

DOCKETED

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Item 4: Update on Data Visualization and Exploration Tools

February 15, 2023 Business Meeting

Jason Harville, Director of Energy Data and Analytics
Energy Data and Analytics Office



Benefits to Californians

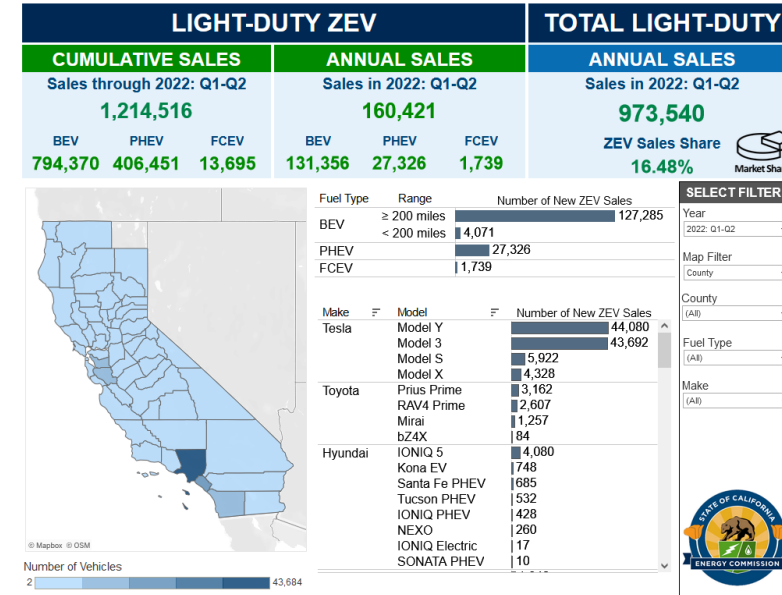
- Explore CEC data directly from our website
- Faster, more detailed, more up-to-date access to CEC data
- Significantly reduced staff time and resources spent on data requests





Tableau

- Interactive, online visualizations
- Always up-to-date



For additional information about the data and how to cite this visualization, see the [dashboard](#).

<https://www.energy.ca.gov/data-reports/energy-almanac/zero-emission-vehicle-and-infrastructure-statistics/light-duty-vehicle>

Direct public access
Cost and time savings



Strategy

“Accessibility without Compromising Quality”

- Each visualization has its own accessible webpage
- Consistent standards across all visualizations
- Efficient process to guide staff through development and publishing
- Staff training and hiring a visualization specialist

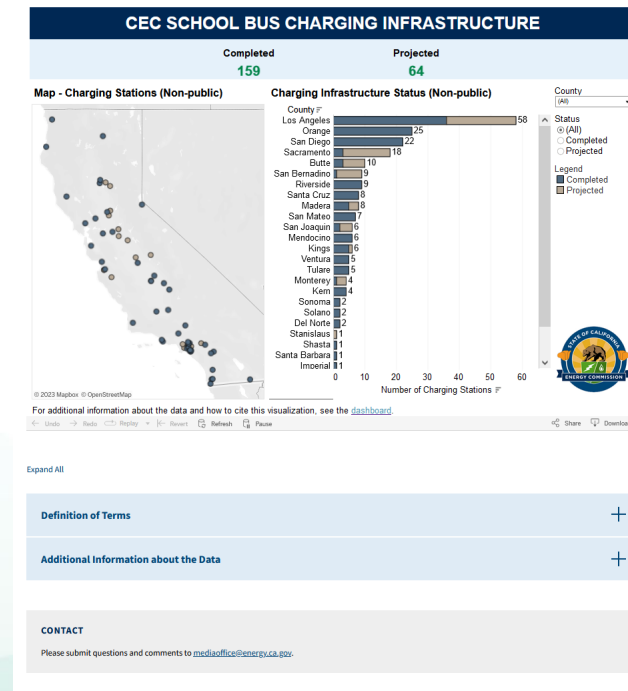
California Energy Commission > Data and Reports > Energy Almanac > Zero Emission Vehicle and Infrastructure Statistics > CEC Funded School Bus Chargers

CEC Funded School Bus Chargers

Senate Bill 110 allocated \$75 million from Proposition 39 funding to create the California Energy Commission School Bus Replacement Program to replace California’s oldest diesel buses with all-new battery electric buses and install supporting charging infrastructure. This dashboard will be updated quarterly to display the progress in delivering CEC awarded electric school buses and installing charging infrastructure throughout California. The California Air Resources Board (CARB) also funds electric school buses and supports the transition to a zero-emission school bus fleet. Dashboard is best viewed from a computer. Visit [full page layout of dashboard](#) or [download data](#), or return to [dashboard collection page](#).

Other Dashboards in this Collection:

[New ZEV Sales](#) | [Light-Duty Vehicle Population](#) | [Medium- & Heavy-Duty Vehicle Population](#) | [EV Chargers](#) | [Hydrogen Stations](#) | [School Buses](#) | School Bus Chargers



<https://www.energy.ca.gov/data-reports/energy-almanac/zero-emission-vehicle-and-infrastructure-statistics/cec-funded-school-0>



Progress

- Successful CEC-wide rollout in December
- 400+ staff have access to work and collaborate
- 15 Tableau visualizations live on the public website
- New public webpage to compile all visualizations

The CEC is actively developing new tools across many subject areas, including Natural Gas, Infrastructure and Planning, and Renewables, and will publish them on this page as they become available.

ELECTRICITY

Annual Generation by Plant

Annual Generation by Unit

Heat Rates

QFER Power Plant Annual Generation
Annual generation for power plants operating in California.

QFER Power Plant Unit-Level Annual Generation
Detailed annual generation by unit for power plants operating in California.

QFER Power Plant Heat Rates
Heat rates for natural gas power plants operating power plants operating in California.

TRANSPORTATION

CEC Funded School Buses
Explore how many electric school buses were delivered and projected in California.

CEC Funded School Bus Chargers
Explore how many school bus chargers were completed and projected in California.

Clean Transportation Program Investment Map
The program's projects can be filtered by project type, low-income or disadvantaged community status, legislative districts, and more.

<https://www.energy.ca.gov/data-reports/data-exploration-tools>



Goals for 2023

- 5 visualizations per division
- Implement formal staff training
- Reduced staff time on data requests





Energy Data Modernization and Analytics Workshop

- Moved to last Jan 13th, public comments received Feb 3rd
- 2 panels: data sharing, data analytics for the public
- ~150 attended via Zoom
- Panel discussions and public comments emphasized value of data sharing and supported CEC's role
- Tableau will play an important role in this vision