

# Log of changes: Dataset on Electric School Bus Adoption, Version 3 (Summer 2022)

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## New Data

We added the following variables to the dataset. These data were already available at the appropriate spatial scale (school district, bus, or state), so no transformation or analysis was needed to add them to the dataset.

In Sheet 1. District-level data:

- Number of ESB batches\* in school district
- Size of batch 1
- Size of batch 2
- Size of batch 3
- Size of batch 4
- Percent of fleet that is committed electric

In Sheet 2. Bus-level data:

- Batch Number

In Sheet 6. State school bus fleets

- Total school buses (Source: School Bus Fleet Magazine)
- Total school buses (Source: Federal Highway Administration)
- Percent of committed ESBs as a share of School Bus Fleet Magazine total
- Percent of committed ESBs as a share of Federal Highway Administration total
- Range of lowest percentage to highest percentage of committed ESBs
- Average of percentages of committed ESBs (Atlas EV Hub, School Bus Fleet Magazine, Federal Highway Administration)
- Pupil transportation requirement (Yes, No, Partial)
- Details of pupil transportation requirement
- School transportation funding method
- Source of pupil transportation requirement and funding method data

\*Batch definition: Electric school buses are in the same batch if any of their time-series data (when they were first awarded, ordered, delivered, or operating) occurred in the same quarter or in adjacent quarters (ie. Q1 2020 and Q2 2020).

## Substituted Data

The following variables have been updated with more recent data.

In Sheet 1. District-level data:

- 1b. LEA Name
- 1d. Street address 1
- 1e. Street address 2
- 1f. City
- 1h. ZIP Code
- 3a. Number of ESBs committed
- 3b. Has delivered or operating ESBs?
- 3c. Number of ESBs awarded

- 3d. Number of ESBs ordered
- 3e. Number of ESBs delivered
- 3f. Number of ESBs operating
- 3g. Government agency involved (non-funding)
- 3h. Utility/Energy company involved 1
- 3h. Utility/Energy company involved 2
- 3h. Utility/Energy company involved 3
- 3i. Other groups involved 1
- 3i. Other groups involved 2
- 3i. Other groups involved 3
- 3j. Other notes
- 7a. Source 1
- 7a. Source 2
- 7a. Source 3
- 7a. Source 4

The following variables previously contained unweighted averages that were labeled as population-weighted averages. The data have now been corrected to be population-weighted.

- 5b. Percent non-white and/or Hispanic
- 5c. Percent low-income (200% of federal poverty level)
- 5f. PM 2.5
- 5g. Ozone

In Sheet 2. Bus-level data:

- 1b. State
- 1d. Street address 1
- 1e. Street address 2
- 1f. City
- 1h. ZIP Code
- 2l. Fleet operator 1 (if applicable)
- 2l. Fleet operator 2 (if applicable)
- 3a. Number of ESBs committed    3k. Current status of bus
- 3l. Quarter awarded
- 3m. Quarter ordered
- 3n. Quarter delivered
- 3o. Quarter first operating
- 3p. Bus OEM
- 3q. Electric powertrain manufacturer
- 3r. Model
- 3s. Type
- 3t. Dealer
- 3u. Multiple funding sources used?
- 3v. Funding source 1
- 3w. Agency administering funds
- 3v. Funding source 2

3w. Agency administering funds 2  
3v. Funding source 3  
3w. Agency administering funds 3  
3v. Funding source 4  
3w. Agency administering funds 4  
3x. Dollar amount toward bus  
3y. Charging company  
3z. Charging funding source  
3aa. Dollar amount toward charger  
3ab. Notes 1  
3ab. Notes 2  
7a. Date of most recent source  
7b. Source 1  
7b. Source 2  
7b. Source 3  
7b. Source 4  
7b. Source 5

In Sheet 4. Counties

1b. LEA Name  
1c. LEA ID  
9a. County name (State)  
9b. County FIPS Code  
9c. Number of counties in LEA

In Sheet 5. Congressional dist.

1b. LEA Name  
1c. LEA ID  
10a. Congressional district  
10b. Congressional district code  
10c. Number of congressional districts in LEA

In Sheet 6. State school bus fleets:

11c. Number of committed ESBs  
11d. Percent committed ESBs