

New York School Bus Fleet Electrification Planning



NYSERDA



Prepare your district with Fleet Electrification Planning services funded by NYSERDA

A Fleet Electrification Plan is a roadmap to electrify a district or contractor's entire school bus fleet by 2035. This includes a comprehensive evaluation of existing fleet operations and depot electrical capabilities. The plan will serve as a guide, or action plan, that identifies and prioritizes recommendations to help fleet owners make informed decisions about bus and infrastructure purchases. Completing a plan also unlocks additional funding for electric school buses and chargers.

NYSERDA provides the following funding to support the completion of a Fleet Electrification Plan:

- 100% funding for Priority Districts
- 75% funding for non-Priority Districts
- 50% minimum funding for contractors, cost-share amount may increase dependent on depot location and comprehensiveness of study

Completing a Fleet Electrification Plan can unlock the following benefits:

- \$30,000 in additional NYSBIP Charging Voucher Funds per bus
- Increased vehicle caps for the NYSBIP School Bus Voucher Program

Use our energy consultants... or your own!

NYSERDA can provide a list of pre-qualified consultants who can prepare an application on your behalf, resulting in minimal effort on your part. Want to use your own consultants? Not a problem. Just work with your consultant to submit a signed application, scope of work, and budget.

What does a Fleet Electrification Plan include?

A Fleet Electrification Plan includes a comprehensive evaluation of existing fleet operations, analysis of current site electrical capabilities, and a plan for electrifying the Purchaser's entire fleet by 2035. The plan will serve as a guide that identifies and prioritizes actions to help Purchasers make informed decisions about electrifying their fleets.



PLAN to meet New York State's zero-emission bus mandate



CUSTOMIZE an actionable and phased electrification plan



ANALYZE routes and account for technology changes over time



ASSESS utility connections and possible infrastructure upgrades



IDENTIFY key roles and responsibilities



PREPARE for annual Education Law 3638 reporting requirements

Key Components of Fleet Electrification Plans

The following key sections are included in Fleet Electrification Plans that qualify for additional benefits:

Section	Description
Electrification Goals	An overview of the electric bus assessment and the approach to fleet electrification. This may include the proposed timeline and milestones for electrification.
Route Analysis	Analysis of the time and distance involved in each available bus route, which is necessary to understand the range requirements. The analysis will define the specification requirements (hilly, etc.) for each bus route to provide recommended minimum battery requirements and the total energy required to charge the batteries.
Utility Assessment	An assessment, performed by your Utility, that analyzes your existing grid connection, determines how much additional electrical capacity is required, and provides a rate analysis for the expected charging patterns. This assessment will tell you what equipment needs, upgrades, and costs are needed to provide that additional power and may include a work request submitted by the consultant that notifies the Utility about full fleet electrification power needs by 2035.
Charging Strategy	Development of a charging strategy that includes Charger power ratings and quantities and preferred times of day to charge. The charging strategy will include identification of demand during on-peak and off-peak times.
Phasing Plan	Development of a phasing plan identifying necessary capital works projects, vehicle replacement plan, and phased plan for Charger Installation aligned with vehicle replacement plan. This phasing plan should include a schedule, site plan and transition cost estimate for Utility upgrade/sitework, bus purchases, and Charger purchases, as well as a comparison of operating costs.

This table can also be found, along with information on incentives, in the New York School Bus Incentive Program Implementation Manual.

The Fleet Electrification Plan projects include coordination with each school district's specific utility provider, including competing a capacity and rate analysis from the utility provider. For districts that may have already completed fleet assessments or other forms of fleet advisory services from utilities, these can be incorporated in the Fleet Electrification Plan and updated with more specific route information.

Ready to get started?

Learn how NYSERDA can support your Fleet Electrification Plan at nyserdera.ny.gov/Fleet-Electrification-Planning

If you have questions or need support, reach out to SchoolBus@nyserdera.ny.gov



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