strategy and process to consistently deliver information about the benefits of electric school buses to decision makers



Creating a pipeline of applications for VW Settlement grant funding



Participants receive Introductions to subject matter experts and technology leaders, to help mentor and lead them



Filling a void by providing innovative training that doesn't currently exist that leads to behavior change in key decision makers

# The Electric School Bus Toolkit

## Certificate of Completion

The following towns successfully met or exceeded the requirements of the program:

- Town of Bloomfield
- Town of Branford
- Town of Easton
- Town of Farmington
- Town of Fairfield
- Town of Greenwich
- City of Hartford
- Town of Old Lyme
- Town of Orange
- Town of Ridgefield
- Town of Simsbury
- Town of Wallingford
- City of Waterbury
- Town of West Hartford
- Town of Weston
- Town of Wilton





# EV Toolkit Programs

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Electric School Bus Toolkit 6-Week Program



Municipal EV Toolkit 12-Week Program



Learn more: Daphne Dixon | 203 536 4695 | [daphne@livegreenct.org](mailto:daphne@livegreenct.org)



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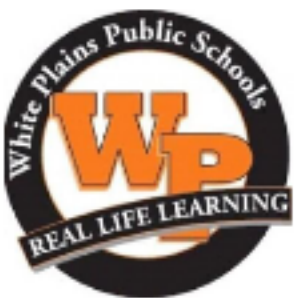
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