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**Santa Clara Driving to Net Zero**  
GHG Reduction Estimation Tool for Electric Vehicle Charging Stations  
Developed by ICF  
Version 2  
March 2018



**Purpose:**

This tool provides a mechanism for jurisdictions in Santa Clara County to estimate greenhouse gas (GHG) reductions associated with Electrical Vehicle Charging Stations (EVCS) and to conduct a cost-effectiveness analysis. This tool was developed by ICF as part of the Driving to Net Zero Santa Clara project. The tool is designed for use by Santa Clara jurisdictions, although the methodology is universal.

**Instructions:**

The tool includes 8 pages, which are briefly described below.

Set up pages	{	<a href="#">TOC</a> - Use this page to navigate to other pages within the tool.
		<a href="#">Methodology</a> - This describes the methodology used in this tool
		<a href="#">Set Up</a> - Use this page to insert the data inputs and assumptions and/or use defaults
Results page	{	<a href="#">Results</a> - No modification required for this page. The page summarizes GHG emissions reduction average over lifetime of EVCS and total GHG emissions reduction. This page also summarizes overall cost effectiveness for a financial analysis and financial + social cost of carbon analysis. There is one option to input other costs.
Technical Analysis Pages	{	<a href="#">Residential</a> - No inputs needed. This is the technical analysis of residential EVCS.
		<a href="#">Non-Residential</a> - No inputs needed. This is the technical analysis of non-residential EVCS.
		<a href="#">Cost-Effectiveness</a> - No inputs needed. This is the cost-effectiveness analysis of EVCS.
		<a href="#">EMFAC2014data</a> - This is data used for analysis of fleet fossil fuel vehicle emissions.

Using the data you enter on the Setup page, the tool will estimate the net GHG emissions reductions and the cost effectiveness of the EVCS installation and show them on the Results page.

User entry - required input
User entry - optional input
Default values
Hard-coded factor
Calculated value as part of the tool



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