CO$_2$Impact

Verifying Carbon Emissions From Electric Vehicle Charging

CO$_2$Impact™ is the only solution tested by the U.S. Department of Energy (DOE) for verifying CO$_2$ emissions from EV charging.
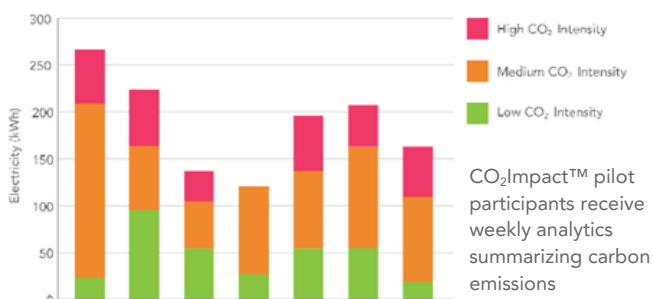
A Challenge for Today's EV Fleets

Electric vehicles produce zero direct tailpipe emissions. However, the electricity used to charge EVs may come from carbon-emitting sources. Calculating these indirect emissions is complex since the energy mix varies by time and location. Some EV fleet owners require privacy around drivers and vehicle activity, so determining the carbon intensity per charging session while protecting sensitive information is a challenge.

CO$_2$Impact™: A Solution for Verifying CO$_2$ Emissions

CO$_2$Impact™ leverages Web3 technologies to calculate carbon emissions from EV charging. We access vehicle telematics and electricity grid data to verify carbon intensity

Weekly Charging Activity by Carbon Intensity

Legend:
- High CO$_2$ Intensity
- Medium CO$_2$ Intensity
- Low CO$_2$ Intensity

CO$_2$Impact™ pilot participants receive weekly analytics summarizing carbon emissions

Unlock significant ROI potential using a members-only portal, which includes:

EV fleet operators benefit from the ability to verify the carbon intensity of their EV charging sessions to:

- Report total carbon emissions and **meet carbon reduction goals**

- **Optimize charging** for lower emissions

- **Promote carbon emissions savings** to their local communities

- Strengthen applications to **secure EV funding** from government grants

- Compare your fleet against peers to support **improved charging decisions**

- **Protect sensitive fleet data**

- **Verify charging and discharging events** for Vehicle-to-Grid transactions

*For fleets that need to verify carbon emissions from electric vehicle charging, VIA's software technology will **accurately, quickly, and securely verify private data because it is tested by the U.S. Department of Energy.***
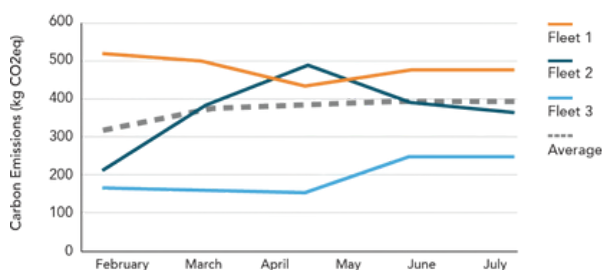
Verify the Carbon Intensity of Your EVs Today

Fleet owners can participate in a trial program in which VIA will analyze their charging data and provide analysis, visualizations, and insights about their EV charging patterns and upstream CO_2 emissions. This trial program is now available at no cost to fleet owners. Participation is simple and requires no obligation.

- Participating fleet owners will provide VIA access to **weekly EV charging session data**

- VIA will analyze that data, combined with fuel source data from the grid, and **calculate the resulting CO_2** emissions from each charging session

- VIA will **deliver data, charts, and insights** to the fleet owner on a weekly basis detailing the findings from the analysis

- Following the 30-day trial, participants will have the **option to continue** to provide data and receive monthly reports on an annual subscription basis

Comparing Carbon Emissions Across Fleets

CO_2Impact™ trial participants receive weekly analytics summarizing carbon emissions across fleets

Reach out to start verifying your EV charging CO_2 emissions

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Well Suited to Serve EV Fleets

Mission Aligned

VIA's mission is to empower organizations to reduce greenhouse gas emissions in order to create cleaner, safer, and more equitable communities

DOE Tested

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DoD Cybersecure

VIA's DoD cybersecurity accreditation speaks to its ability to shield threats for EV fleet operators

Data Expertise

VIA has a proven track record of solving complex challenges involving data verification, ingestion, and analysis while keeping underlying data private and secure

The VIA Platform

VIA's platform is the only U.S. Department of Defense (DoD) cybersecurity accredited blockchain and holds 13 issued patents related to data privacy and verification. VIA's customers include the DoD, utilities, state & local governments, insurance companies, logistics companies, technology companies, and automotive OEMs.

VIA's comprehensive platform includes rigorously tested components for blockchain, smart contracts, smart wallets, zero-knowledge proofs, and fingerprinting to solve data access, analysis, and verification challenges.