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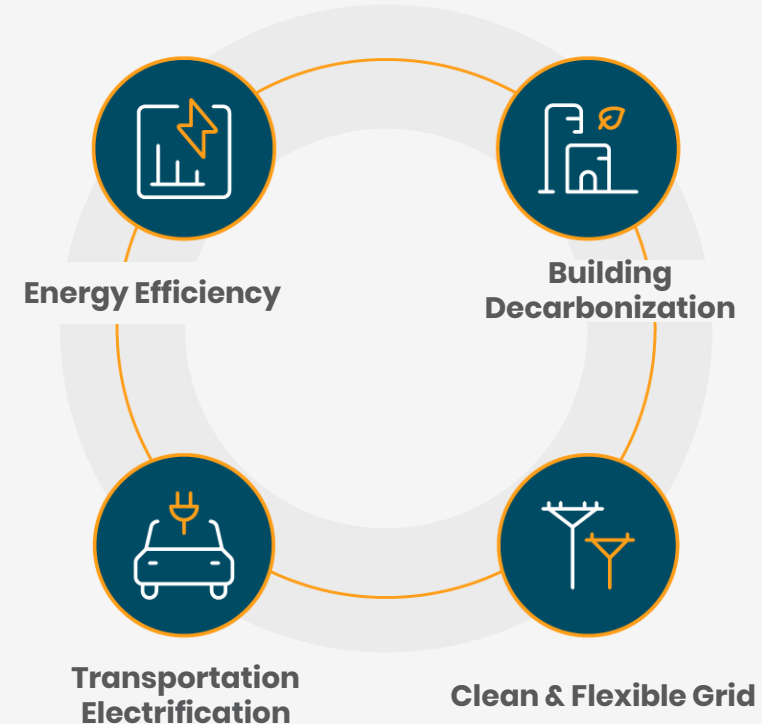
NY Electric School Bus Fleet Studies Through NYSERDA FlexTech and P-12 Clean Green Schools

May 2023

VEIC: High-impact energy solutions that decarbonize buildings, transportation, and utility grids, today.

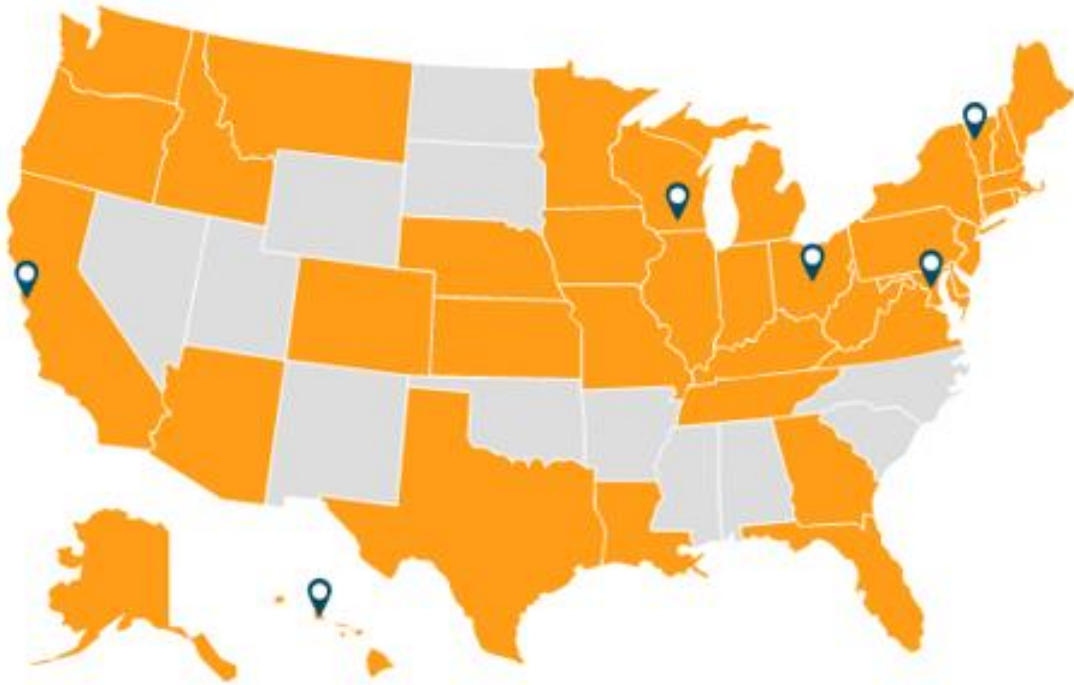
- Nonprofit founded in 1986
- National consulting practice working across over 75% of the country
- Program design & implementation for award winning energy efficiency and clean energy programs
- Strong equity focus – Since 2020 delivered over half of our program benefits in socially vulnerable communities

Making an impact



Our footprint

National reach, local approach



VEIC offices



Where we work

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We help our clients meet their clean energy goals through innovative and equitable solutions that benefit them, their partners, and their communities.

Experts that move us forward

Over 325 employees across 6 offices and remote

Consultants, engineers, policy experts, M&V specialists, program designers and implementers, project managers, marketing experts, consumer insights specialists, researchers, and analysts

Demonstrated Impact

Since 2000

GHG reduced

112M
Metric tons

kWh saved

3.1B
kWh through
2022

Customer saving delivered

\$4.9B
lifetime of
efficiency measures
(2000–2022)



NY Electric School Bus Policy & Programs



New York Electric School Bus Mandate

- NY State's Fiscal Year budget 2022-23 establishes commitment to:
 - All new school bus purchases must be zero-emission by 2027 (some exceptions may apply)
 - Fully electric school bus fleet by 2035
- Vehicle incentives available through NY Truck Voucher program
- Charging incentives available through utilities
- Fleet studies for schools funded by NYSERDA

Clean Green Schools Initiative

- \$59M in funding to advance clean energy and energy efficiency solutions to improve indoor air quality and reduce emissions for more than 600 under-resourced public Pre-K-12 schools
- All public schools across NYS that are designated as high-needs by the [New York State Education Department](#) or located in a [disadvantaged community](#) will be eligible to participate in the program.
- Through this program schools are eligible for 'Clean Transportation Studies' which can help districts develop fleet transition plans. The program can cover up to **100%** of the study, depending on need status and disadvantaged community status.
- **ANCA region:** 54 eligible school districts, representing 157 schools (33 in DAC) and **Orange & Rockland** territory: 4 eligible school districts, representing 25 schools.



NYSERDA FlexTech Program

- Supports New York State Commercial, Industrial and Multifamily customers who pay into the Systems Benefit Charge by providing a cost-share for credible, objective technical assistance services for buildings.
- Normally Fleet support is not included but P-12 schools that are ineligible for NYSERDA's Clean Green Schools Initiative (PON 4924) are eligible to utilize the FlexTech Program for fleet studies.
- The primary Technical Assistance Service areas available through the Program include targeted or comprehensive technical analysis including energy studies and/or energy planning
- Covers up to 75% of the cost of 'Clean Transportation Studies' for schools, and up to 50% for contractors.
- [Flexible Technical Assistance Program – NYSERDA](#)



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VEIC Electric School Bus Expertise & Services



VEIC is a FlexTech Consultant with ESB Experience

Our goal is to achieve impact by accelerating electric school bus adoption that will:

- Reduce emissions (greenhouse gases and other harmful pollutants)
- Improve health of students, staff & community members
- Prioritize disadvantaged communities who will benefit the most from technical assistance & ESB adoption



VEIC is a national leader in school bus electrification



- Leading electric school bus projects since 2014
- Provided workshops and events to raise awareness of technology in 15 states
- Leading demonstration projects to test technology in 4 states
- Providing fleet studies and technical assistance in 7 states
- Developing national resources to support school districts w/electrification

VEIC Electric School Bus Services

- **Fleet Study Capabilities**

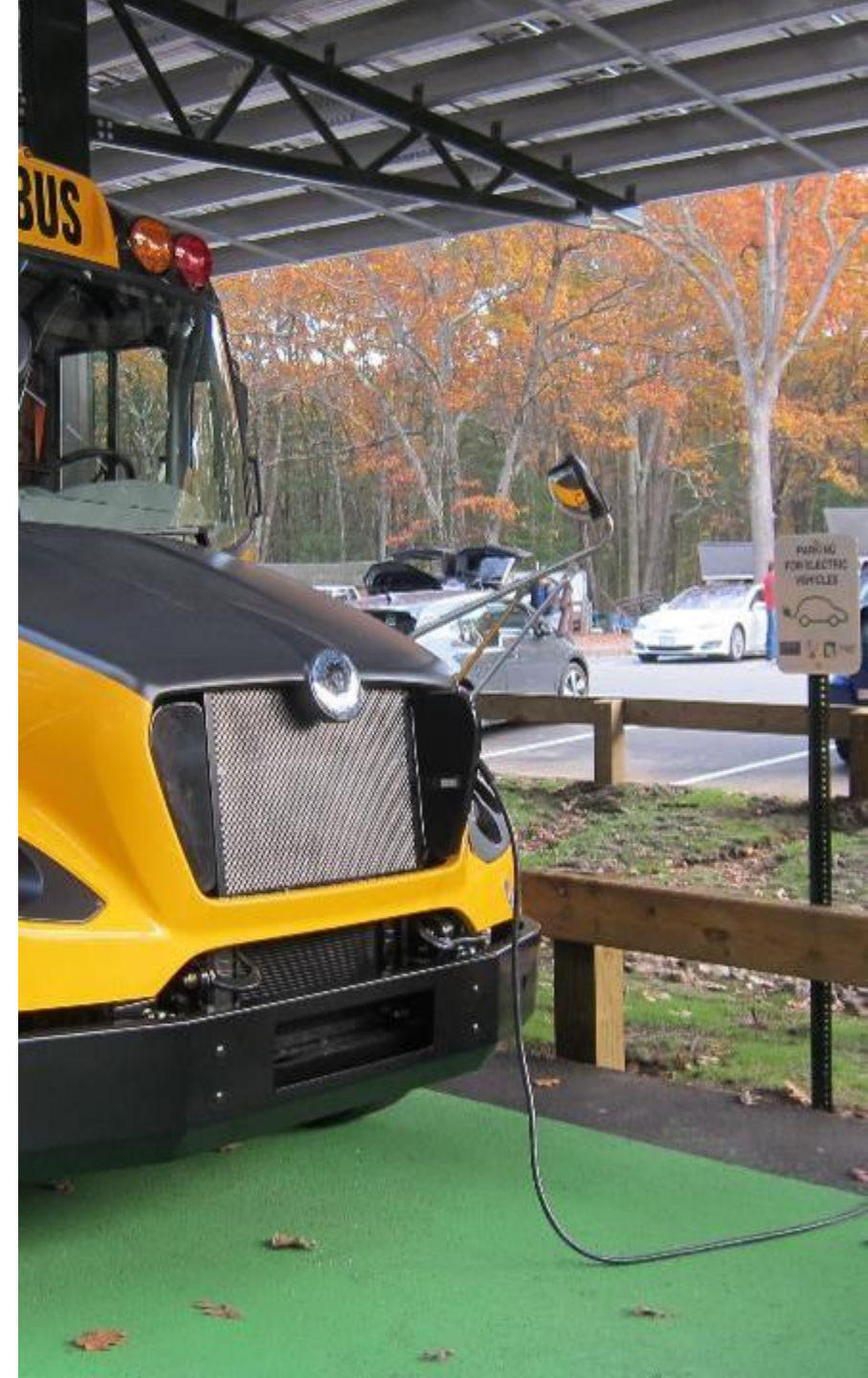
- Identify vehicles suitable for electrification based on operational needs & funding requirements
- Site assessments to determine readiness to host chargers
- Identify appropriate charging infrastructure to support operations and selected vehicles
- Assess economic costs and benefits of ESB adoption (total cost of ownership, etc.) including rate impacts from charging
- Assess environmental benefits of ESB adoption
- Identify funding opportunities
- Develop transition plans and timelines
- Support utility and vendor engagement



VEIC Electric School Bus Services

Additional Capabilities to Support Schools

- Demonstrations & Deployment Assistance
 - Procurement support (evaluate warranties, training plans, service options)
 - Project manage installation of chargers
 - Coordination with utilities and vendors
 - Engage with vendors to troubleshoot of performance issues
- Performance Evaluation
 - Develop evaluation plans to track core metrics
 - Collect data from vehicles, chargers, submeters
 - Analyze and report on findings



Sample Electric School Bus Projects

- NYSERDA/NY Community Trust Electric School Bus Workshops
- MassCEC Electric School Bus Advisory program
- World Resources Institute Resource Development and Technical Assistance
- Montana DEQ Electric School Bus Demonstration
- Maine Electric School Bus program technical assistance, outreach, evaluation
- Vermont Agency of Natural Resources Electric School & Transit Bus Pilot
- MA DOER Electric School Bus Demonstration
- US DOE MidAtlantic Electric School Bus Experience Project



How Can We Collaborate?

VEIC seeks to bring its years of experience working directly with school districts on electric school bus adoption to help NY school districts develop actionable electric school bus transition plans.

How best can we work with NY NAPT to support its members?





Key Transportation Electrification Contacts

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