

TRANSPORTATION ELECTRIFICATION

Understanding greenhouse gas emissions from transportation.

Join the effort toward cleaner air.

California's goals to reduce greenhouse gas (GHG) emissions are some of the most ambitious in the world. Southern California Edison (SCE) and other utilities operating in the state are playing a proactive part in this significant reduction effort by supporting cleaner generation of electricity through increased use of renewable energy and encouraging greater adoption of Transportation Electrification (TE).

This fact sheet provides key considerations about the steps you can take to measure and reduce your organization's carbon footprint from transportation.



Does your site generate GHG emissions from transportation?

The answer is most likely yes. If you operate a parking site for your employees, customers, visitors or residents, manage a fleet, or are a supply chain participant (supplier, manufacturer, distributor, or retailer), the vehicles at your site come and go, or stay idled (possibly for long periods of time) and will emit GHG and criteria air pollutants.

Federal and state policies focus on clean air and GHG emission reduction.

Several key acts provide the foundation for “decarbonizing” transportation in California:

- **Federal Clean Air Act (1955-1990):** Regulates air emissions from stationary and mobile sources, including ground-level ozone reduction requirements.
- **Clean Energy & Pollution Reduction Act (SB 350, 2015):** Increases generation of renewables; leverages electric transportation to reduce GHGs.
- **California Global Warming Solutions Act (SB 32, 2016):** Sets the goal to reduce California's GHG emissions to 40% below 1990 levels by 2030.
- **California AB 398 and AB 617 of 2017:** Extends Cap-and-Trade program to reduce GHG emissions effectively; increases air quality monitoring and imposes stricter penalties for violation of air pollution laws.
- **Governor's Zero-Emission Vehicle Action Plan (2012-2016):** Roadmap toward 1.5 million zero-emission vehicles by 2025.

For More Information
sce.com/TE

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Government agencies proactively drive these efforts.

Federal, state, and local agencies are involved in improving air quality and reducing GHG emissions. These agencies may enforce current rules or develop future regulation applicable to your transportation activities; they may also provide grants or rebates for clean transportation technology:

- **US Environmental Protection Agency (EPA):** Establishes and monitors National Ambient Air Quality Standards (NAAQS) to regulate emissions of air pollutants.
- **California Air Resources Board (CARB):** Sets and enforces emission standards for vehicles and fuels.
- **California Public Utilities Commission (CPUC):** Regulates privately owned utilities (SCE's main regulator), including TE programs.
- Air Districts, including **South Coast Air Quality Management District (SCAQMD)** and **San Joaquin Valley Air Pollution Control District (SJVAPCD):** Ensure compliance with air quality standards in their respective region. You can find your local air district [here](#).



You have an effective weapon in your corporate sustainability efforts.

Many organizations are aggressively pursuing GHG emission reduction goals as part of their sustainability programs, tracking their carbon footprint and implementing reduction strategies. Consider that the transportation sector, including refineries, is responsible for 50% of GHG emissions in California according to the Air Resources Board. On average, TE reduces GHG emissions by about 70% over the life span of a vehicle. In addition, combining renewable generation, such as photovoltaic panels, with TE can create an even more substantial reduction in GHGs.

We can help you estimate your site's current transportation-related carbon footprint and the GHG savings you may realize with TE.

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Next steps:

- **Identify compliance requirements:** Many organizations may face current or future regulation that will impact their transportation operations.
- **Review or develop sustainability objectives:** If your organization is interested in sustainability or considering new sustainability programs, electrifying your fleet and deploying charging equipment may provide significant results. For information about fleet conversion and available incentives and grants click [here](#).
- **Contact us about your TE plans:** We encourage and support our customers in adopting TE. If your organization decides to proceed with TE deployment, please contact us early on to assist in planning your initiative.



Have questions or want to discuss your TE plans?
Please call your **SCE Account Manager** or **1-800-990-7788**.
Or for more information, visit [sce.com/TE](https://www.sce.com/TE).

Please note that your actual energy costs may vary depending on your electric rate schedule, your energy usage pattern, operating hours, and service voltage. Businesses interested in setting up EV-charging services should understand the legal, regulatory, and other requirements that may be involved. We cannot advise customers on pricing or other aspects of a business establishing EV-charging services.