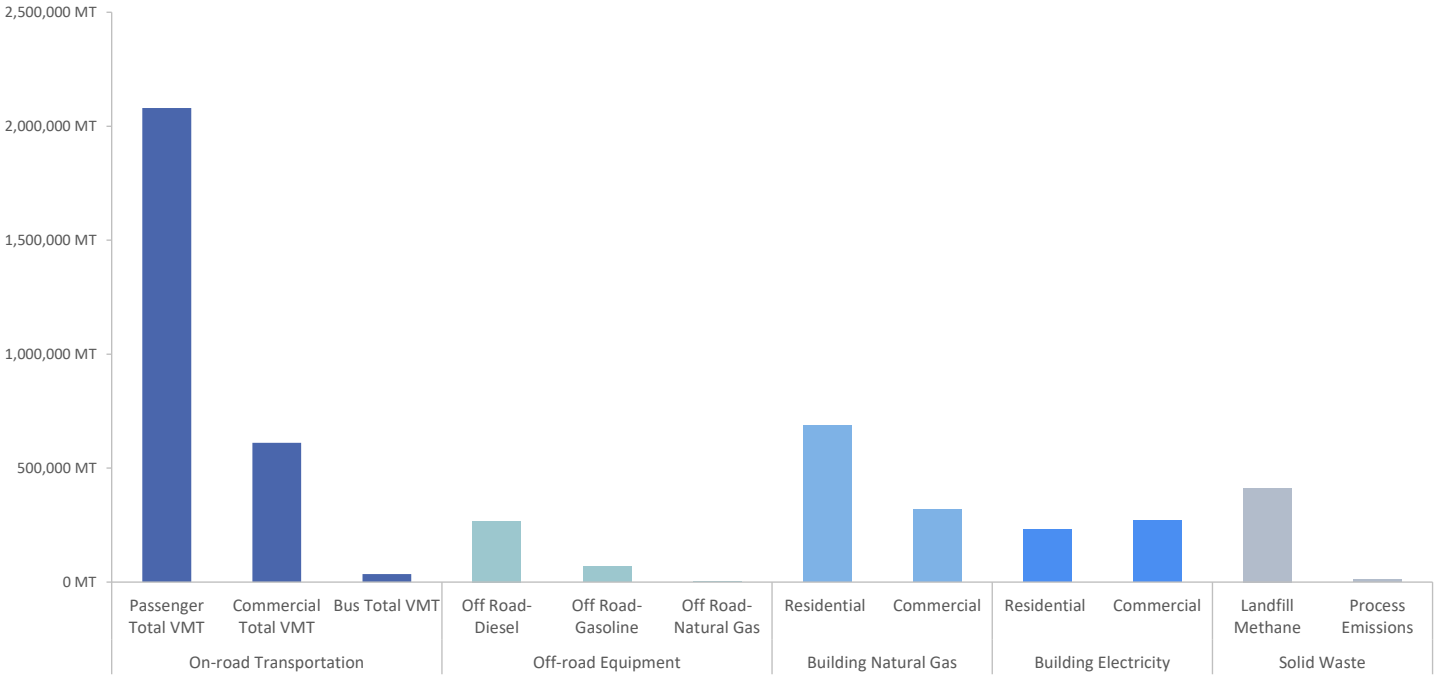
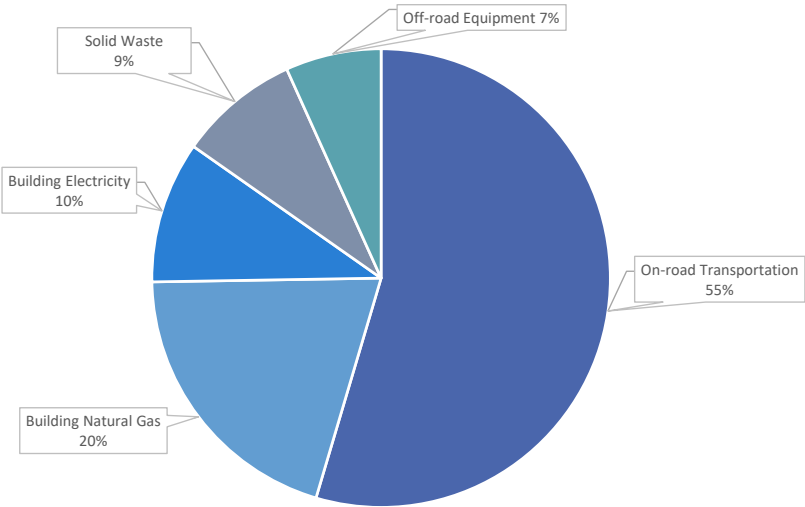


Greenhouse Gas Emissions Inventory

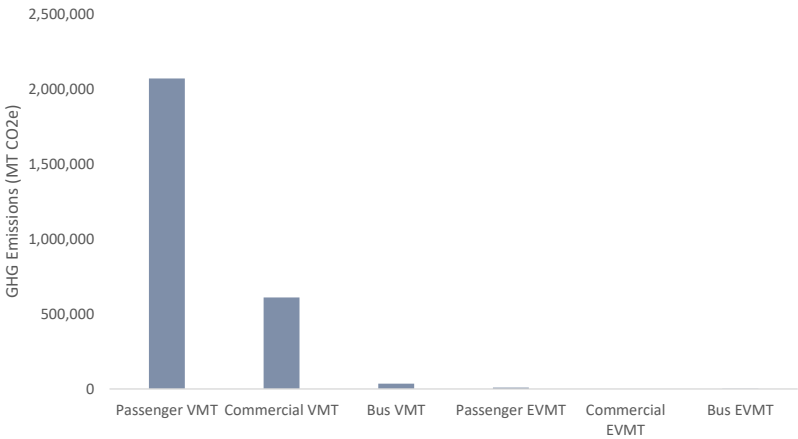
2022 Inventory Year

Community GHG Emissions

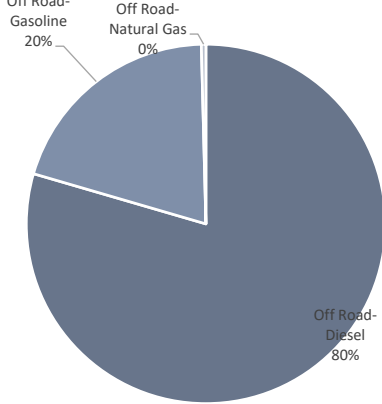
| Sector | MT CO2e |
|------------------------|------------------|
| On-road Transportation | 2,725,587 |
| Building Natural Gas | 1,006,249 |
| Building Electricity | 499,266 |
| Solid Waste | 424,992 |
| Off-road Equipment | 337,171 |
| Total | 4,993,265 |



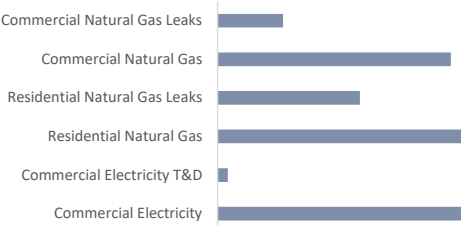
Community Transportation

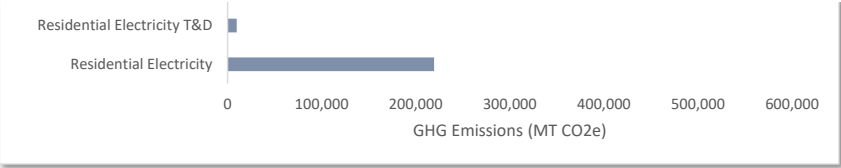


Community Offroad



Community Energy





GHG Emissions Inventory Data Processing and Analysis

GHG Emissions Summary

| Sector | Subsector | Activity Data | Unit | EF | Unit2 | MT CO2e |
|------------------------|-------------------------------|---------------|---------|----------|----------------|-----------|
| Building Electricity | Residential Electricity | 1,679,368,208 | kWh | 0.000131 | MT CO2e/kWh | 219,554 |
| | Residential Electricity T&D | 73,853,919 | kWh | 0.000131 | MT CO2e/kWh | 9,655 |
| | Commercial Electricity | 1,680,872,327 | kWh | 0.000154 | MT CO2e/kWh | 259,097 |
| Building Natural Gas | Commercial Electricity T&D | 71,101,428 | kWh | 0.000154 | MT CO2e/kWh | 10,960 |
| | Residential Natural Gas | 101,221,916 | therms | 0.005311 | MT CO2e/therm | 537,635 |
| | Residential Natural Gas Leaks | 2,848,456 | therms | 0.053067 | MT CO2e/therm | 151,159 |
| | Commercial Natural Gas | 46,651,613 | therms | 0.005311 | MT CO2e/therm | 247,788 |
| On-road Transportation | Commercial Natural Gas Leaks | 1,312,809 | therms | 0.053067 | MT CO2e/therm | 69,667 |
| | Passenger VMT | 6,103,105,747 | VMT | 0.000339 | MT CO2e/mile | 2,070,808 |
| | Commercial VMT | 611,654,126 | VMT | 0.000999 | MT CO2e/mile | 610,801 |
| | Bus VMT | 22,232,982 | VMT | 0.001586 | MT CO2e/mile | 35,270 |
| | Passenger EVMT | 66,587,335 | kWh | 0.000131 | MT CO2e/kWh | 8,705 |
| | Commercial EVMT | 0 | kWh | 0.000154 | MT CO2e/kWh | 0 |
| | Bus EVMT | 12,489 | kWh | 0.000154 | MT CO2e/kWh | 2 |
| Off-road Equipment | Off Road-Diesel | 26,570,480 | Gallons | 0.010089 | MT CO2e/Gallon | 268,079 |
| | Off Road-Gasoline | 7,429,022 | Gallons | 0.009115 | MT CO2e/Gallon | 67,718 |
| | Off Road-Natural Gas | 234,436 | Gallons | 0.005862 | MT CO2e/Gallon | 1,374 |
| | Landfill Methane | 1,092,525 | tons | 0.378000 | MT CO2e/ton | 412,974 |
| Solid Waste | Process Emissions | 1,092,525 | tons | 0.011000 | MT CO2e/ton | 12,018 |
| Total | | | | | | 4,993,265 |

[Add Notes or Sources]

Building Energy - Electricity

| Summary Tables | | | | | | | | | | |
|-----------------------------------|--------------------|------------------|-----------------------|--------------------------------|---------------------|---------------------|-------------|------------------|-------------------------|---|
| Annual Building Electricity Usage | | | | | | | | | | |
| Utility Provider | Emissions Category | Emissions Source | Include in Inventory? | Total Energy Consumption [kWh] | EV Energy Use [kWh] | Activity Data [kWh] | EF Source | EF [MT CO2e/kWh] | GHG Emissions [MT CO2e] | |
| CPA Lean Power | Residential | Residential | Yes | 445,150,729 | 16,977,180 | 428,173,549 | Provider EF | 0.000257 | 109,927 | |
| CPA Clean Power | Residential | Residential | Yes | 78,097,955 | 2,976,504 | 75,119,451 | Provider EF | 0.000222 | 16,696 | |
| CPA 100% Green Power | Residential | Residential | Yes | 829,277,235 | 31,627,014 | 797,650,220 | Provider EF | 0.000000 | 0 | |
| CPA Lean Power | Nonresidential | Commercial | Yes | 333,865,805 | 2,481 | 333,863,325 | Provider EF | 0.000257 | 85,714 | |
| CPA Clean Power | Nonresidential | Commercial | Yes | 48,738,708 | 362 | 48,738,346 | Provider EF | 0.000222 | 10,833 | |
| CPA 100% Green Power | Nonresidential | Commercial | Yes | 614,254,073 | 4,564 | 614,249,508 | Provider EF | 0.000000 | 0 | |
| SCE Power Mix | Residential | Residential | Yes | 314,271,998 | 11,985,720 | 302,286,277 | Provider EF | 0.000250 | 75,687 | |
| SCE Power Mix | Nonresidential | Commercial | Yes | 319,368,115 | 2,373 | 319,365,742 | Provider EF | 0.000250 | 79,964 | |
| Direct Access | Residential | Residential | Yes | 79,157,627 | 3,018,917 | 76,138,710 | Provider EF | 0.000226 | 17,244 | |
| Direct Access | Nonresidential | Commercial | Yes | 364,658,115 | 2,710 | 364,655,405 | Provider EF | 0.000226 | 82,587 | |
| | | | | | - | - | - | - | - | - |
| | | | | | - | - | - | - | - | - |
| | | | | | - | - | - | - | - | - |
| | | | | | - | - | - | - | - | - |

Annual Building Electricity T&D Losses

| Provider | Emissions Source | Include in Inventory? | Total Energy Consumption [kWh] | Grid T&D Loss | T&D [kWh] | EF [MT CO2e/kWh] | GHG Emissions [MT CO2e] |
|----------------------|------------------|-----------------------|--------------------------------|---------------|------------|------------------|-------------------------|
| CPA Lean Power | Residential | Yes | 445,150,729 | 4.23% | 18,829,876 | 0.000257 | 4,834 |
| CPA Clean Power | Residential | Yes | 78,097,955 | 4.23% | 3,303,543 | 0.000222 | 734 |
| CPA 100% Green Power | Residential | Yes | 829,277,235 | 4.23% | 35,078,427 | 0.000000 | 0 |
| CPA Lean Power | Commercial | Yes | 333,865,805 | 4.23% | 14,122,524 | 0.000257 | 3,626 |
| CPA Clean Power | Commercial | Yes | 48,738,708 | 4.23% | 2,061,647 | 0.000222 | 458 |
| CPA 100% Green Power | Commercial | Yes | 614,254,073 | 4.23% | 25,982,947 | 0.000000 | 0 |
| SCE Power Mix | Residential | Yes | 314,271,998 | 4.23% | 13,293,706 | 0.000250 | 3,329 |
| SCE Power Mix | Commercial | Yes | 319,368,115 | 4.23% | 13,509,271 | 0.000250 | 3,382 |
| Direct Access | Residential | Yes | 79,157,627 | 4.23% | 3,348,368 | 0.000226 | 758 |
| Direct Access | Commercial | Yes | 364,658,115 | 4.23% | 15,425,038 | 0.000226 | 3,493 |
| 0 | 0 | 0 | 0 | 4.23% | 0 | - | - |
| 0 | 0 | 0 | 0 | 4.23% | 0 | - | - |
| 0 | 0 | 0 | 0 | 4.23% | 0 | - | - |
| 0 | 0 | 0 | 0 | 4.23% | 0 | - | - |

Note - T&D losses are calculated based on total electricity consumption without removal of EV charging kWh as EV charging T&D losses are minor by comparison

Data Processing

| | Residential (kWh) | Commercial (kWh) | % of residential | % of commercial | % of total |
|----------------------------|---|------------------|------------------|-----------------|------------|
| SCE Power Mix | SCE not able to provide breakdown; data unavailable | | | | |
| SCE Green Rate 50% Option | | | | | |
| SCE Green Rate 100% Option | | | | | |
| SCE Total | 314,271,998 | 319,368,115 | 18% | 19% | 18% |
| CPA Lean Power | 445,150,729 | 333,865,805 | 25% | 20% | 23% |
| CPA Clean Power | 78,097,955 | 48,738,708 | 4% | 3% | 4% |
| CPA 100% Green Power | 829,277,235 | 614,254,073 | 47% | 37% | 42% |
| Direct Access | 79,157,627 | 364,658,115 | 5% | 21% | 13% |

Building Energy - Natural Gas

| Summary Tables | | | | | | | | | |
|-----------------------------------|------------------|-----------------------|---------------------------------------|---------------------------|-----------------------------|----------------------------|--------------------|----------------------------|--|
| Annual Building Natural Gas Usage | | | | | | | | | |
| Provider | Emissions Source | Include in Inventory? | Total Nat Gas Consumption [therms] | End-use Leakage [percent] | End-use Leakage [therms] | Nat Gas Combusted [therms] | EF [MT CO2e/therm] | GHG Emissions [MT CO2e] | |
| SoCal Gas | Residential | Yes | 101,730,569 | 0.50% | 508,653 | 101,221,916 | 0.005311 | 537,635 | |
| SoCal Gas | Commercial | Yes | 46,886,043 | 0.50% | 234,430 | 46,651,613 | 0.005311 | 247,788 | |
| | | | | 0.50% | 0 | 0 | 0.005311 | 0 | |
| | | | | 0.50% | 0 | 0 | 0.005311 | 0 | |
| | | | | 0.50% | 0 | 0 | 0.005311 | 0 | |
| | | | | 0.50% | 0 | 0 | 0.005311 | 0 | |

Annual Natural Gas Pipeline Leakage

| Provider | Emissions Source | Include in Inventory? | Total Nat Gas Consumption [therms] | Percent Leakage (pipeline) | Nat Gas Leakage [therms] | EF [MT CO2e/therms] | GHG Emissions [MT CO2e] |
|-----------|------------------|-----------------------|------------------------------------|----------------------------|--------------------------|---------------------|-------------------------|
| SoCal Gas | Residential | Yes | 101,730,569 | 2.30% | 2,339,803 | 0.053067 | 124,166 |
| SoCal Gas | Commercial | Yes | 46,886,043 | 2.30% | 1,076,379 | 0.053067 | 57,226 |
| 0 | 0 | 0 | 0 | 2.30% | 0 | 0.053067 | 0 |
| 0 | 0 | 0 | 0 | 2.30% | 0 | 0.053067 | 0 |
| 0 | 0 | 0 | 0 | 2.30% | 0 | 0.053067 | 0 |
| 0 | 0 | 0 | 0 | 2.30% | 0 | 0.053067 | 0 |

Annual Natural Gas End Use Leakage

| Provider | Emissions Source | Include in Inventory? | Total Nat Gas Consumption [therms] | Percent Leakage (end-use) | Nat Gas Leakage [therms] | EF [MT CO2e/therms] | GHG Emissions [MT CO2e] |
|-----------|------------------|-----------------------|------------------------------------|---------------------------|--------------------------|---------------------|-------------------------|
| SoCal Gas | Residential | Yes | 101,730,569 | 0.50% | 508,653 | 0.053067 | 26,993 |
| SoCal Gas | Commercial | Yes | 46,886,043 | 0.50% | 234,430 | 0.053067 | 12,441 |
| 0 | 0 | 0 | 0 | 0.50% | 0 | 0.053067 | 0 |
| 0 | 0 | 0 | 0 | 0.50% | 0 | 0.053067 | 0 |
| 0 | 0 | 0 | 0 | 0.50% | 0 | 0.053067 | 0 |
| 0 | 0 | 0 | 0 | 0.50% | 0 | 0.053067 | 0 |

Data Processing

From: Dawodu, Abiola <Dawodu@socaleas.com>
Sent: Wednesday, January 31, 2024 12:03 PM
To: Briones, Victor <Victor.Briones@ventura.org>
Subject: RE: Ventura County Data (unincorporated & countywide) Question

WARNING: If you believe this message may be malicious use the Phish Alert Button to report it or forward the message to Email_Security@ventura.org.

Hi Victor,

Based on our Data Engineer his quick summary analysis, the agriculture is 4.7% of the total for the county. Keep in mind that our systems do not keep track of "agriculture" customers, we use NACs codes to try to determine, but it is the best available data. Does the county only need a percentage?

Thank you,

| | Commercial therms | Est % agriculture | Agriculture therms |
|------|-------------------|-------------------|--------------------|
| 2022 | 49,198,366 | 4.70% | 2,312,323 |

Transportation - Onroad

| Summary Tables | | | | | | |
|-------------------------|-----------------|---------|---------|---------|---------|---------|
| Annual Onroad VMT [VMT] | | | | | | |
| Vehicle Category | Inventory Years | | | | | |
| | 2022 | Column2 | Column1 | Column4 | Column5 | Column6 |
| Passenger | 6,103,105,747 | | | | | |
| Commercial | 611,654,126 | | | | | |
| Buses | 22,232,982 | | | | | |

| Annual Onroad VMT GHG Emissions [MT CO2e] | | | | | | |
|---|-----------------|---------|---------|---------|---------|---------|
| Vehicle Category | Inventory Years | | | | | |
| | 2022 | Column2 | Column1 | Column4 | Column5 | Column6 |
| Passenger | 2,070,808 | | | | | |
| Commercial | 610,801 | | | | | |

| | |
|--|--------|
| Buses | 35,270 |
| Note - Emissions are calculated based on Total Onroad VMT (without removing EV shares) and a weighted emissions factor calculated from EMFAC2021 data which includes both electric and combustion fuel emissions | |

Annual Onroad EVMT [EVMT]

| Vehicle Category | Inventory Years | | | | |
|------------------|-----------------|---------|---------|---------|---------|
| | 2022 | Column2 | Column3 | Column4 | Column5 |
| Passenger | 182,525,854 | | | | |
| Commercial | 0 | | | | |
| Buses | 6,187 | | | | |

2022 Onroad EVMT GHG Emissions [MT CO2e]

| Vehicle Category | EV Miles [EVMT] | EPM [kWh/EVMT] | EVMT [kWh] | Weighted Avg EF [MT CO2e/kWh] | GHG Emissions [MT CO2e] |
|------------------|-----------------|----------------|------------|-------------------------------|-------------------------|
| Passenger | 182,525,854 | 0.3648 | 66,587,335 | 0.000131 | 8,705 |
| Commercial | 0 | 0.0000 | 0 | 0.000154 | 0 |
| Buses | 6,187 | 2.0188 | 12,489 | 0.000154 | 2 |

Pivot & Query Tables (streamlined)

Pivot EMFAC2021 Model - EV Share

| EV.Share | Calendar.Year |
|---------------------|---------------|
| Vehicle.Designation | 2022 |
| Passenger | 2.99% |
| Commercial | 0.00% |
| Buses | 0.03% |

Pivot EMFAC2021 Model - Emission Factors [MT CO2e/VMT]

| EF | Calendar.Year |
|---------------------|---------------|
| Vehicle.Designation | 2022 |
| Passenger | 0.000339 |
| Commercial | 0.000999 |
| Buses | 0.001586 |

Pivot EMFAC2021 Model - EV Energy per Mile Travelled [EPM] [kWh/EVMT]

| EPM | Calendar.Year |
|---------------------|---------------|
| Vehicle.Designation | 2022 |
| Passenger | 0.3648 |
| Commercial | 0.0000 |
| Buses | 2.0188 |

Total Onroad VMT [VMT]

| Vehicle Category | Inventory Years | | | | |
|------------------|-----------------|---------|---------|---------|---------|
| | 2022 | Column1 | Column2 | Column4 | Column5 |
| Passenger | 6,103,105,747 | | | | |
| Commercial | 611,654,126 | | | | |
| Buses | 22,232,982 | | | | |

Source: Ventura County Transportation Model (VCTM) supplemented by Santa Barbara County Association of Government's (SBCAG) External VMT data. Follows the Regional Targets Advisory Committee's (RTAC) methodology established under SB 375: 100% of internal-internal (I-I) trips; 50% of external-internal (E-I) and internal-external (I-E) trips; excludes external-external (E-E) trips

Data Processing

| | VCTM Total Daily VMT | Annualization Factor | VCTM Total Annual VMT |
|-------|----------------------|----------------------|-----------------------|
| Auto | 17,588,201 | 347 | 6,103,105,747 |
| Truck | 1,826,764 | | 633,887,108 |

| | EMFAC2021 'Trucks' VMT Breakdown for Ventura County |
|------------|---|
| Commercial | 96% |
| Bus | 4% |

Transportation - Offroad

Summary Tables

Annual Offroad Fuel Consumption per Fuel Type

| Attributed Fuel Consumption | Calendar Year |
|-----------------------------|---------------|
| Fuel | 2022 |
| Diesel | 26,570,480 |
| Gasoline | 7,429,022 |
| Nat Gas | 234,436 |

*Note - all units are in gallons per year

Source: California Air Resource Board (CARB), Mobile Source Emissions Inventory Off-road (OFFROAD2021). Accessed at: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/msei-road-documentation-0>

[Add Notes or Sources]

Annual Offroad GHG Emissions per Fuel Type

| Fuel Type | Sum of GHG Emissions [MT CO2e] |
|-------------|--------------------------------|
| Diesel | 268,079 |
| Gasoline | 67,718 |
| Nat Gas | 1,374 |
| Grand Total | 337,171 |

Source: California Air Resource Board (CARB), Mobile Source Emissions Inventory Off-road (OFFROAD2021). Accessed at: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/msei-road-documentation-0>

Pivot & Query Tables (streamlined)

Attribution Selection Table

| Identifiers | Attribution Metric | Attribution Value |
|--------------|---|-------------------|
| Agricultural | Excluded - Not Under Jurisdictional Control | 0.0000 |
| Airport | Excluded - Other | 0.0000 |
| Cargo | Excluded - Not Under Jurisdictional Control | 0.0000 |
| Commercial | Excluded - Not Under Jurisdictional Control | 0.0000 |
| Construction | Complete Jurisdictional Control | 1.0000 |
| Industrial | Excluded - Not Under Jurisdictional Control | 0.0000 |
| Lawn | Complete Jurisdictional Control | 1.0000 |
| Light | Complete Jurisdictional Control | 1.0000 |
| Locomotive | Excluded - Not Under Jurisdictional Control | 0.0000 |
| Ocean | Complete Jurisdictional Control | 1.0000 |
| Oil | Complete Jurisdictional Control | 1.0000 |
| Outboard | Complete Jurisdictional Control | 1.0000 |
| Pleasure | Complete Jurisdictional Control | 1.0000 |
| Portable | Complete Jurisdictional Control | 1.0000 |
| Transport | Complete Jurisdictional Control | 1.0000 |
| Recreational | Complete Jurisdictional Control | 1.0000 |
| Military | Excluded - Not Under Jurisdictional Control | 0.0000 |
| Forestry | Complete Jurisdictional Control | 1.0000 |

* Population serviced (or service population) is the sum of population and employment

Fuel Consumption by Subsector

| Attributed Fuel Consumption | Identifier | Attribution Metric | Attribution Value | Calendar Year |
|-----------------------------|--------------|---|-------------------|---------------|
| Fuel | | | | 2022 |
| Diesel | Agricultural | Excluded - Not Under Jurisdictional Control | 0 | 0 |
| Diesel | Airport | Excluded - Other | 0 | 0 |
| Diesel | Commercial | Excluded - Not Under Jurisdictional Control | 0 | 0 |
| Diesel | Construction | Complete Jurisdictional Control | 1 | 4,671,468 |
| Diesel | Forestry | Complete Jurisdictional Control | 1 | 0 |
| Diesel | Industrial | Excluded - Not Under Jurisdictional Control | 0 | 0 |
| Diesel | Lawn | Complete Jurisdictional Control | 1 | 40,935 |
| Diesel | Light | Complete Jurisdictional Control | 1 | 252,185 |
| Diesel | Locomotive | Excluded - Not Under Jurisdictional Control | 0 | 0 |
| Diesel | Oil | Complete Jurisdictional Control | 1 | 714,182 |
| Diesel | Pleasure | Complete Jurisdictional Control | 1 | 0 |
| Diesel | Portable | Complete Jurisdictional Control | 1 | 1,259,403 |
| Diesel | Ocean | Complete Jurisdictional Control | 1 | 18,728,127 |
| Gasoline | Agricultural | Excluded - Not Under Jurisdictional Control | 0 | 0 |
| Gasoline | Airport | Excluded - Other | 0 | 0 |
| Gasoline | Construction | Complete Jurisdictional Control | 1 | 194,957 |
| Gasoline | Industrial | Excluded - Not Under Jurisdictional Control | 0 | 0 |
| Gasoline | Lawn | Complete Jurisdictional Control | 1 | 2,196,102 |
| Gasoline | Light | Complete Jurisdictional Control | 1 | 2,632,439 |
| Gasoline | Pleasure | Complete Jurisdictional Control | 1 | 2,182,215 |
| Gasoline | Recreational | Complete Jurisdictional Control | 1 | 223,309 |
| Nat Gas | Airport | Excluded - Other | 0 | 0 |
| Nat Gas | Industrial | Excluded - Not Under Jurisdictional Control | 0 | 0 |
| Nat Gas | Light | Complete Jurisdictional Control | 1 | 234,436 |

GHG Emissions by Subsector and Fuel Type

| Identifiers | Fuel Type | Fuel EF [MT CO2e/gal] | Attributed Fuel Consumption [gal] | GHG Emissions [MT CO2e] |
|--------------|-----------|-----------------------|-----------------------------------|-------------------------|
| Agricultural | Diesel | 0.0105 | 0 | 0 |
| Airport | Diesel | 0.0105 | 0 | 0 |
| Cargo | Diesel | 0.0104 | - | 0 |
| Commercial | Diesel | 0.0104 | 0 | 0 |
| Construction | Diesel | 0.0105 | 4,671,468 | 48,930 |
| Industrial | Diesel | 0.0105 | 0 | 0 |
| Lawn | Diesel | 0.0105 | 40,935 | 428 |
| Light | Diesel | 0.0105 | 252,185 | 2,640 |
| Locomotive | Diesel | 0.0104 | 0 | 0 |
| Ocean | Diesel | 0.0104 | 18,728,127 | 195,419 |
| Oil | Diesel | 0.0105 | 714,182 | 7,480 |
| Outboard | Diesel | 0.0104 | | 0 |
| Pleasure | Diesel | 0.0104 | 0 | 0 |

| | | | | |
|--------------|----------|--------|-----------|--------|
| Portable | Diesel | 0.0105 | 1,259,403 | 13,182 |
| Transport | Diesel | 0.0105 | - | 0 |
| Recreational | Diesel | 0.0104 | - | 0 |
| Military | Diesel | 0.0105 | - | 0 |
| Forestry | Diesel | 0.0105 | 0 | 0 |
| Agricultural | Gasoline | 0.0093 | 0 | 0 |
| Airport | Gasoline | 0.0095 | 0 | 0 |
| Cargo | Gasoline | 0.0093 | - | 0 |
| Commercial | Gasoline | 0.0089 | - | 0 |
| Construction | Gasoline | 0.0093 | 194,957 | 1,808 |
| Industrial | Gasoline | 0.0092 | 0 | 0 |
| Lawn | Gasoline | 0.0092 | 2,196,102 | 20,219 |
| Light | Gasoline | 0.0092 | 2,632,439 | 24,237 |
| Locomotive | Gasoline | 0.0093 | - | 0 |
| Ocean | Gasoline | 0.0089 | - | 0 |
| Oil | Gasoline | 0.0093 | - | 0 |
| Outboard | Gasoline | 0.0089 | - | 0 |
| Pleasure | Gasoline | 0.0089 | 2,182,215 | 19,394 |
| Portable | Gasoline | 0.0092 | - | 0 |
| Transport | Gasoline | 0.0092 | - | 0 |
| Recreational | Gasoline | 0.0092 | 223,309 | 2,059 |
| Military | Gasoline | 0.0092 | - | 0 |
| Forestry | Gasoline | 0.0092 | - | 0 |
| Agricultural | Nat Gas | 0.0059 | - | 0 |
| Airport | Nat Gas | 0.0059 | 0 | 0 |
| Cargo | Nat Gas | 0.0059 | - | 0 |
| Commercial | Nat Gas | - | - | 0 |
| Construction | Nat Gas | 0.0059 | - | 0 |
| Industrial | Nat Gas | 0.0059 | 0 | 0 |
| Lawn | Nat Gas | 0.0059 | - | 0 |
| Light | Nat Gas | 0.0059 | 234,436 | 1,374 |
| Locomotive | Nat Gas | 0.0059 | - | 0 |
| Ocean | Nat Gas | - | - | 0 |
| Oil | Nat Gas | 0.0059 | - | 0 |
| Outboard | Nat Gas | - | - | 0 |
| Pleasure | Nat Gas | - | - | 0 |
| Portable | Nat Gas | 0.0059 | - | 0 |
| Transport | Nat Gas | 0.0059 | - | 0 |
| Recreational | Nat Gas | 0.0058 | - | 0 |
| Military | Nat Gas | 0.0059 | - | 0 |
| Forestry | Nat Gas | - | - | 0 |

Data Processing

Solid Waste

Summary Tables

Process Fuel Selection

| | |
|------------------|-----|
| Select Fuel Type | CNG |
|------------------|-----|

Waste Generation Summary table

| Emissions Source | Include in Inventory? | Activity Data | Unit | Emissions Factor | Unit | LFG Collection Efficiency | Oxidation Rate | GHG Emissions [MT CO2e] |
|-------------------|-----------------------|---------------|------|------------------|-------------|---------------------------|----------------|-------------------------|
| Landfill Methane | Yes | 1,092,525 | tons | 1.68 | MT CO2e/ton | | | 412,974 |
| Process Emissions | Yes | 1,092,525 | tons | 0.0110 | MT CO2e/ton | 0.75 | 0.1 | 12,018 |

Source: CalRecycle; 2022 activity data derived from 2019 activity data as is most recent available. 2019 landfilled tons/capita used as proxy for 2022 landfilled tons.

Notes: KLEI US Community Protocol Equations SW-4.1 and SW-5 used for calculations

Data Processing

| 2019 Landfilled Tons | 2019 Population | Landfilled tons/capita | 2022 Population | 2022 Landfilled tons |
|----------------------|-----------------|------------------------|-----------------|----------------------|
| 1,109,245 | 844,259 | 1.31 | 831,533 | 1,092,525 |

Solid Waste

Organic Waste Diversion

Organic Waste Diversion Parameters and Data Sources

| Variable | Definition | Value | Unit | Data Source | Link |
|--|--|-----------------------|------------|------------------------------------|------|
| Organic Waste Diversion | | | | | |
| CO ₂ e Reduction _y | Landfilled organic waste GHG emission reductions | See calculation table | MT CO2e | Calculated | N/A |
| CO2e Emissions _y | Landfilled organic waste GHG emissions | See calculation table | MT CO2e | Calculated | N/A |
| Reduction Target _{LOW, y} | Landfilled organic waste reduction target | 75% | percentage | Assume SB 1383 Requirement | N/A |
| Implementation Year | Year in which program is implemented | 2025 | Year | Year in which EPA grant is awarded | |

Organic Waste Diversion Emission Reduction Calculations

| Variable | Definition | Units | Sector | 2030 | 2050 |
|------------------------------------|--|------------|-----------|-----------|-----------|
| Organic Waste Diversion | | | | | |
| CO2e Emissions _y | Landfilled organic waste GHG emissions | MT CO2e | Community | 424,992 | 424,992 |
| Reduction Target _{LOW, y} | Landfilled organic waste reduction target | percentage | Community | 75% | 75% |
| CO2e Reduction _y | Landfilled organic waste GHG emission reductions | MT CO2e | | 1,593,720 | 7,968,602 |

Note: Quantification assesses cumulative GHG emissions reductions based on annual diversion targets

Note: Quantification assumes all GHG emissions from landfilled waste are the result of organic waste which would be diverted by SB 1383

| Project Quantification | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| Cost and GHG Emission Reductions by Project | | | | | | | | | |

Expansion of 3C-REN Home Energy Savings Program

This project would serve an additional 6 multifamily properties (representing dozens to hundreds of families) and 110 single family homes in the first year. This would allow for an approximate 30% annual increase in impact for the Ventura County region.

- The homes served as part of this project will be electrified
- 90 units in the 6 multifamily properties for a total of 200 units
- 30% increase in homes electrified each year after the first year through 2030

The number of households are contributing to the total households calculated as part of The PCAP measure quantification (not above and beyond the measure quantification)

[illegible]

VCREA/County staff will work with regional partners including Ventura County departments, cities, non-profits, affordable housing providers, and VCTC to design and install 368 EV charging ports at locations throughout the Ventura County Region. This project also includes the purchase of new electric vehicles - 8 BEV sedans, 14 BEV SUVs, 1 EV Truck, and 5 DAR cutaway EVs which would be bought in 2027

- All chargers are public and chargers maintained through 2050
- The new EV's will not be charged on the new EV charging ports included in this project, but on other EV charging ports that will be installed using other funding (CFI and CARB grants)

| Inputs, Targets, and Assumptions | Value | Source |
|--|--------|-----------------------------------|
| % public charging | 15% | Ventura County EV Ready Blueprint |
| Total EV charging ports needed (2030) | 73,999 | PCAP measure quantification |
| Total public EV charging ports needed (2030) | 2,264 | PCAP measure quantification |
| Average VMT/vehicle | 9,871 | PCAP measure quantification |

To address the diverse charging needs of electric vehicle drivers, planners have introduced the concept of the "charging pyramid." As a rule of thumb, 85 percent or more of all light-duty vehicle charging is expected to occur at home, usually overnight when electricity rates are low. DC Fast Charging is expected to provide the least amount of charging proportionately, as the price per kWh delivered through a DC Fast Charging station is expected to be 20 percent or more than the price per kWh delivered through a Level 2 charging equipment and the potential for charging to occur closer to peak rate periods. The "convenience premium" for Fast Charging stations can bring the refueling costs for an EV at a Fast Charging station much closer to gasoline costs, with a \$20 charge at EVgo stations being a typical experience for many electric vehicles making inter-city trips in California.

Figure 1: Charging Pyramid



Source: New York State Energy Research and Development Authority
The charging pyramid illustrates that the great majority of all charging occurs in residential settings, while workplace, fleet, and public charging accounts for a small balance (15 percent) of electric vehicle charging needs.

| | | charging ports operating each year (if installed in 2025, operating in 2026) | | | | |
|---|--------------------------|--|------------|------------|------------|------------|
| Site Owner | Number of charging ports | 2026 | 2027 | 2028 | 2029 | 2030 |
| City of Fillmore | 4 | 0 | 4 | 4 | 4 | 4 |
| City of Moorpark | 11 | 0 | 11 | 11 | 11 | 11 |
| City of Oxnard | 14 | 0 | 0 | 14 | 14 | 14 |
| City of Port Hueneume | 18 | 0 | 6 | 12 | 12 | 18 |
| City of Santa Paula | 8 | 0 | 8 | 8 | 8 | 8 |
| City of Simi Valley | 37 | 11 | 37 | 37 | 37 | 37 |
| City of Ventura | 24 | 0 | 4 | 16 | 16 | 24 |
| County of Ventura | 63 | 17 | 61 | 63 | 63 | 63 |
| GCTD | 38 | 0 | 38 | 38 | 38 | 38 |
| Housing Authority of the City of San Buenaventura | 15 | 7 | 15 | 15 | 15 | 15 |
| Private Entity/Non-profit | 92 | 0 | 0 | 26 | 62 | 92 |
| Quail Springs | 4 | 4 | 4 | 4 | 4 | 4 |
| The Pacific Companies | 6 | 6 | 6 | 6 | 6 | 6 |
| Towbes Group | 18 | 0 | 18 | 18 | 18 | 18 |
| VCTC | 10 | 0 | 10 | 10 | 10 | 10 |
| Total | 362 | 51 | 214 | 282 | 318 | 362 |

| Parameter | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Total Reductions (MT CO2e) | 22,952 | 69,881 | 142,248 | 45,722 | 57,656 | 279,039 | 345,661 | 413,248 | 479,442 | 546,407 | 616,453 | 685,421 | 755,431 | 826,566 | 898,760 | 972,093 | 1,046,515 | 1,121,951 | 1,195,511 | 1,269,744 | 1,344,611 | 1,420,208 | 1,496,542 | | | |
| Total Reductions (MMT CO2e) | 6,674 | 14,316 | 20,391 | 28,491 | 26,650 | 27,032 | 37,612 | 46,843 | 54,919 | 62,180 | 68,676 | 75,396 | 83,005 | 91,825 | 100,861 | 110,464 | 120,657 | 131,425 | 142,961 | 155,079 | 167,951 | 181,192 | 195,153 | 209,754 | 225,106 | 241,137 |
| Passenger and Commercial Total Reductions (MT CO2e) | 29,626 | 96,531 | 185,299 | 260,101 | 333,958 | 407,841 | 481,924 | 554,838 | 629,412 | 708,278 | 786,282 | 865,895 | 947,223 | 1,030,185 | 1,115,054 | 1,201,594 | 1,289,901 | 1,376,703 | 1,464,897 | 1,554,365 | 1,645,314 | 1,737,679 | | | | |
| % of passenger vehicles that are EV | 6.56% | 7.75% | 8.93% | 10.12% | 11.31% | 12.50% | 16.88% | 21.25% | 25.63% | 30.00% | 34.38% | 38.75% | 43.13% | 47.50% | 51.88% | 56.25% | 60.63% | 65.00% | 69.38% | 73.75% | 78.13% | 82.50% | 86.88% | 91.25% | 95.63% | 100.00% |
| % of commercial vehicles that are EV | 2.08% | 4.17% | 6.25% | 8.33% | 10.42% | 12.50% | 16.88% | 21.25% | 25.63% | 30.00% | 34.38% | 38.75% | 43.13% | 47.50% | 51.88% | 56.25% | 60.63% | 65.00% | 69.38% | 73.75% | 78.13% | 82.50% | 86.88% | 91.25% | 95.63% | 100.00% |
| Passenger EVMT | 6,172,621,679 | 6,195,793,657 | 6,218,965,634 | 6,242,137,611 | 6,265,309,589 | 6,288,481,566 | 6,311,653,543 | 6,334,825,521 | 6,357,997,498 | 6,381,169,476 | 6,404,341,453 | 6,427,513,430 | 6,450,685,408 | 6,473,857,385 | 6,497,029,363 | 6,520,201,340 | 6,543,373,317 | 6,566,545,295 | 6,589,717,272 | 6,612,889,249 | 6,636,061,227 | 6,659,233,204 | 6,682,405,182 | 6,705,577,159 | 6,728,749,136 | 6,751,921,114 |
| Commercial VMT | 619,004,966 | 621,455,246 | 623,905,526 | 626,355,806 | 628,806,086 | 631,256,366 | 633,706,646 | 636,156,926 | 638,607,206 | 641,057,486 | 643,507,766 | 645,958,046 | 648,408,325 | 650,858,605 | 653,308,885 | 655,759,165 | 658,209,445 | 660,659,725 | 663,110,005 | 665,560,285 | 668,010,565 | 670,460,845 | 672,911,125 | 675,361,405 | 677,811,685 | 680,261,965 |
| Total EVMT | 417,615,622 | 774,190,862 | 594,597,366 | 1,481,333,770 | 1,172,029,532 | 864,967,241 | 1,172,029,532 | 1,481,333,770 | 1,792,879,958 | 2,106,668,088 | 2,422,698,619 | 2,740,970,197 | 3,061,984,172 | 3,384,240,096 | 3,703,297,966 | 4,036,477,784 | 4,365,995,550 | 4,697,683,263 | 5,031,648,924 | 5,367,856,532 | 5,703,306,588 | 6,046,997,591 | 6,389,931,042 | 6,735,106,440 | 7,082,523,786 | 7,432,183,965 |
| Total EVs | 42,306 | 51,238 | 60,235 | 69,299 | 78,429 | 87,625 | 118,731 | 150,065 | 181,626 | 213,414 | 245,429 | 277,671 | 310,140 | 342,837 | 375,760 | 408,911 | 442,289 | 475,894 | 509,726 | 543,785 | 578,071 | 612,585 | 647,325 | 682,293 | 717,488 | 752,910 |
| Total EV Charging Ports Needed | 37,538 | 45,458 | 50,876 | 58,537 | 66,242 | 73,999 | 96,662 | 122,168 | 144,914 | 170,270 | 195,821 | 221,542 | 242,978 | 268,593 | 294,379 | 320,344 | 346,487 | 372,934 | 399,849 | 427,760 | 455,671 | 483,582 | 511,493 | 539,404 | 567,315 | 595,226 |
| EVMT per Charging Port | 11,125 | 11,126 | 11,687 | 11,686 | 11,687 | 11,689 | 12,125 | 12,125 | 12,372 | 12,373 | 12,372 | 12,372 | 12,372 | 12,620 | 12,620 | 12,620 | 12,620 | 13,699 | 13,699 | 13,699 | 13,699 | 13,699 | 13,699 | 15,005 | 15,005 | 15,005 |
| New Charging Ports | - | 51 | 214 | 282 | 318 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 | 362 |
| EVMT covered with Chargers | - | 567,442 | 2,501,058 | 3,295,473 | 3,716,566 | 4,231,383 | 4,389,260 | 4,389,389 | 4,478,674 | 4,478,850 | 4,478,665 | 4,478,750 | 4,561,142 | 4,561,157 | 4,561,277 | 4,561,362 | 4,561,433 | 4,958,859 | 4,958,923 | 4,958,961 | 4,958,980 | 4,959,071 | 4,959,042 | 5,431,658 | 5,431,717 | 5,431,687 |
| MT CO2e reductions per EVMT (from PCAP Measure Quant) | 0.0003225 | 0.0003399 | 0.0003423 | 0.0003373 | 0.0003291 | 0.0003195 | 0.0003047 | 0.0002964 | 0.0002903 | 0.0002858 | 0.0002823 | 0.0002785 | 0.0002756 | 0.0002746 | 0.0002730 | 0.0002718 | 0.0002710 | 0.0002704 | 0.0002702 | 0.0002701 | 0.0002702 | 0.0002698 | 0.0002695 | 0.0002694 | 0.0002693 | 0.0002694 |
| Total passenger and commercial reductions per public charging port (MT CO2e) | 3.59 | 3.78 | 4.00 | 3.94 | 3.85 | 3.73 | 3.69 | 3.59 | 3.54 | 3.49 | 3.45 | 3.46 | 3.44 | 3.42 | 3.41 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.39 | 3.40 | 4.04 | 4.04 | 4.04 |
| Reductions by site owner | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City of Fillmore | - | - | 16.00 | 15.77 | 15.39 | 14.98 | 14.38 | 14.37 | 13.97 | 13.78 | 13.49 | 13.78 | 13.87 | 13.84 | 13.76 | 13.70 | 13.66 | 13.70 | 13.80 | 14.80 | 14.80 | 14.80 | 14.77 | 16.16 | 16.16 | 16.16 |
| City of Moorpark | - | - | 44.00 | 43.36 | 42.31 | 41.04 | 40.64 | 39.54 | 39.51 | 38.90 | 38.42 | 37.90 | 38.20 | 38.06 | 37.83 | 37.67 | 37.56 | 40.75 | 40.71 | 40.70 | 40.71 | 40.65 | 40.61 | 44.46 | 44.45 | 44.46 |
| City of Oxnard | - | - | 56.88 | 56.28 | 55.22 | 54.28 | 53.32 | 50.32 | 48.43 | 48.43 | 48.43 | 47.95 | 47.80 | 48.43 | 47.95 | 47.80 | 51.81 | 51.81 | 51.81 | 51.81 | 51.81 | 51.81 | 56.57 | 56.57 | 56.57 | 56.57 |
| City of Port Hueneme | - | - | 24.00 | 47.30 | 46.16 | 67.22 | 66.50 | 64.70 | 64.65 | 63.65 | 62.87 | 62.01 | 62.27 | 61.91 | 61.64 | 61.46 | 66.68 | 66.61 | 66.59 | 66.62 | 66.62 | 66.52 | 66.46 | 72.75 | 72.74 | 72.75 |
| City of Santa Paula | - | - | - | 31.54 | 30.77 | 29.56 | 28.76 | 28.73 | 27.56 | 27.04 | 26.78 | 27.68 | 27.27 | 27.68 | 27.40 | 27.31 | 29.64 | 29.61 | 29.60 | 29.61 | 29.57 | 29.54 | 32.33 | 32.33 | 32.33 | 32.33 |
| City of Simi Valley | - | 41.60 | 148.00 | 145.85 | 142.33 | 138.16 | 136.70 | 133.00 | 132.90 | 130.85 | 129.23 | 127.47 | 128.50 | 128.01 | 127.26 | 126.71 | 126.33 | 137.06 | 136.93 | 136.89 | 136.94 | 136.74 | 136.61 | 149.54 | 149.52 | 149.55 |
| City of Ventura | - | 61.55 | 16.00 | 63.07 | 61.55 | 89.62 | 88.67 | 86.27 | 86.20 | 84.87 | 83.82 | 82.68 | 83.35 | 83.03 | 82.55 | 82.19 | 81.94 | 88.91 | 88.82 | 88.79 | 88.82 | 88.70 | 88.61 | 97.00 | 96.98 | 97.00 |
| County of Authority | - | 64.30 | 244.01 | 226.34 | 242.34 | 235.25 | 232.76 | 226.78 | 226.28 | 222.79 | 220.04 | 217.04 | 218.79 | 217.96 | 216.69 | 215.75 | 215.11 | 233.38 | 233.15 | 233.08 | 233.17 | 232.83 | 232.60 | 254.62 | 254.68 | 254.63 |
| GCID | - | - | 152.00 | 149.79 | 146.17 | 141.90 | 140.39 | 136.59 | 136.49 | 134.38 | 132.72 | 130.91 | 131.97 | 131.47 | 130.70 | 130.14 | 129.75 | 140.77 | 140.63 | 140.59 | 140.63 | 140.43 | 140.30 | 153.58 | 153.56 | 153.59 |
| Jointing Authority of the City of San Buenaventura | - | 26.47 | 60.00 | 57.70 | 57.70 | 58.42 | 58.42 | 51.89 | 51.89 | 51.89 | 51.89 | 51.37 | 51.37 | 51.37 | 51.37 | 51.37 | 51.37 | 55.52 | 55.52 | 55.52 | 55.52 | 60.61 | 60.61 | 60.61 | 60.61 | 60.61 |
| Private Entity/Non-profit | - | - | - | 102.49 | 238.49 | 343.54 | 339.90 | 330.70 | 330.44 | 325.35 | 321.33 | 316.95 | 319.51 | 318.28 | 316.43 | 315.07 | 314.12 | 340.80 | 340.47 | 340.37 | 340.50 | 340.00 | 339.67 | 371.72 | 371.77 | 371.84 |
| Quail Springs | - | 15.13 | 16.00 | 15.77 | 15.39 | 14.94 | 14.78 | 14.38 | 14.37 | 14.15 | 13.97 | 13.78 | 13.84 | 13.76 | 13.70 | 13.66 | 14.82 | 14.80 | 14.80 | 14.80 | 14.80 | 14.77 | 16.16 | 16.16 | 16.16 | 16.16 |
| The Pacific Companies | - | 22.69 | 23.65 | 22.41 | 23.08 | 22.41 | 22.17 | 21.57 | 21.55 | 21.22 | 20.86 | 20.67 | 20.84 | 20.76 | 20.64 | 20.55 | 20.49 | 22.23 | 22.20 | 22.20 | 22.21 | 22.17 | 22.15 | 24.25 | 24.25 | 24.25 |
| Towbes Group | - | 22.69 | 72.00 | 72.00 | 69.24 | 67.22 | 66.50 | 64.70 | 64.65 | 62.62 | 62.87 | 62.01 | 62.51 | 62.27 | 61.91 | 61.64 | 61.46 | 66.68 | 66.61 | 66.59 | 66.62 | 66.52 | 66.46 | 72.75 | 72.74 | 72.75 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|---|--------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| VCTC | | | - | 40.00 | 39.42 | 38.47 | 37.34 | 36.95 | 35.95 | 35.92 | 35.36 | 34.93 | 34.45 | 34.73 | 34.60 | 34.39 | 34.25 | 34.14 | 37.04 | 37.01 | 37.00 | 37.01 | 36.96 | 36.92 | 40.42 | 40.41 | 40.42 |
| Total | | 0 | 192.89 | 856.02 | 1,111.62 | 1,223.24 | 1,351.77 | 1,337.43 | 1,301.22 | 1,300.23 | 1,280.17 | 1,264.34 | 1,247.11 | 1,257.20 | 1,252.38 | 1,245.10 | 1,239.73 | 1,236.00 | 1,340.99 | 1,339.67 | 1,339.29 | 1,339.78 | 1,337.82 | 1,336.52 | 1,463.04 | 1,462.83 | 1,463.12 |

| ALL EV PROJECT REDUCTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------------|--|---|--|------------|--|---|--|------------|--|---|--|--------------|--|---|--|------------|--|---|--|------------|--|---|--|------------|--|
| Cumulative project reductions by 2030 (MT CO2e) | | 5,081 | | Cumulative project reductions by 2030 (MT CO2e) | | 161 | | Cumulative project reductions by 2030 (MT CO2e) | | 92 | | Cumulative project reductions by 2030 (MT CO2e) | | 1,034 | | Cumulative project reductions by 2030 (MT CO2e) | | 259 | | Cumulative project reductions by 2030 (MT CO2e) | | 77 | | Cumulative project reductions by 2030 (MT CO2e) | | 302 | |
| Cumulative project reductions by 2050 (MT CO2e) | | 32,766 | | Cumulative project reductions by 2050 (MT CO2e) | | 1,182 | | Cumulative project reductions by 2050 (MT CO2e) | | 675 | | Cumulative project reductions by 2050 (MT CO2e) | | 5,626 | | Cumulative project reductions by 2050 (MT CO2e) | | 1,353 | | Cumulative project reductions by 2050 (MT CO2e) | | 369 | | Cumulative project reductions by 2050 (MT CO2e) | | 1,614 | |
| Estimated Project Cost (\$) | | \$ 16,209,201.00 | | Estimated Project Cost (\$) | | \$ 295,600 | | Estimated Project Cost (\$) | | \$ 340,300 | | Estimated Project Cost (\$) | | \$ 2,346,600 | | Estimated Project Cost (\$) | | \$ 634,500 | | Estimated Project Cost (\$) | | \$ 142,000 | | Estimated Project Cost (\$) | | \$ 580,500 | |
| Cost/MT CO2e | | \$ 494.70 | | Cost/MT CO2e | | \$ 250.15 | | Cost/MT CO2e | | \$ 503.96 | | Cost/MT CO2e | | \$ 417.10 | | Cost/MT CO2e | | \$ 469.10 | | Cost/MT CO2e | | \$ 385.08 | | Cost/MT CO2e | | \$ 359.66 | |
| City of Fillmore | | | | City of Oxnard | | | | City of Santa Paula | | | | No Data - City removed | | | | County of Ventura | | | | Housing Authority of the City of San Buenaventura | | | | Quail Springs | | | |
| Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | |
| Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | |
| Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | |
| Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | |
| City of Moorpark | | | | City of Port Hueneme | | | | City of Santa Paula | | | | City of Ventura | | | | GCTD | | | | Private Entity/Non-profit | | | | The Pacific Companies | | | |
| Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | | Cumulative project reductions by 2030 (MT CO2e) | | | |
| Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | | Cumulative project reductions by 2050 (MT CO2e) | | | |
| Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | | Estimated Project Cost (\$) | | | |
| Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | | Cost/MT CO2e | | | |

| Electric Vehicle Charging Program GHG Emissions Reductions - table for memorandum | | |
|---|-----------|-----------|
| Site Owner | 2025-2030 | 2025-2050 |
| City of Fillmore | 62 | 354 |
| City of Moorpark | 171 | 972 |
| City of Oxnard | 161 | 1,182 |
| City of Port Hueneme | 185 | 1,497 |
| City of Santa Paula | 92 | 675 |
| City of Simi Valley | 616 | 3,313 |
| City of Thousand Oaks New Evs | 61 | 294 |
| City of Ventura | 230 | 1,979 |
| County of Ventura | 1,034 | 5,626 |
| GCTD | 590 | 3,359 |
| GCTD New Evs | 284 | 1,353 |
| Housing Authority of the City of San Buenaventura | 259 | 1,353 |
| Private Entity/Non-profit | 685 | 7,380 |
| Quail Springs | 77 | 369 |
| The Pacific Companies | 116 | 553 |
| Towbes Group | 302 | 1,614 |
| VCTC | 155 | 884 |
| Total | 5,081 | 32,766 |

Pulled from calcs below

Pulled from calcs below

| New Electric Vehicles | | |
|---|---------------|---|
| Inputs, Targets, and Assumptions | Value | Source |
| Passenger VMT | 6,103,105,747 | 2022 GHG emissions inventory |
| Passenger Vehicles | 532,073 | EMFAC Fleet Database: https://arb.ca.gov/emfac/fleet-by/fleet114f8cd4728b7efac4f454afef5c43c4b0 |
| Average Passenger VMT/vehicle | 11,470 | Calculated |
| Commercial VMT | 633,887,108 | 2022 GHG emissions inventory |
| Commercial Vehicles | 153,114 | EMFAC Fleet Database: https://arb.ca.gov/emfac/fleet-by/fleet114f8cd4728b7efac4f454afef5c43c4b0 |
| Average Commercial VMT/vehicle | 4,139 | Calculated |
| Average lifespan of an EV (miles) | 200,000 | EV Connect: https://www.evconnect.com/bio q/How-long-does-an-electric-car-battery-last |
| Average lifespan of an EV (years) | 20 | Calculated |
| New GCTD Passenger Evs | 22 | Project information (8 BEV sedans, 14 BEV SUVs) |
| New GCTD Commercial Evs | 1 | Project information (1 EV Truck) |
| New City of Thousand Oaks Passenger Evs | 5 | Project information (5 DAR Cutaway Evs) |

| Parameter | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| New GCTD Passenger EVMT | 0 | 0 | 0 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 252349.4453 | 0 | 0 | 0 | |
| New GCTD Commercial EVMT | 0 | 0 | 0 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 4,138.89 | 0 | 0 | 0 | |
| New To Passenger EVMT | 0 | 0 | 0 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 57,352.15 | 0 | 0 | 0 | |
| Passenger VMT EF (MT CO2e/VMT) | 0.000313614 | 0.000305979 | 0.000299413 | 0.000292974 | 0.000287097 | 0.000281743 | 0.000276931 | 0.000272721 | 0.000268732 | 0.000265356 | 0.000262389 | 0.000259763 | 0.000257547 | 0.000255673 | 0.000254949 | 0.00025358 | 0.000252441 | 0.000251475 | 0.000250672 | 0.000249995 | 0.000249408 | 0.000248913 | 0.000248491 | 0.000248126 | 0.000247828 | 0.000247588 |
| Commercial VMT EF (MT CO2e/VMT) | 0.000960842 | 0.00094647 | 0.000930859 | 0.000915087 | 0.000899897 | 0.000885358 | 0.000870936 | 0.000857652 | 0.000844573 | 0.000831625 | 0.000818762 | 0.000806033 | 0.000793493 | 0.000781192 | 0.000769091 | 0.000757148 | 0.000745315 | 0.000733647 | 0.000722193 | 0.000710993 | 0.000699993 | 0.000689148 | 0.000678413 | 0.000667843 | 0.000657403 | 0.000647055 |
| New GCTD Passenger Ewh | 0 | 0 | 0 | 92864.85801 | 92911.00073 | 93015.08938 | 93061.60537 | 93085.34612 | 93140.79852 | 93171.15867 | 93197.25123 | 93219.54704 | 93248.6374 | 93284.90449 | 93326.66912 | 93380.91135 | 93491.18412 | 93609.91091 | 93707.20159 | 93813.20097 | 93918.17341 | 94022.13536 | 0 | 0 | 0 | |
| New GCTD Commercial Ewh | 0 | 0 | 0 | 3613.623668 | 3620.754366 | 3637.773282 | 3655.287689 | 3669.057925 | 3676.706347 | 3672.930243 | 3662.708702 | 3649.900669 | 3640.716212 | 3638.188591 | 3665.516629 | 3669.062481 | 3674.472308 | 3681.298047 | 3688.633233 | 3695.985519 | 3704.165442 | 3712.403007 | 3721.047534 | 0 | 0 | 0 |
| New To Passenger Ewh | 0 | 0 | 0 | 21105.64955 | 21116.15471 | 21127.33384 | 21139.79304 | 21150.8184 | 21168.36155 | 21175.26333 | 21181.19346 | 21186.26078 | 21190.59714 | 21194.29647 | 21197.49298 | 21200.20713 | 21202.54185 | 21204.52521 | 21206.18218 | 21207.55477 | 21208.67577 | 21209.58713 | 0 | 0 | 0 | |
| New GCTD Passenger Emission Reductions | - | - | - | 68 | 68 | 67 | 66 | 66 | 65 | 65 | 65 | 64 | 64 | 64 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | - | - | - | - |
| New GCTD Commercial Emission Reductions | - | - | - | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | - | - | - |
| New To Passenger Emission Reductions | 0 | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 0 | 0 | 0 |

| New Electric Vehicle Reductions | | |
|---------------------------------|-----------|-----------|
| Owner | 2025-2030 | 2025-2050 |
| GCTD New Evs | 284 | 1,353 |
| City of Thousand Oaks New Evs | 61 | 294 |

E-bike Incentives Program

| | |
|---|--|
| Quantification Details from Intake Form | Point-of-sale voucher incentives for the purchase of electric bicycles (e-bikes), including cargo e-bikes and adaptive e-bikes. The program will target farmworkers with an annual household income at or below 120% of the area median income or for those residing in a disadvantaged or low-income community based on CalEnviro Screen. Incentive amounts will range from \$1,500 to \$2,000. |
|---|--|

| | |
|-------------------------|--|
| Calculation Assumptions | - Using Rocky Mountain Institute (RMI) e-bike environmental and economic impact assessment calculator. |
|-------------------------|--|

| Inputs, Targets, and Assumptions | Value | Unit | Source |
|--|---------|----------|---|
| E-bikes distributed 2026 | 2430 | Bikes | Project details (Electrify Your Wheels - CPFG Implementation Grants Optional Budget) |
| E-bikes distributed 2027 | 4,374 | Bikes | |
| E-bikes distributed 2028 | 1,944 | Bikes | |
| E-bikes distributed 2029 | 972 | Bikes | |
| Total target e-bikes distributed | 9720 | Bikes | |
| % income-qualified cargo e-bike (\$2,000) | 20% | Percent | |
| % income-qualified commuting e-bikes (\$1,500) | 80% | Percent | |
| | | | |
| Miles biked per week (income qualified) | 32 | Miles | RMI e-bike environmental and economic impact assessment calculator (City of Denver's e-bike incentive program usage survey) |
| Miles biked per year (income qualified) | 1,669 | Miles | Calculated |
| Commuting e-bike efficiency | 0.01245 | kwh/mile | RMI e-bike environmental and economic impact assessment calculator |
| Cargo e-bike efficiency | 0.0099 | kwh/mile | RMI e-bike environmental and economic impact assessment calculator |

| Parameter | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
|---|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Passenger VMT | 6172621679 | 6195793657 | 6218965634 | 6242137611 | 6265309589 | 6288481566 | 6311653543 | 6334825521 | 6357997498 | 6381169476 | 6404341453 | 6427513430 | 6450685408 | 6473857385 | 6497029363 | 6520201340 | 6543373317 | 6566545295 | 6589717272 | 6612889249 | 6636061227 | 6659233204 | 6682405182 | 6705577159 | 6728749136 | 6751921114 |
| Passenger VMT EF (MT CO2e)/VMT) | 0.000313614 | 0.000305979 | 0.000299413 | 0.000292974 | 0.000287097 | 0.000281743 | 0.000276931 | 0.000272721 | 0.000268732 | 0.000265356 | 0.000262389 | 0.000259763 | 0.000257547 | 0.000256573 | 0.000254949 | 0.00025358 | 0.000252441 | 0.000251475 | 0.000250672 | 0.000249995 | 0.000249408 | 0.000248913 | 0.000248491 | 0.000248126 | 0.000247828 | 0.000247588 |
| New commuting e-bikes | 0 | 1944 | 3499.2 | 777.6 | 1555.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New cargo e-bikes | 0 | 486 | 874.8 | 0 | 388.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total new e-bikes | 0 | 2430 | 4374 | 1944 | 972 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative new commuting e-bikes | 0 | 1944 | 5443.2 | 6998.4 | 7776 | 7776 | 7776 | 7776 | 7776 | 5832 | 2332.8 | 777.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative new cargo e-bikes | 0 | 486 | 1360.8 | 1749.6 | 1944 | 1944 | 1944 | 1944 | 1944 | 1458 | 583.2 | 194.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative new e-bikes | - | 2430 | 6804 | 8748 | 9720 | 9720 | 9720 | 9720 | 9720 | 7290 | 2916 | 972 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yearly Passenger VMT reduced by commuting e-bikes | - | 3,243,705.52 | 9,082,375.46 | 11,677,339.88 | 12,974,822.09 | 12,974,822.09 | 12,974,822.09 | 12,974,822.09 | 12,974,822.09 | 9,731,116.57 | 3,892,446.63 | 1,297,482.21 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Yearly Passenger VMT reduced by cargo e-bikes | - | 810,926.38 | 2,270,593.87 | 2,919,334.97 | 3,243,705.52 | 3,243,705.52 | 3,243,705.52 | 3,243,705.52 | 3,243,705.52 | 2,432,779.14 | 973,111.66 | 324,370.55 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Yearly Passenger VMT reduced by e-bikes | - | 4,054,631.90 | 11,352,969.33 | 14,596,674.85 | 16,218,527.62 | 16,218,527.62 | 16,218,527.62 | 16,218,527.62 | 16,218,527.62 | 12,163,895.71 | 4,865,558.28 | 1,621,852.76 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Yearly Emission Reductions (MT CO2e) | - | 1,240.63 | 3,399.22 | 4,276.45 | 4,656.28 | 4,569.46 | 4,491.41 | 4,423.14 | 4,358.43 | 3,227.76 | 1,276.67 | 421.30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Yearly Electricity from Ebike (kWh) | - | 48,412.30 | 135,554.45 | 174,284.30 | 193,649.22 | 193,649.22 | 193,649.22 | 193,649.22 | 193,649.22 | 145,236.91 | 58,094.77 | 19,364.92 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Emissions from electricity usage from e-bikes (MT CO2e) | - | 4.55 | 10.77 | 11.53 | 10.46 | 8.34 | 7.31 | 6.29 | 5.27 | 3.19 | 0.97 | 0.29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Annual Reductions (MT CO2e) | - | 1,236.08 | 3,388.45 | 4,264.92 | 4,645.83 | 4,561.12 | 4,484.10 | 4,416.85 | 4,353.16 | 3,224.57 | 1,275.70 | 421.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Weighted electricity EF (MT CO2e/kWh) | 0.000109685 | 9.39888E-05 | 7.94766E-05 | 6.61484E-05 | 5.40042E-05 | 4.30441E-05 | 3.77673E-05 | 3.24905E-05 | 2.72136E-05 | 2.19368E-05 | 1.6666E-05 | 1.4994E-05 | 1.3328E-05 | 1.1662E-05 | 9.99599E-06 | 8.32999E-06 | 6.664E-06 | 4.998E-06 | 3.332E-06 | 1.666E-06 | 0 | 0 | 0 | 0 | 0 | 0 |

| E-BIKE INCENTIVE PROGRAM REDUCTIONS | | |
|---|----|---------------|
| Cumulative project reductions by 2030 (MT CO2e) | | 18,096 |
| Cumulative project reductions by 2050 (MT CO2e) | | 36,272 |
| Estimated Project Cost (\$) | \$ | 18,450,277.00 |
| Cost/MT CO2e | \$ | 508.67 |

E-bike GHG emissions reductions and co-benefit results -

| Table for memorandum | | |
|--|------------|-------------|
| Parameter | 2025-2030 | 2025-2050 |
| Cumulative new e-bikes | 9720 | 0 |
| Cumulative VMT reduced by e-bikes | 62,441,331 | 129,748,221 |
| Cumulative Reductions from VMT replacement with eb | 18,142 | 36,341 |
| Cumulative emissions from electricity | 45,646 | 68,965 |
| Cumulative GHG Emissions Reductions | 18,096.402 | 36,271.790 |

| Site Owner | Site Name | Address | City | Description of Site | Level 2 Dual Ports | Level 2 Single Port | Level 1 Dual Ports | DC Charging Ports | Total costs | Timeline | Year |
|-----------------------------|---|----------------------------|---------------|----------------------------|--------------------|---------------------|--------------------|-------------------|--------------|------------|------|
| City of Fillmore | Fillmore City Hall/Downtown | 250 Central Avenue | Fillmore | City Public Parking Lot | 2 | | | | \$265,000 | 12/30/2026 | 2026 |
| City of Fillmore | | | Fillmore | City Public Parking Lot | 2 | | | | \$112,100 | 12/30/2026 | 2026 |
| City of Moorpark | Moorpark Library | 82 High Street | Moorpark | Public Library | 6 | 1 | | | \$100,100 | 12/30/2026 | 2026 |
| City of Moorpark | Moorpark City Hall | 324 Science Drive | Moorpark | City Hall | 4 | | | | \$117,600 | 12/30/2026 | 2026 |
| City of Oxnard | Plaza Park | 500 S C St | Oxnard | Downtown Park | 8 | | | | \$82,400 | 12/30/2027 | 2027 |
| City of Oxnard | Durley Park | 910 Hill St | Oxnard | Park | 2 | | | | \$106,400 | 12/30/2027 | 2027 |
| City of Oxnard | Pleasant Valley Park | 721 E Dottie St | Oxnard | Park | 4 | | | | \$106,400 | 12/30/2027 | 2027 |
| City of Port Huemeue | Port Huemeue City Hall | 250 N. Ventura Rd | Port Huemeue | City Hall | 4 | | | | \$101,100 | 12/30/2026 | 2026 |
| City of Port Huemeue | Mar Vista Housing | 132 East Scott Street | Port Huemeue | Multifamily Housing | 2 | | | | \$10,100 | 12/30/2026 | 2026 |
| City of Port Huemeue | Bubbling Springs Park | 11000 East Scott Street | Port Huemeue | Public Park | 6 | | | | \$11,400 | 12/30/2027 | 2027 |
| City of Port Huemeue | Huemeue Beach Park | 550 E Surfside Dr | Port Huemeue | Beach Parking Lot | | | 6 | | \$136,000 | 10/30/2029 | 2029 |
| City of Santa Paula | Ebel Park | Main Street | Santa Paula | Downtown Public Park | 4 | | | | \$159,000 | 12/30/2027 | 2027 |
| City of Santa Paula | Santa Paula City Hall/Downtown | 970 Ventura Street | Santa Paula | City Public Parking Lot | 2 | | | | \$181,100 | 12/30/2027 | 2027 |
| City of Simi Valley | Simi Valley Public Works/Transit Yard | 490 W Los Angeles Ave. | Simi Valley | Maintenance Yard | 26 | | | | \$110,700 | 12/30/2026 | 2026 |
| City of Simi Valley | Simi Valley Metrolink/Amtrak Station | 5050 E Los Angeles Ave. | Simi Valley | Metrolink/Amtrak Station | 10 | 1 | | | \$652,000 | 12/30/2025 | 2025 |
| City of Ventura | | 783 N Ventura Ave | Ventura | Disrte multifamily housing | | | 4 | | \$1,590,000 | 10/29/2026 | 2026 |
| City of Ventura | | 501 Poll Street | Ventura | City Hall | 12 | | | | \$910,000 | 12/30/2027 | 2027 |
| City of Ventura | Museum Parking Lot | 100 East Main Street | Ventura | City Public Parking Lot | | | 4 | | \$149,700 | 10/30/2029 | 2029 |
| City of Ventura | Downtown Parking Structure | 74 South California Street | Ventura | City Public Parking Lot | | | 4 | | \$95,500 | 10/30/2029 | 2029 |
| County of Ventura | Government Center Lot F | 800 S Victoria Ave | Ventura | County Public Parking Lot | 20 | | | | \$470,000 | 10/29/2026 | 2026 |
| County of Ventura | Public Health Administration - Gonzales | 2240 E. Gonzales Rd | Oxnard | County Public Parking Lot | 6 | | | | \$351,400 | 10/29/2026 | 2026 |
| County of Ventura | Human Services Agency Office | 855 Partridge Dr | Ventura | County Public Parking Lot | 6 | | | | \$107,000 | 10/29/2026 | 2026 |
| County of Ventura | Ventura County Medical Center | 300 Hillmont Ave | Ventura | County Public Parking Lot | 6 | | | | \$129,100 | 10/29/2026 | 2026 |
| County of Ventura | Old APCD Office | 699 County Square Drive | Ventura | County Public Parking Lot | 3 | | | | \$111,000 | 12/30/2025 | 2025 |
| County of Ventura | Soule Golf Course | 1301 Soule Park Dr | Ojai | Public Park | 2 | | | | \$111,000 | 12/30/2025 | 2025 |
| County of Ventura | Forster Park | 418 Casita Vista Rd | Ventura | Public Park | 2 | | | | \$221,000 | 12/30/2025 | 2025 |
| County of Ventura | Santa Paula Hospital | 825 N 10th St | Santa Paula | Hospital | 4 | | | | \$111,000 | 12/30/2025 | 2025 |
| County of Ventura | Saticoy Golf Course | 11201 River Bank Dr | Ventura | Public Park | 2 | | | | \$111,000 | 12/30/2025 | 2025 |
| County of Ventura | Madera | 2900 N Madera | Simi Valley | County Public Parking Lot | 2 | | | | \$221,000 | 12/30/2025 | 2025 |
| County of Ventura | Oak Park Community Center | 18 Valley Road | Oak View | Community Center | 2 | | | | \$111,000 | 12/30/2026 | 2026 |
| County of Ventura | Animal Shelter | 600 Aviation Drive | Camarillo | County Public Parking Lot | 2 | | | | \$106,500 | 12/30/2027 | 2027 |
| County of Ventura | Channel Islands Harbor | 3900 Pelican Way | Oxnard | Harbor Parking Lot | 4 | | | | \$50,200 | 12/30/2026 | 2026 |
| County of Ventura | Health Care Agency Administration | 585.1 Thille St | Ventura | County Public Parking Lot | 2 | | | | \$118,000 | 12/30/2025 | 2025 |
| GCTD | GCTD Admin Office - Fleet | 1901 Auto Center Drive | Oxnard | Administration Office | 18 | 2 | | | \$118,000 | 12/30/2026 | 2026 |
| GCTD | GCTD Admin Office - Public | 1901 Auto Center Drive | Oxnard | Administration Office | 18 | | | | \$95,500 | 12/30/2026 | 2026 |
| hority of the City of San B | Villages at Westview | 336 w. Flint St. | Ventura | Disrte multifamily housing | 2 | 1 | | | \$64,500 | 12/30/2025 | 2025 |
| hority of the City of San B | Willie Ranch | 55 Willie Ranch St | Ventura | Disrte multifamily housing | 4 | | | | \$128,100 | 12/30/2025 | 2025 |
| hority of the City of San B | Valentine Road Apartments | 5818 Valentine Rd | Ventura | Disrte multifamily housing | 8 | | | | \$420,000 | 10/29/2026 | 2026 |
| Private Entity/Non-profit | Cosco | 3001 Ventura Blvd | Oxnard | Shopping Center | 4 | | | 4 | \$420,500 | 10/30/2029 | 2029 |
| Private Entity/Non-profit | Chanel Point Plaza | 2701 S Rose Ave 103 | Oxnard | Shopping Center | 4 | | | | \$420,500 | 10/30/2029 | 2029 |
| Private Entity/Non-profit | Pleasant Valley Shopping Center | 301 W Pleasant Valley Rd | Oxnard | Shopping Center | 4 | | | | \$420,500 | 12/30/2028 | 2028 |
| Private Entity/Non-profit | Raypak | 2151 Eastman Ave | Oxnard | Employment Center | 6 | | | 6 | \$119,000 | 10/30/2029 | 2029 |
| Private Entity/Non-profit | Procter and Gamble | 800 N Rice Ave | Oxnard | Employment Center | 8 | | | | \$444,000 | 12/30/2028 | 2028 |
| Private Entity/Non-profit | St. John's Regional Medical Center | ~1600 N Rose Ave | Oxnard | Hospital | 8 | | | | \$170,500 | 10/30/2029 | 2029 |
| Private Entity/Non-profit | Haas Automation | 2800 Sturgis Rd | Oxnard | Employment Center | 8 | | | | \$230,701 | 12/30/2028 | 2028 |
| Private Entity/Non-profit | Volkswagen | 201 N Del Norte Blvd | Oxnard | Employment Center | 8 | | | | \$170,500 | 12/30/2028 | 2028 |
| Private Entity/Non-profit | Mission Avocado | 2710 Camino Del Sol | Oxnard | Employment Center | 8 | | | | \$113,000 | 12/30/2028 | 2028 |
| Private Entity/Non-profit | | 300 North Marquita | Oxnard | Multifamily housing | 6 | | | | \$170,500 | 12/30/2027 | 2027 |
| Private Entity/Non-profit | | 5200 Squires Drive | Oxnard | Multifamily housing | 6 | | | | \$170,500 | 12/30/2027 | 2027 |
| Private Entity/Non-profit | | 415 South D Street | Oxnard | Multifamily housing | 6 | | | | \$90,500 | 12/30/2027 | 2027 |
| Private Entity/Non-profit | | 1470 Colonia Road | Oxnard | Multifamily housing | 4 | | | | \$119,000 | 12/30/2027 | 2027 |
| Private Entity/Non-profit | | 2640 Wagon Wheel Rd | Oxnard | Multifamily housing | 6 | | 2 | | \$142,000 | 10/30/2029 | 2029 |
| Private Entity/Non-profit | Community Conscience | 80 E. Hillcrest | Thousand Oaks | | 4 | | | | \$142,000 | 12/30/2027 | 2027 |
| Quail Springs | Quail Springs | 35070 Maricopa | Maricopa | Nonprofit | 4 | | | | \$142,000 | 12/30/2025 | 2025 |
| The Pacific Companies | Gateway Transit Apartments | 1230 S Oxnard Blvd | Oxnard | Disrte multifamily housing | 6 | | | | \$113,300 | 12/30/2025 | 2025 |
| Towles Group | Cypress Meadows | 1405 Cypress Point Lane | Ventura | Disrte multifamily housing | 6 | | | | \$177,500 | 10/29/2026 | 2026 |
| Towles Group | Cypress Point Apartments | 1241 Cypress Point Ln | Ventura | Disrte multifamily housing | 6 | | | | \$113,000 | 10/29/2026 | 2026 |
| Towles Group | Bakston Courtyards | 5525 Bakston St. | Ventura | Disrte multifamily housing | 6 | | | | \$60,000 | 12/30/2025 | 2025 |
| VTCT | Camarillo Metrolink/Amtrak Station | 30 N. Lewis Rd | Camarillo | Metrolink/Amtrak Station | 8 | | | | \$136,500 | 12/30/2026 | 2026 |
| VTCT | Moorpark Metrolink/Amtrak Station | 300 E. High Street | Moorpark | Metrolink/Amtrak Station | 2 | | | | \$64,000 | 12/30/2026 | 2026 |
| Totals | | | | | 323 | 5 | 4 | 30 | \$11,772,201 | | |

| Technical Assistance (\$1,295,000) | |
|------------------------------------|-------------|
| EV Blueprint - Regional Char | \$100,000 |
| EV Coach (Full Time) | \$655,000 |
| Program Admin (x) 45 hrs./yr. | \$140,000 |
| | \$1,295,000 |
| Total Cost | \$4,845,600 |

* Does not include SCE side cost for their grid and meter upgrades.

| GHG Emission Reductions in Year | |
|---------------------------------|-----------|
| 36.5 | 2025 |
| 86.7 | 2026 |
| 132.4 | 2027 |
| 152.4 | 2028 |
| 156.7 | 2029 |
| 156.7 | 2030 |
| 6872.5 | 2025-2030 |
| 144322.5 | 2025-2050 |

Cost Effectiveness \$705

Source: <https://leftee.es.anl.gov/infrastructure-emissions/public/>

Electric Vehicles - these vehicles will be charging at new sites (not those included in the calculations above) funded by various grants other grants (CPI and CARB grants). They will be replacing existing fossil fuel powered vehicles.

| Solid Coast Transit District | | GCTD Admin Office - Fleet Vehicles | 1901 Auto Center Drive | Oxnard | Administration Office | 8 BEV sedans (136,000), 14 BEV SUVs (154,000), 1 EV truck (60,000) | | | | | \$1,137,000 | | | | |
|------------------------------|--|------------------------------------|------------------------|---------------|-----------------------|--|--|--|--|--|-------------|--|--|--|--|
| City of Thousand Oaks | | City of TO Transit Center | 265 S. Rancho Road | Thousand Oaks | Transit Office/Yard | 1 DAB Cutaway Dis | | | | | \$1,800,000 | | | | |

Source CARB Fleet Web Database

Region typ County

Region VENTURA

Calendar Y 2021

Vehicle Ca P, Passeng T1, Light-d T2, Light-d T3, Medium T4, Light-h T5, Light-h T6, Medium T7, Heavy- BS, School BT, Urban buses B, All other MH, Motor Homes

GVWR Cla: Yes

Fuel Type Gasoline Diesel Electric Natural Gas Hydrogen

Fuel Techn ICE BEV FCEV PHEV

Electric Mi Aggregate

Model Yea Aggregate

Number of Aggregate

Vehicle Po Aggregate

| Vehicle Ca | GVWR Cla | Fuel Type | Fuel Techn | County | Vehicle Population | Total | 685,227 |
|------------|------------|-------------|------------|---------|--------------------|------------|------------|
| B | Not Applic | Diesel | ICE | VENTURA | 121 | | |
| B | Not Applic | Electric | BEV | VENTURA | 39 | | |
| B | Not Applic | Gasoline | ICE | VENTURA | 407 | Commercial | 153,154.00 |
| B | Not Applic | Natural Gas | ICE | VENTURA | 8 | Passenger | 532,073.00 |
| BS | Not Applic | Diesel | ICE | VENTURA | 323 | | |
| BS | Not Applic | Electric | BEV | VENTURA | 3 | | |
| BS | Not Applic | Gasoline | ICE | VENTURA | 172 | | |
| BS | Not Applic | Natural Gas | ICE | VENTURA | 15 | | |
| BT | Not Applic | Diesel | ICE | VENTURA | 132 | | |
| BT | Not Applic | Gasoline | ICE | VENTURA | 60 | | |
| BT | Not Applic | Natural Gas | ICE | VENTURA | 75 | | |
| MC | Not Applic | Diesel | ICE | VENTURA | 5 | | |
| MC | Not Applic | Electric | BEV | VENTURA | 48 | | |
| MC | Not Applic | Gasoline | ICE | VENTURA | 20413 | | |
| MH | Not Applic | Diesel | ICE | VENTURA | 1769 | | |
| MH | Not Applic | Gasoline | ICE | VENTURA | 5217 | | |
| P | Not Applic | Diesel | ICE | VENTURA | 1780 | | |
| P | Not Applic | Electric | BEV | VENTURA | 9029 | | |
| P | Not Applic | Gasoline | ICE | VENTURA | 306993 | | |
| P | Not Applic | Gasoline | PHEV | VENTURA | 4575 | | |
| P | Not Applic | Hydrogen | FCEV | VENTURA | 138 | | |
| P | Not Applic | Natural Gas | ICE | VENTURA | 71 | | |
| T1 | Unknown | Diesel | ICE | VENTURA | 2 | | |
| T1 | Unknown | Gasoline | ICE | VENTURA | 327 | | |
| T1 | 1 | Diesel | ICE | VENTURA | 31 | | |
| T1 | 1 | Electric | BEV | VENTURA | 37 | | |
| T1 | 1 | Gasoline | ICE | VENTURA | 36660 | | |
| T1 | 1 | Gasoline | PHEV | VENTURA | 59 | | |
| T2 | Unknown | Diesel | ICE | VENTURA | 6 | | |
| T2 | Unknown | Electric | BEV | VENTURA | 5 | | |
| T2 | Unknown | Gasoline | ICE | VENTURA | 1439 | | |
| T2 | 1 | Diesel | ICE | VENTURA | 497 | | |
| T2 | 1 | Electric | BEV | VENTURA | 119 | | |
| T2 | 1 | Gasoline | ICE | VENTURA | 142364 | | |
| T2 | 1 | Gasoline | PHEV | VENTURA | 489 | | |
| T3 | Unknown | Electric | BEV | VENTURA | 2 | | |
| T3 | Unknown | Gasoline | ICE | VENTURA | 280 | | |
| T3 | Unknown | Natural Gas | ICE | VENTURA | 1 | | |
| T3 | 2 | Diesel | ICE | VENTURA | 2501 | | |
| T3 | 2 | Electric | BEV | VENTURA | 169 | | |
| T3 | 2 | Gasoline | ICE | VENTURA | 110501 | | |
| T3 | 2 | Gasoline | PHEV | VENTURA | 427 | | |
| T3 | 2 | Natural Gas | ICE | VENTURA | 22 | | |
| T4 | Unknown | Diesel | ICE | VENTURA | 4 | | |
| T4 | Unknown | Gasoline | ICE | VENTURA | 14 | | |
| T4 | Unknown | Natural Gas | ICE | VENTURA | 14 | | |
| T4 | 2 | Diesel | ICE | VENTURA | 10112 | | |
| T4 | 2 | Gasoline | ICE | VENTURA | 13489 | | |

| | | | | | |
|----|---------|-------------|------|---------|------|
| T4 | 2 | Gasoline | PHEV | VENTURA | 3 |
| T4 | 2 | Natural Gas | ICE | VENTURA | 12 |
| T5 | 3 | Diesel | ICE | VENTURA | 4121 |
| T5 | 3 | Gasoline | ICE | VENTURA | 2196 |
| T6 | Unknown | Diesel | ICE | VENTURA | 56 |
| T6 | Unknown | Electric | BEV | VENTURA | 5 |
| T6 | Unknown | Gasoline | ICE | VENTURA | 32 |
| T6 | 4 | Diesel | ICE | VENTURA | 484 |
| T6 | 4 | Gasoline | ICE | VENTURA | 622 |
| T6 | 4 | Natural Gas | ICE | VENTURA | 2 |
| T6 | 5 | Diesel | ICE | VENTURA | 1509 |
| T6 | 5 | Gasoline | ICE | VENTURA | 277 |
| T6 | 5 | Natural Gas | ICE | VENTURA | 1 |
| T6 | 6 | Diesel | ICE | VENTURA | 1428 |
| T6 | 6 | Gasoline | ICE | VENTURA | 170 |
| T6 | 7 | Diesel | ICE | VENTURA | 688 |
| T6 | 7 | Gasoline | ICE | VENTURA | 38 |
| T6 | 7 | Natural Gas | ICE | VENTURA | 1 |
| T7 | 8 | Diesel | ICE | VENTURA | 2418 |
| T7 | 8 | Gasoline | ICE | VENTURA | 128 |
| T7 | 8 | Natural Gas | ICE | VENTURA | 72 |

| Background Information | |
|-------------------------------|----------------|
| County | Ventura County |
| City or Unincorporated County | Countywide |
| Enter Inventory Year | 2022 |

Choose IPCC Report AR5

| GHG | GWP | Source |
|------------------|-----|---------|
| CO ₂ | 1 | << IPCC |
| CH ₄ | 28 | << IPCC |
| N ₂ O | 265 | << IPCC |

1.1) Electricit

eGRID

| | | | | | |
|-------|------|------|-------------|----------|----------------------|
| eGR/D | CAMX | N2O | lbs N2O/MWh | 0.004 | EPA Emission Factors |
| eGR/D | CAMX | CO2 | lbs CO2/MWh | 497.40 | EPA Emission Factors |
| eGR/D | CAMX | CO2e | MT CO2e/kWh | 0.000226 | Calculated |

| Provider | Reported Incidence |
|----------|--------------------|
|----------|--------------------|

| | | | | | |
|----------------------------|-----|--------------|----------|------------|---------------------------|
| SCF Power Mix | 552 | Btu CO2a/MWh | 0.000250 | MT CO2a/Wh | 2022 PCL, provided |
| SCF Green Rate 50% Option | 275 | Btu CO2a/MWh | 0.000125 | MT CO2a/Wh | 2022 PCL, provided |
| SCF Green Rate 100% Option | 0 | Btu CO2a/MWh | 0.000000 | MT CO2a/Wh | 2022 PCL, provided |
| CPL Lean Power | 566 | Btu CO2a/MWh | 0.000257 | MT CO2a/Wh | 2022 PCL, https://cpl.com |
| CPL Clean Power | 490 | Btu CO2a/MWh | 0.000222 | MT CO2a/Wh | 2022 PCL, https://cpl.com |
| CPL 100% Green Power | 0 | Btu CO2a/MWh | 0.000000 | MT CO2a/Wh | 2022 PCL, https://cpl.com |
| Direct Access | | | 0.000226 | MT CO2a/Wh | Calculated |

Note: Emission factors reported as MT CO₂e/Wh are not subject to IPCC GWP adjustments (see tables above) and are dependent on the GWPs used from the reporting source.

| Provider |
|----------|
|----------|

| | | |
|----------------------------|-----------|---------------|
| SCE Power Mix | 0.0002504 | |
| SCE Green Rate 50% Option | 0.0001247 | |
| SCE Green Rate 100% Option | 0.0000000 | |
| CPA Lean Power | 0.0002567 | 779,016,534 |
| CPA Clean Power | 0.0002223 | 126,836,663 |
| CPA 100% Green Power | 0.0000000 | 1,443,513,307 |
| Direct Access | 0.0002265 | |

| T&D Losses | Value |
|------------|-------|
|------------|-------|

| | | |
|-----------------|-------|---|
| T&D loss factor | 4.23% | https://www.epa.gov/egrid/historical-egrid-data |
|-----------------|-------|---|

Provider _____

| | | | |
|---------------|---------|---------------|--------|
| SCE Power Mix | 33.20% | | |
| CPA Green | 100.00% | 1,443,531,307 | |
| CPA Clean | 40.10% | 126,836,663 | 63.61% |
| CPA Lean | 0.00% | 779,016,534 | |
| CAMX | 33.90% | | |

| Provider |
|----------|
|----------|

| | | |
|------|--------|--------|
| CAMX | 4.53% | 20.89% |
| SCE | 18.00% | 19.00% |
| CPA | 77.47% | 59.31% |

1.2.1) Natural Gas

| Fuel Type | Heat Content (HHV) mmBtu per scf | CO2 Factor kg CO2 per mmBtu | CH4 Factor g CH4 per mmBtu | N2O Factor g N2O per mmBtu | CO2 Factor kg CO2 per scf | CH4 Factor g CH4 per scf | N2O Factor g N2O per scf | Source |
|-------------|-------------------------------------|--------------------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|-----------------------------|---------------------------|
| Natural Gas | 0.0010 | 53.0600 | 1.0000 | 1.0000 | 0.0544 | 0.0010 | 0.0001 | cc Environmental Projects |

| Emission Factor | Value | Unit |
|-----------------|----------|---------------|
| Natural Gas | 0.005311 | MT CO2e/therm |
| Natural Gas | 0.000054 | MT CO2e/scf |
| Natural Gas | 0.053115 | MT CO2e/MMBtu |

| Leakage | Stage |
|---------|-------|
|---------|-------|

| | | | | |
|---------------------|----------|--------|----------------------------|---------------------------------|
| Methane leak factor | pipeline | 2.30% | percentage | cc Alvarez, Bando et al. (2013) |
| Methane leak factor | end-use | 0.50% | percentage | cc Environmental Defense F. |
| Methane leak EF | | 0.0531 | MT CO ₂ e/therm | cc Calculated: 2 BS cubic m/yr |
| Methane leak EF | | 0.0005 | MT CO ₂ e/scf | |
| Methane leak EF | | 0.5307 | MT CO ₂ e/MMBtu | |

2.1) EPA Emission Factors for Mobile Combustion

[illegible]

3) Solid Waste

3.1) U.S. Community Protocol Default Parameters

| CRU (CRU/short ton waste) | Value | Unit | Source |
|-----------------------------|-------|----------|--|
| Mixed MSW | 0.660 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Office Paper | 0.209 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Corrugated Cardboard | 0.190 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Card Paper | 0.046 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Food Waste | 0.076 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Labels | 0.031 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Books | 0.029 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Textiles | 0.065 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Construction and Demolition | 0.021 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Plastics | 0.076 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |
| Budget and Manure | 0.011 | Fraction | U.S. Community Profile Appendix 1, Solid Waste |

| U.S. Community Protocol Defaults | Value | Unit | Source |
|----------------------------------|-------|----------|---|
| LFG Collection Efficiency | 0.750 | Fraction | << US Community Protocol Appendix E - Solid Waste |
| Oxidation Rate | 0.100 | Fraction | << US Community Protocol Appendix E - Solid Waste |

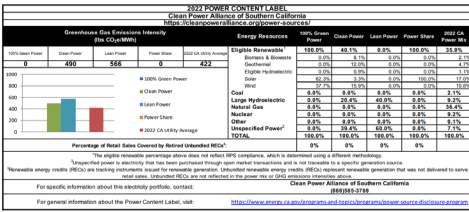
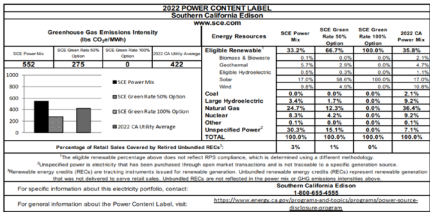
3.1.1) Equation SW.5

| Parameter | Value | Unit |
|------------------------------|--------|--------------------------|
| Landfill process EF (diesel) | 0.0164 | MT CO ₂ e/ton |
| Landfill process EF (CNG) | 0.0110 | MT CO ₂ e/ton |

4) Wastewater and Water

4.1) U.S. Community Protocol Default Parameters

| Parameter | Value | Unit | Source |
|-----------|-------|------|--------|
|-----------|-------|------|--------|

[illegible]

| | | | |
|----------------------------------|--------|--------------------|--|
| Digester gas produced per person | 1.0000 | std ft3/person/day | << US Community Protocol Appendix F - Wastewater |
| Fraction of CH4 in gas | 0.6500 | Fraction | << US Community Protocol Appendix F - Wastewater |
| Default BTU content of CH4 | 1.028 | BTU/lb3 | << US Community Protocol Appendix F - Wastewater |
| CH4 emission factor | 0.0032 | kg CH4/MMBTU | << US Community Protocol Appendix F - Wastewater |
| Conversion from days to year | 365.25 | day/year | << US Community Protocol Appendix F - Wastewater |

4.1.2) Equation WW.2(a)

| Parameter | Value | Unit | Source |
|------------------------------------|--------|--------------------|--|
| Wastewater gas produced per person | 1.0000 | std ft3/person/day | << US Community Protocol Appendix F - Wastewater |
| Fraction of CH4 in gas | 0.6500 | Fraction | << US Community Protocol Appendix F - Wastewater |
| Default BTU content of CH4 | 1.028 | BTU/lb3 | << US Community Protocol Appendix F - Wastewater |
| N2O emission factor | 0.0006 | kg N2O/MMBTU | << US Community Protocol Appendix F - Wastewater |
| Conversion from days to year | 365.25 | day/year | << US Community Protocol Appendix F - Wastewater |

4.1.3) Equation WW.7

| Parameter | Value | Unit |
|-------------------------------------|-------|-------------------|
| Factor for high N loading of ind/ro | 1.25 | |
| Factor for insignificant ind/comm | 1.00 | |
| Emission factor for a WWTP with r | 7.00 | g N2O/person/year |

4.1.4) Equation WW.8

| Parameter | Value | Unit |
|-------------------------------------|-------|-------------------|
| Factor for high N loading of ind/ro | 1.25 | |
| Factor for insignificant ind/comm | 1.00 | |
| Emission factor for a WWTP withro | 3.20 | g N2O/person/year |

4.1.5) Equation WW.12

| Parameter | Value | Unit |
|------------------------------------|----------|---------------------------------|
| Emission factor (river discharge) | 0.0010 | kg N2O-N/kg sewage-N discharged |
| Emission factor (ocean discharge) | 0.0025 | kg N2O-N/kg sewage-N discharged |
| Molecular weight ratio of N2O to 1 | 1.5700 | |
| Conversion from days to year | 365.2500 | day/year |

4.1.6) Equation WW.12(a)

| Parameter | Value | Unit |
|-------------------------------------|---------|---------------------------------|
| Factor for industrial or commercial | 1.250 | |
| Average total nitrogen per day | 0.026 | kg N/person/day |
| Nitrogen uptake for cell growth in | 0.050 | kg N/kg BOD5 |
| Nitrogen uptake for cell growth in | 0.005 | kg N/kg BOD5 |
| Amount of BOD5 produced per pe | 0.090 | kg BOD5/person/day |
| Emission factor (river) | 0.005 | kg N2O-N/kg sewage-N discharged |
| Emission factor (ocean) | 0.003 | kg N2O-N/kg sewage-N discharged |
| Molecular weight ratio of N2O to 1 | 1.570 | |
| Fraction of nitrogen removed from | 0.700 | |
| Fraction of nitrogen removed from | 0.000 | |
| Conversion from days to year | 365.250 | day/year |

4.1.7) Table WW.14.4: Energy Intensities for Water Treatment

| Value Range | <1 MGD (kwh/m3) | 1-5 MGD (kwh/m3) | 5-20 MGD (kwh/m3) | >20 MGD (kwh/m3) |
|--------------|-----------------|------------------|-------------------|------------------|
| Low Value | 500 | 700 | 180 | 110 |
| Medium Value | 1,500 | 750 | 560 | 210 |
| High Value | 2,000 | 1,300 | 1,100 | 2,000 |

5) EPA Stationary Combustion Emission Factors

6) Fuel Conversion Factors

Fuel Conversion to Gasoline Gallon Equivalents

| Fuel Type | Fuel Measurement Unit | Conversion Factor | GGE Calculation | Source |
|--------------------|---------------------------|----------------------|----------------------------------|---------------------------|
| Btu | Gallons | 1.0660 | GGE = Btu/gal x 1.066 | <<3. Department of Energy |
| CHG @ 2400 psi | Gallons @ 2400 psi | 0.1910 | GGE = CHG gal @ 2400 psi x 0.191 | <<3. Department of Energy |
| CHG @ 3600 psi | Gallons @ 3600 psi | 0.2870 | GGE = CHG gal @ 3600 psi x 0.287 | <<3. Department of Energy |
| CHG @ 3000 psi | Gallons @ 3000 psi | 0.2390 | GGE = CHG gal @ 3000 psi x 0.239 | <<3. Department of Energy |
| CHG | Hundred cubic feet | 0.8770 | GGE = CHG ccf x 0.877 | <<3. Department of Energy |
| Diesel | Gallons | 1.1550 | GGE = Diesel gal x 1.155 | <<3. Department of Energy |
| EES | Gallons | 0.7340 | GGE = EES gal x 0.734 | <<3. Department of Energy |
| Electricity | kWh | 0.0310 | GGE = Electricity kWh x 0.031 | <<3. Department of Energy |
| Gasoline | Gallons | No conversion needed | GGE = Gasoline gal | <<3. Department of Energy |
| Hydrogen (kg) | kg | 1.0190 | GGE = H2 kg x 1.019 | <<3. Department of Energy |
| Hydrogen (gallons) | Gallons | 0.2560 | GGE = H2 gal x 0.256 | <<3. Department of Energy |
| LNG | Gallons @ 14.7 psi and -2 | 0.6660 | GGE = LNG gal x 0.666 | <<3. Department of Energy |
| LPG | Gallons | 0.7580 | GGE = LPG gal x 0.758 | <<3. Department of Energy |

7) Conversion Factors

| | |
|-----------|---------------------|
| 2,205 | Btu/MT |
| 1,000 | g/kg |
| 1,000,000 | mg/kg |
| 1,000,000 | g/MT |
| 20,3000 | kWh/therm |
| 0.1000 | mmBtu/therm |
| 1,000,000 | BTU/mmBtu |
| 1,000 | kg/MT |
| 1,000,000 | g/MT |
| 1,000 | kWh/MWh |
| 315,851 | gallons/M |
| 1,000,000 | gal/million-gallons |
| 3.7854 | L/gal |
| 365.2500 | days/year |
| 100.0000 | scf/cuft |
| 139.3100 | scf/GGE |

[https://afdc.energy.gov/laws/11223#?text=Compressed%20natural%20gas%20\(GGE\)%20and_cubic%20feet%20to%206.38%20pounds](https://afdc.energy.gov/laws/11223#?text=Compressed%20natural%20gas%20(GGE)%20and_cubic%20feet%20to%206.38%20pounds)

Demographic Data

Ventura County Growth Forecast

| Year | 2022 | 2030 | 2035 | 2040 | 2045 |
|--------------------------------|-----------|------|------|------|------|
| Population | 831,533 | 0 | 0 | 0 | 0 |
| Households | 294,989 | 0 | 0 | 0 | 0 |
| Employment | 409,387 | 0 | 0 | 0 | 0 |
| Non-residential Establishments | 22,158 | | | | |
| Population Serviced* | 1,240,920 | 0 | 0 | 0 | 0 |

* Population serviced (or service population) is the sum of population and employment

1) Population

| County/City | 2022 | 2030 | 2035 | 2040 | 2045 |
|----------------|---------|------|------|------|------|
| Ventura County | 831,533 | | | | |

CA Department of Finance, 2022 E-5 Dataset

2) Households (Housing Units)

| County/City | 2022 | 2030 | 2035 | 2040 | 2045 |
|----------------|---------|------|------|------|------|
| Ventura County | 294,989 | | | | |

CA Department of Finance, 2022 E-5 Dataset

3) Employment

| County/City | 2022 | 2030 | 2035 | 2040 | 2045 |
|----------------|---------|------|------|------|------|
| Ventura County | 409,387 | | | | |

U.S. Census Bureau, 2022 American Community Survey (ACS) 5-Year Estimates

4) Forecasted Demographics

TABLE 13 County Forecast of Population, Households, and Employment

| | | 2000 | 2016 | 2020 | 2030 | 2035 | 2045 |
|------------|----------------|------------|------------|------------|------------|------------|------------|
| POPULATION | Imperial | 143,000 | 187,000 | 223,000 | 249,000 | 260,000 | 281,000 |
| | Los Angeles | 9,544,000 | 10,110,000 | 10,407,000 | 10,900,000 | 11,174,000 | 11,674,000 |
| | Orange | 2,854,000 | 3,180,000 | 3,268,000 | 3,441,000 | 3,499,000 | 3,535,000 |
| | Riverside | 1,557,000 | 2,364,000 | 2,493,000 | 2,853,000 | 2,996,000 | 3,252,000 |
| | San Bernardino | 1,719,000 | 2,141,000 | 2,250,000 | 2,474,000 | 2,595,000 | 2,815,000 |
| | Ventura | 757,000 | 850,000 | 877,000 | 906,000 | 920,000 | 947,000 |
| | SCAG Region | 16,574,000 | 18,832,000 | 19,518,000 | 20,821,000 | 21,443,000 | 22,504,000 |
| EMPLOYMENT | Imperial | 57,000 | 67,000 | 79,000 | 102,000 | 110,000 | 130,000 |
| | Los Angeles | 4,448,000 | 4,743,000 | 4,838,000 | 5,060,000 | 5,172,000 | 5,382,000 |
| | Orange | 1,505,000 | 1,710,000 | 1,774,000 | 1,886,000 | 1,928,000 | 1,980,000 |
| | Riverside | 509,000 | 743,000 | 823,000 | 961,000 | 1,009,000 | 1,103,000 |
| | San Bernardino | 600,000 | 791,000 | 834,000 | 926,000 | 972,000 | 1,064,000 |
| | Ventura | 301,000 | 335,000 | 348,000 | 369,000 | 376,000 | 389,000 |
| | SCAG Region | 7,419,000 | 8,389,000 | 8,695,000 | 9,304,000 | 9,566,000 | 10,049,000 |
| HOUSEHOLDS | Imperial | 39,000 | 50,000 | 66,000 | 78,000 | 83,000 | 92,000 |
| | Los Angeles | 3,134,000 | 3,319,000 | 3,472,000 | 3,749,000 | 3,885,000 | 4,119,000 |
| | Orange | 935,000 | 1,025,000 | 1,065,000 | 1,104,000 | 1,125,000 | 1,154,000 |
| | Riverside | 506,000 | 716,000 | 785,000 | 930,000 | 988,000 | 1,086,000 |
| | San Bernardino | 529,000 | 630,000 | 668,000 | 751,000 | 793,000 | 875,000 |
| | Ventura | 243,000 | 271,000 | 278,000 | 291,000 | 296,000 | 306,000 |
| | SCAG Region | 5,386,000 | 6,012,000 | 6,333,000 | 6,903,000 | 7,170,000 | 7,633,000 |

Population

2020
877,000

2030
906,000

2045
947,000

Employment

2020
348,000

2030
369,000

2045
389,000

Households

2020
278,000

2030
291,000

2045
306,000

Source: CA DDF, CA EDD, SCAG
Note: All figures are rounded to the nearest thousand.

source: https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial_demographics-and-growth-forecast.pdf?1606001579

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Selected Economic Characteristics



Note: The table shown may have been modified by user selections. Some information may be missing.

DATA NOTES

| | |
|-----------------|--|
| TABLE ID: | DP03 |
| SURVEY/PROGRAM: | American Community Survey |
| VINTAGE: | 2022 |
| DATASET: | ACSDP5Y2022 |
| PRODUCT: | ACS 5-Year Estimates Data Profiles |
| UNIVERSE: | None |
| MLA: | U.S. Census Bureau. "Selected Economic Characteristics." American Community Survey, ACS 5-Year Estimates Data Profiles, Table DP03, 2022, https://data.census.gov/table/ACSDP5Y2022.DP03?q=employment in Ventura County, California&g=060XX00US0611190350,0611190988,0611190990,0611191560,0611191770,0611191930,0611192020,0611192245,0611192310,0611192930,0611193020,0611193350,0611193420,0611193422,0611193550 . Accessed on December 14, 2023. |
| FTP URL: | None |
| API URL: | https://api.census.gov/data/2022/acs/acs5/profile |

USER SELECTIONS

| | |
|--------|--|
| TOPICS | Employment |
| GEOS | Ventura County, California; Camarillo CCD, Ventura County, California; Fillmore CCD, Ventura County, California; Fillmore-Piru CCD, Ventura County, California; Las Posas CCD, Ventura County, California; Los Padres CCD, Ventura County, California; Meiners Oaks-Ojai CCD, Ventura County, California; Moorpark CCD, Ventura County, California; Ojai-Mira Monte CCD, Ventura County, California; Oxnard CCD, Ventura County, California; Santa Paula CCD, Ventura County, California; Ventura CCD, Ventura County, California; Simi Valley CCD, Ventura County, California; Thousand Oaks CCD, Ventura County, California; Triunfo Pass-Point Mugu CCD, Ventura County, California; Triunfo Pass-Coastal CCD, Ventura County, California |

EXCLUDED COLUMNS None

APPLIED FILTERS None

APPLIED SORTS None

PIVOT & GROUPING

| | |
|---------------|------|
| PIVOT COLUMNS | None |
| PIVOT MODE | Off |
| ROW GROUPS | None |
| VALUE COLUMNS | None |

WEB ADDRESS <https://data.census.gov/table/ACSDP5Y2022.DP03?q=employment%20in%20Ventura%20County,%20California&g=060XX00US0611190350,0611190988,0611190990,0611191560,0611191770,0611191930,0611192020,0611192245,0611192310,0611192930,0611193020,0611193350,0611193420,0611193422,0611193550>

TABLE NOTES

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, the decennial census is the official source of population totals for April 1st of each decennial year. In between censuses, the Census Bureau's Population Estimates Program produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Information about the American Community Survey (ACS) can be found on the ACS website. Supporting documentation including code lists, subject definitions, data accuracy, and statistical testing, and a full list of ACS tables and table shells (without estimates) can be found on the Technical Documentation section of the ACS website.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Source: U.S. Census Bureau, 2018-2022 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

Employment and unemployment estimates may vary from the official labor force data released by the Bureau of Labor Statistics because of differences in survey design and data collection. For guidance on differences in employment and unemployment estimates from different sources go to Labor Force Guidance.

Workers include members of the Armed Forces and civilians who were at work last week.

Industry titles and their 4-digit codes are based on the 2017 North American Industry Classification System. The Industry categories adhere to the guidelines issued in Clarification Memorandum No. 2, "NAICS Alternate Aggregation Structure for Use By U.S. Statistical Agencies," issued by the Office of Management and Budget.

Occupation titles and their 4-digit codes are based on the 2018 Standard Occupational Classification.

Logical coverage edits applying a rules-based assignment of Medicaid, Medicare and military health coverage were added as of 2009 -- please see https://www.census.gov/library/working-papers/2010/demo/coverage_edits_final.html for more details. Select geographies of 2008 data comparable to the 2009 and later tables are available at <https://www.census.gov/data/tables/time-series/acs/1-year-re-run-health-insurance.html>. The health insurance coverage category names were modified in 2010. See https://www.census.gov/topics/health/health-insurance/about/glossary.html#par_textimage_18 for a list of the insurance type definitions.

Beginning in 2017, selected variable categories were updated, including age-categories, income-to-poverty ratio (IPR) categories, and the age universe for certain employment and education variables. See user note entitled "Health Insurance Table Updates" for further details.

Several means of transportation to work categories were updated in 2019. For more information, see: Change to Means of Transportation.

Between 2018 and 2019 the American Community Survey retirement income question changed. These changes resulted in an increase in both the number of households reporting retirement income and higher aggregate retirement income at the national level. For more information see Changes to the Retirement Income Question .

The categories for relationship to householder were revised in 2019. For more information see Revisions to the Relationship to Household item.

In 2019, methodological changes were made to the class of worker question. These changes involved modifications to the question wording, the category wording, and the visual format of the categories on the questionnaire. The format for the class of worker categories are now listed under the headings "Private Sector Employee," "Government Employee," and "Self-Employed or Other." Additionally, the category of Active Duty was added as one of the response categories under the "Government Employee" section for the mail questionnaire. For more detailed information about the 2019 changes, see the 2016 American Community Survey Content Test Report for Class of Worker located at http://www.census.gov/library/working-papers/2017/acs/2017_Martinez_01.html.

Beginning in data year 2019, respondents to the Weeks Worked question provided an integer value for the number of weeks worked. For data years 2008 through 2018, respondents selected a category corresponding to the number of weeks worked.

The 2018-2022 American Community Survey (ACS) data generally reflect the March 2020 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on 2020 Census data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:- The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution. For a 5-year median estimate, the margin of error associated with a median was larger than the median itself.N The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area. (X) The estimate or margin of error is not applicable or not available.median- The median falls in the lowest interval of an open-ended distribution (for example "2,500-")median+ The median falls in the highest interval of an open-ended distribution (for example "250,000+").** The margin of error could not be computed because there were an insufficient number of sample observations.*** The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.***** A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.

COLUMN NOTES

None

| Table 2: E-5 City/County Population and Housing Estimates, 1/1/2019 | | | | | | | | | | | | | |
|---|-------------------|------------|-----------|----------------|---------------|-----------------|-----------------|-------------|-----------|--------------|----------|--------------|-----------------------|
| County | City | POPULATION | | | HOUSING UNITS | | | | | | | Vacancy Rate | Persons per Household |
| | | Total | Household | Group Quarters | Total2 | Single Detached | Single Attached | Two to Four | Five Plus | Mobile Homes | Occupied | | |
| Ventura | Camarillo | 69,689 | 69,278 | 411 | 27,439 | 16,094 | 4,721 | 1,047 | 4,557 | 1,020 | 26,320 | 4.1% | 2.63 |
| Ventura | Fillmore | 15,671 | 15,505 | 166 | 4,649 | 3,442 | 232 | 350 | 239 | 386 | 4,358 | 6.3% | 3.56 |
| Ventura | Moorpark | 36,627 | 36,627 | 0 | 11,410 | 8,343 | 1,518 | 205 | 1,201 | 143 | 11,133 | 2.4% | 3.29 |
| Ventura | Ojai | 7,498 | 7,318 | 180 | 3,460 | 2,395 | 320 | 430 | 315 | 0 | 3,122 | 9.8% | 2.34 |
| Ventura | Oxnard | 205,777 | 204,343 | 1,434 | 55,611 | 30,704 | 5,790 | 3,846 | 12,656 | 2,615 | 51,963 | 6.6% | 3.93 |
| Ventura | Port Hueneme | 23,554 | 22,802 | 752 | 8,280 | 2,690 | 2,373 | 955 | 2,253 | 9 | 7,764 | 6.2% | 2.94 |
| Ventura | San Buenaventura | 106,616 | 104,738 | 1,878 | 43,645 | 24,286 | 4,819 | 3,317 | 8,850 | 2,373 | 41,019 | 6.0% | 2.55 |
| Ventura | Santa Paula | 30,547 | 30,414 | 133 | 9,009 | 5,214 | 716 | 903 | 1,336 | 840 | 8,724 | 3.2% | 3.49 |
| Ventura | Simi Valley | 125,509 | 124,849 | 660 | 43,200 | 31,358 | 3,377 | 2,038 | 5,666 | 761 | 41,636 | 3.6% | 3.00 |
| Ventura | Thousand Oaks | 127,495 | 125,753 | 1,742 | 48,081 | 32,502 | 5,399 | 1,928 | 7,049 | 1,203 | 46,285 | 3.7% | 2.72 |
| Ventura | Balance Of County | 95,276 | 91,426 | 3,850 | 34,863 | 27,901 | 2,274 | 962 | 1,726 | 2,000 | 31,811 | 8.8% | 2.87 |
| Ventura | Incorporated | 748,983 | 741,627 | 7,356 | 254,784 | 157,028 | 29,265 | 15,019 | 44,122 | 9,350 | 242,324 | 4.9% | 3.06 |
| Ventura | County Total | 844,259 | 833,053 | 11,206 | 289,647 | 184,929 | 31,539 | 15,981 | 45,848 | 11,350 | 274,135 | 5.4% | 3.04 |

| Table 2: E-5 City/County Population and Housing Estimates, 1/1/2022 | | | | | | | | | | | | | |
|---|------------|-----------|----------------|---------------|-----------------|-----------------|-------------|-----------|--------------|----------|--------------|-----------------------|--|
| | | | | | | | | | | | | | |
| County / City | POPULATION | | | HOUSING UNITS | | | | | | | Vacancy Rate | Persons per Household | |
| | Total | Household | Group Quarters | Total | Single Detached | Single Attached | Two to Four | Five Plus | Mobile Homes | Occupied | | | |
| Ventura County | | | | | | | | | | | | | |
| Camarillo | 69,925 | 69,333 | 592 | 28,025 | 16,116 | 5,061 | 1,116 | 4,764 | 968 | 26,924 | 3.9% | 2.58 | |
| Fillmore | 16,454 | 16,259 | 195 | 4,875 | 3,659 | 245 | 350 | 244 | 377 | 4,678 | 4.0% | 3.48 | |
| Moorpark | 35,380 | 35,380 | 0 | 11,769 | 8,571 | 1,607 | 221 | 1,230 | 140 | 11,519 | 2.1% | 3.07 | |
| Ojai | 7,568 | 7,357 | 211 | 3,509 | 2,389 | 333 | 474 | 313 | 0 | 3,219 | 8.3% | 2.29 | |
| Oxnard | 199,839 | 198,155 | 1,684 | 57,295 | 31,069 | 6,050 | 3,805 | 13,864 | 2,507 | 54,388 | 5.1% | 3.64 | |
| Port Hueneme | 21,552 | 20,782 | 770 | 8,298 | 2,682 | 2,437 | 933 | 2,237 | 9 | 7,342 | 11.5% | 2.83 | |
| San Buenaventura | 107,505 | 105,540 | 1,965 | 44,715 | 24,885 | 5,061 | 3,343 | 9,127 | 2,299 | 42,126 | 5.8% | 2.51 | |
| Santa Paula | 31,145 | 30,989 | 156 | 9,515 | 5,706 | 750 | 895 | 1,352 | 812 | 9,235 | 2.9% | 3.36 | |
| Simi Valley | 124,333 | 123,558 | 775 | 44,133 | 31,876 | 3,701 | 2,036 | 5,789 | 731 | 43,231 | 2.0% | 2.86 | |
| Thousand Oaks | 124,439 | 122,214 | 2,225 | 48,207 | 32,495 | 5,570 | 1,905 | 7,095 | 1,142 | 46,694 | 3.1% | 2.62 | |
| | | | | | | | | | | | | | |
| Balance Of County | 93,393 | 89,396 | 3,997 | 34,648 | 27,775 | 2,328 | 970 | 1,685 | 1,890 | 31,764 | 8.3% | 2.81 | |
| Incorporated | 738,140 | 729,567 | 8,573 | 260,341 | 159,448 | 30,815 | 15,078 | 46,015 | 8,985 | 249,356 | 4.2% | 2.93 | |
| | | | | | | | | | | | | | |
| County Total | 831,533 | 818,963 | 12,570 | 294,989 | 187,223 | 33,143 | 16,048 | 47,700 | 10,875 | 281,120 | 4.7% | 2.91 | |
| | | | | | | | | | | | | | |

| COUNTY OF VENTURA 2022 | | |
|---------------------------|----------------|---------------|
| Category | # of Customers | Annual Therms |
| Commercial | 10,382 | 49,198,366 |
| Industrial | 992 | 22,934,733 |
| Single-Family Residential | 197,089 | 78,818,447 |
| Multi-Family Residential | 70,680 | 22,912,122 |
| Totals | 279,143 | 173,863,668 |

PARAMETERS:
Request ID 'SCE12311793228'
Requestor 'County of Ventura'
Billing Period Between '2022-01-01' through '2022-12-31'

| | | Total Usage (KWH) by Rate Category |
|--------------------|------------------|------------------------------------|
| County | Rate of Category | 2022 |
| VENTURA, COUNTY OF | Agricultural | 311,154,994 |
| VENTURA, COUNTY OF | Commercial | 1,680,884,816 |
| VENTURA, COUNTY OF | Industrial | 1,089,730,232 |
| VENTURA, COUNTY OF | Residential | 1,745,955,543 |

Hi Victor,

To answer your first question, the report we provided contains the combination of all service types, including CPA, DA, and SCE. Below is an estimated percentage breakdown by Service Type. Let me know if this works for you and/or if you have any other questions.

| COUNTY | SERVICE TYPE | PERCENTAGE |
|--------------------|--------------|------------|
| VENTURA, COUNTY OF | CPA | 57% |
| VENTURA, COUNTY OF | DA | 14% |
| VENTURA, COUNTY OF | SCE | 29% |

| Agriculture | |
|-------------|-----|
| CPA | 46% |
| DA | 0% |
| SCE | 54% |
| Commercial | |
| CPA | 62% |
| DA | 18% |
| SCE | 19% |
| Industrial | |
| CPA | 19% |
| DA | 32% |
| SCE | 49% |
| Residential | |
| CPA | 82% |
| DA | 0% |
| SCE | 18% |

CPA 2022 Usage - Ventura County, All Jurisdictions (kWh)

| Customer Class Code | 100% GREEN POWER | CLEAN POWER | LEAN POWER | Total | | G | 1,443,531,307 |
|-----------------------------------|------------------|-------------|-------------|---------------|--|---|---------------|
| AGR | 102,382,104 | 1,217,303 | 39,450,570 | 143,049,977 | | C | 126,836,663 |
| COMM | 614,254,073 | 48,738,708 | 333,865,805 | 996,858,586 | | L | 779,016,534 |
| IND | 115,629,080 | 14,385,068 | 87,396,370 | 217,410,518 | | | |
| RES | 829,277,235 | 78,097,955 | 445,150,729 | 1,352,525,918 | | | |
| Total | 1,661,542,491 | 142,439,034 | 905,863,475 | 2,709,845,000 | | | |
| Emission intensity (lbs CO2e/MWh) | 0 | 490 | 566 | | | | |
| Emissions (lbs CO2e) | 0 | 69,795,127 | 512,718,727 | 582,513,853 | | | |

Single-year Countywide Origin Detail

County of: Ventura Year: 2019

| Origin Jurisdiction | Qtr | Disposal Ton | Export Ton | Transform Ton | Total AIC | Total ADC |
|----------------------------------|-----|-----------------|------------|---------------|-----------|-----------|
| Camarillo | | 63,234 | | 45 | | 2,702 |
| | 1 | 15,903 | | 8 | | 1,518 |
| | 2 | 16,209 | | 10 | | 1,080 |
| | 3 | 15,283 | | 16 | | 84 |
| | 4 | 15,840 | | 12 | | 20 |
| Fillmore | | 11,713 | | | | 155 |
| | 1 | 2,460 | | | | 66 |
| | 2 | 2,520 | | | | 40 |
| | 3 | 4,092 | | | | 8 |
| | 4 | 2,642 | | | | 41 |
| Moorpark | | 27,895 | | | | 7,564 |
| | 1 | 6,287 | | | | 2,191 |
| | 2 | 7,329 | | | | 2,523 |
| | 3 | 7,035 | | | | 1,498 |
| | 4 | 7,244 | | | | 1,352 |
| Ojai | | 11,861 | | | | 8 |
| | 1 | 2,799 | | | | |
| | 2 | 3,146 | | | | |
| | 3 | 2,821 | | | | |
| | 4 | 3,095 | | | | 8 |
| Oxnard | | 352,819 | | 319 | | 3,143 |
| | 1 | 79,444 | | 139 | | 1,244 |
| | 2 | 84,394 | | 67 | | 685 |
| | 3 | 100,086 | | 66 | | 501 |
| | 4 | 88,895 | | 47 | | 714 |
| Port Hueneme | | 13,862 | | | | 196 |
| | 1 | 3,689 | | | | 178 |
| | 2 | 4,321 | | | | 3 |
| | 3 | 520 | | | | 15 |
| | 4 | 5,332 | | | | |
| San Buenaventura | | 120,194 | | | | 4,060 |
| | 1 | 30,679 | | | | 1,538 |
| | 2 | 30,749 | | | | 2,032 |
| | 3 | 30,292 | | | | 80 |
| | 4 | 28,475 | | | | 410 |
| Santa Paula | | 28,060 | | | | 6 |
| | 1 | 7,102 | | | | |
| | 2 | 6,899 | | | | 5 |
| | 3 | 7,679 | | | | |
| | 4 | 6,380 | | | | |
| Simi Valley | | 106,229 | | | | 32,064 |
| | 1 | 26,066 | | | | 10,043 |
| | 2 | 27,531 | | | | 10,379 |
| | 3 | 25,121 | | | | 5,732 |
| | 4 | 27,511 | | | | 5,910 |
| Thousand Oaks | | 109,131 | | 4 | | 33,243 |
| | 1 | 27,378 | | | | 9,447 |
| | 2 | 27,735 | | | | 10,358 |
| | 3 | 26,335 | | 4 | | 6,768 |
| | 4 | 27,684 | | | | 6,670 |
| Ventura-Unincorporated | | 158,051 | | | | 23,054 |
| | 1 | 48,444 | | | | 7,190 |
| | 2 | 42,965 | | | | 8,000 |
| | 3 | 34,246 | | | | 4,161 |
| | 4 | 32,396 | | | | 3,702 |
| Grand Totals: (11 Jurisdictions) | | 1,003,051 | | 368 | | 106,194 |

Note: Origin means the jurisdiction where the waste was produced. ADC means CalRecycle-approved materials other than soil used as a temporary overlay on an exposed landfill face.

DRS web reports are based upon information reported by permitted facility operators and compiled by County/Regional Agency disposal reporting coordinators. The data is checked for accuracy then released in yearly increments. Only finalized data are shown in these reports.

VCTM Profile supplemented with SBCAG Externals, provided by Andrew Kent at Ventura County Transportation Comission (VCTC)

Notes: according to Andrew during previous call, VCTM "auto" includes passenger VMT , and "trucks" include commercial and bus VMT; andrew sent over 2023 data but resent 2022 data which is copied over original table in email

Good morning,

See below for summary table of VMT estimate for Ventura County from VCTM with the externals from SBCAG added as discussed. The interpolated estimate for 2023 from VCTM uses the 2016 baseline and updated 2040 forecast using latest SCAG demographic projections. These figures were pulled from the SB357 VMT report from the model. The breakdown of Autos vs Truck VMT for the SBCAG is based on a rough approximation of trip mode split.

Let me know if you would like to discuss

| Year | Source | Auto VMT | Truck VMT | Total |
|------|---|------------|-----------|------------|
| 2016 | VCTM Baseline | 16,362,213 | 1,500,939 | 17,863,152 |
| 2040 | CTPLU_VCTM_40BL_V3 | 15,566,869 | 2,159,398 | 17,726,267 |
| | | | | |
| 2022 | Interpolated VCTM 2016&2040 | 16,163,377 | 1,665,554 | 17,828,931 |
| 2022 | Adj. Est. from SBCAG Externals (10% Est Commercial Truck) | 1,424,824 | 161,211 | 1,585,889 |
| | | | | |
| | Total | 17,588,201 | 1,826,764 | 19,414,820 |

Andrew Kent, PTP
Program Manager – Transportation Data & Services
Ventura County Transportation Commission

| | | | |
|-------|------------|-----------|------------|
| 2022 | Auto VMT | Truck VMT | Total VMT |
| Total | 17,588,201 | 1,826,764 | 19,414,820 |

| Region | Calendar.Year | Vehicle.Designation | CVMT | EVMT | VMT | Energy.Consumption | EV.Share | EPM | EF | CEF | CTPM |
|---------|---------------|---------------------|---------------|-------------|---------------|--------------------|----------|----------|----------|----------|----------|
| Ventura | 2022 | Passenger | 6,285,159,639 | 193,765,501 | 6,478,925,140 | 70,687,676 | 2.99% | 0.364810 | 0.000339 | 0.000350 | 0.120833 |
| Ventura | 2022 | Commercial | 480,031,015 | - | 480,031,015 | - | 0.00% | - | 0.000999 | 0.000999 | NA |
| Ventura | 2022 | Buses | 17,443,766 | 4,855 | 17,448,621 | 9,802 | 0.03% | 2.018770 | 0.001586 | 0.001587 | NA |

Output from the California Air Resources Board's (CARB) 2021 EMission FACtor (EMFAC) model version 1.0.1 was used to facilitate analysis of VMT data (accessed at: <https://arb.ca.gov/emfac/emissions-inventory/d7e33b22a7ef163d2dc9fd91182391d41cb025f9>). EMFAC2021 is the primary data source for estimating project- and plan-level mobile source emissions in California. County-specific emissions factors, in units of MT CO2e/mile, for buses, passenger, and commercial vehicles were calculated based on EMFAC2021 model output for the years [INPUT YEARS USED]. Percent electric vehicle (EV) share and electricity used per EV-mile were also calculated at the county level for each year based on EMFAC2021 model output to quantify EV mileage and EV electricity usage for [INPUT JURISDICTION] based on the VMT data. Each variable calculated from EMFAC2021 output was aggregated over the all vehicle categories (i.e., LDA, LDT1, LDT2, MCY, MDV, MH for passenger vehicles; LHDT1, LHDT2, HHDT, MHDT for commercial vehicles; OBUS, SBUS, UBUS for buses) and fuel types (i.e., gasoline, diesel, natural gas, electric vehicle, and plug-in) using a VMT-weighted average.

Data source - EMFAC2021

<https://arb.ca.gov/emfac/emissions-inventory/d7e33b22a7ef163d2dc9fd91182391d41cb025f9>

Output: Onroad Emissions

Model Version: EMFAC2021 v1.0.1

Region Type: County

Region: all counties

Calendar Year: all year0.000387788

Season: Annual

Vehicle Category: EMFAC2007

Model Year: Aggregate

Fuel: all fuels

Output Unit: tons/year

Data analysis

Raw EMFAC2021 data was the input for the analysis.

EMFAC2021 data was aggregated separately for every

county and calendar year for passenger vehicles (LDA,

| Variable Name | Variable Description | Calculation | Unit |
|--------------------|--|---------------------------------------|-----------------|
| CVMT | combustion VMT (from gas) | sum(CVMT) | miles per year |
| EVMT | electric VMT (from EV and plug-in) | sum(EVMT) | miles per year |
| VMT | Total VMT (EVMT + CVMT) | sum(Total.VMT) | miles per year |
| Energy.Consumption | Electricity consumption from all sources | sum(Energy.Consumption) | kWh per year |
| EV.Share | Baseline EV/plugin penetration | sum(EVMT)/sum(Total.VMT) | % EV |
| EPM | Electricity used per mile travelled | sum(Energy.Consumption)/sum(VMT) | kWh per EV-mile |
| EF | Emissions per mile travelled | sum(CO2.TOTEX + CH4.TOT MT CO2e/mile) | |
| CEF | | sum(CO2.TOTEX + CH4.TOT MT CO2e/mile) | |
| CTPM | Trips per mile travelled in a year | sum(Trips)/sum(CVMT) | Trips/mile |

| Region | Calendar.Year | Vehicle.Designation | CVMT | EVMT | VMT | Energy.Consumption | EV.Share | EPM | EF | CEF | CTPM |
|---------|---------------|---------------------|---------------|-------------|---------------|--------------------|----------|----------|----|----------|-------------------|
| Ventura | 2025 | Passenger | 6,276,617,689 | 344,013,241 | 6,620,630,930 | 126,471,996 | 5.20% | 0.367637 | | 0.000314 | 0.000331 0.116821 |
| Ventura | 2025 | Commercial | 482,822,494 | 3,943,480 | 486,765,975 | 3,493,494 | 0.81% | 0.885891 | | 0.000961 | 0.000969 NA |
| Ventura | 2025 | Buses | 17,098,361 | 54,061 | 17,152,422 | 63,987 | 0.32% | 1.183606 | | 0.001537 | 0.001542 NA |
| Ventura | 2026 | Passenger | 6,244,277,238 | 378,748,779 | 6,623,026,017 | 139,314,242 | 5.72% | 0.367828 | | 0.000306 | 0.000325 0.116336 |
| Ventura | 2026 | Commercial | 480,726,589 | 7,135,602 | 487,862,191 | 6,258,251 | 1.46% | 0.877046 | | 0.000946 | 0.000961 NA |
| Ventura | 2026 | Buses | 16,987,682 | 83,828 | 17,071,509 | 94,106 | 0.49% | 1.122611 | | 0.001506 | 0.001514 NA |
| Ventura | 2027 | Passenger | 6,224,417,998 | 412,319,287 | 6,636,737,286 | 151,733,926 | 6.21% | 0.368001 | | 0.000299 | 0.000319 0.115701 |
| Ventura | 2027 | Commercial | 477,283,814 | 11,812,655 | 489,096,470 | 10,313,519 | 2.42% | 0.873091 | | 0.000930 | 0.000953 NA |
| Ventura | 2027 | Buses | 16,838,278 | 143,101 | 16,981,379 | 169,528 | 0.84% | 1.184676 | | 0.001496 | 0.001509 NA |
| Ventura | 2028 | Passenger | 6,204,289,409 | 444,408,633 | 6,648,698,042 | 163,624,241 | 6.68% | 0.368184 | | 0.000293 | 0.000314 0.115158 |
| Ventura | 2028 | Commercial | 472,256,303 | 18,249,920 | 490,506,224 | 15,965,277 | 3.72% | 0.874814 | | 0.000910 | 0.000945 NA |
| Ventura | 2028 | Buses | 16,644,691 | 258,115 | 16,902,805 | 334,843 | 1.53% | 1.297263 | | 0.001480 | 0.001503 NA |
| Ventura | 2029 | Passenger | 6,183,538,434 | 475,244,303 | 6,658,782,737 | 175,070,082 | 7.14% | 0.368379 | | 0.000287 | 0.000309 0.114676 |
| Ventura | 2029 | Commercial | 465,715,168 | 26,406,037 | 492,121,206 | 23,208,939 | 5.37% | 0.878925 | | 0.000888 | 0.000938 NA |
| Ventura | 2029 | Buses | 15,853,378 | 981,935 | 16,835,313 | 1,707,811 | 5.83% | 1.739231 | | 0.001451 | 0.001541 NA |
| Ventura | 2030 | Passenger | 6,161,392,480 | 505,104,803 | 6,666,497,283 | 186,179,797 | 7.58% | 0.368596 | | 0.000282 | 0.000305 0.114278 |
| Ventura | 2030 | Commercial | 457,694,881 | 36,159,274 | 493,854,155 | 31,934,321 | 7.32% | 0.883157 | | 0.000864 | 0.000932 NA |
| Ventura | 2030 | Buses | 15,226,432 | 1,542,110 | 16,768,543 | 2,727,042 | 9.20% | 1.768383 | | 0.001374 | 0.001513 NA |
| Ventura | 2031 | Passenger | 6,139,581,876 | 532,287,723 | 6,671,869,599 | 196,301,658 | 7.98% | 0.368789 | | 0.000277 | 0.000301 0.113928 |
| Ventura | 2031 | Commercial | 449,904,457 | 47,361,263 | 497,265,720 | 41,985,011 | 9.52% | 0.886484 | | 0.000839 | 0.000928 NA |
| Ventura | 2031 | Buses | 14,711,617 | 2,001,067 | 16,712,684 | 3,528,875 | 11.97% | 1.763496 | | 0.001313 | 0.001491 NA |
| Ventura | 2032 | Passenger | 6,118,926,956 | 556,647,808 | 6,675,574,765 | 205,377,445 | 8.34% | 0.368954 | | 0.000273 | 0.000298 0.113615 |
| Ventura | 2032 | Commercial | 441,300,895 | 59,607,228 | 500,908,123 | 52,951,016 | 11.90% | 0.888332 | | 0.000815 | 0.000925 NA |
| Ventura | 2032 | Buses | 14,407,416 | 2,271,756 | 16,679,172 | 3,941,762 | 13.62% | 1.735117 | | 0.001283 | 0.001486 NA |
| Ventura | 2033 | Passenger | 6,098,561,589 | 578,162,487 | 6,676,724,076 | 213,396,590 | 8.66% | 0.369094 | | 0.000269 | 0.000294 0.113363 |
| Ventura | 2033 | Commercial | 431,937,777 | 72,685,917 | 504,623,693 | 64,502,920 | 14.40% | 0.887420 | | 0.000789 | 0.000921 NA |
| Ventura | 2033 | Buses | 14,105,832 | 2,542,301 | 16,648,133 | 4,347,426 | 15.27% | 1.710036 | | 0.001256 | 0.001483 NA |
| Ventura | 2034 | Passenger | 6,079,377,688 | 597,119,518 | 6,676,497,205 | 220,465,384 | 8.94% | 0.369215 | | 0.000265 | 0.000291 0.113141 |
| Ventura | 2034 | Commercial | 421,889,374 | 86,499,396 | 508,388,770 | 76,547,654 | 17.01% | 0.884950 | | 0.000764 | 0.000921 NA |
| Ventura | 2034 | Buses | 13,899,150 | 2,721,982 | 16,621,133 | 4,561,639 | 16.38% | 1.675874 | | 0.001238 | 0.001480 NA |
| Ventura | 2035 | Passenger | 6,061,624,238 | 613,634,603 | 6,675,258,841 | 226,626,447 | 9.19% | 0.369318 | | 0.000262 | 0.000289 0.112948 |
| Ventura | 2035 | Commercial | 411,193,043 | 100,964,848 | 512,157,891 | 89,036,415 | 19.71% | 0.881856 | | 0.000740 | 0.000922 NA |
| Ventura | 2035 | Buses | 13,627,756 | 2,959,150 | 16,586,906 | 4,886,407 | 17.84% | 1.651287 | | 0.001212 | 0.001475 NA |
| Ventura | 2036 | Passenger | 6,043,767,193 | 627,717,933 | 6,671,485,126 | 231,883,139 | 9.41% | 0.369407 | | 0.000260 | 0.000287 0.112816 |
| Ventura | 2036 | Commercial | 401,094,643 | 114,670,217 | 515,764,859 | 100,868,108 | 22.23% | 0.879637 | | 0.000718 | 0.000923 NA |
| Ventura | 2036 | Buses | 12,059,782 | 4,799,981 | 16,859,763 | 8,458,212 | 28.47% | 1.762134 | | 0.001016 | 0.001420 NA |
| Ventura | 2037 | Passenger | 6,026,004,996 | 639,536,115 | 6,665,541,112 | 236,297,209 | 9.59% | 0.369482 | | 0.000258 | 0.000285 0.112754 |
| Ventura | 2037 | Commercial | 391,892,805 | 127,370,593 | 519,263,398 | 111,962,040 | 24.53% | 0.879026 | | 0.000698 | 0.000925 NA |
| Ventura | 2037 | Buses | 11,369,353 | 5,762,977 | 17,132,329 | 10,262,115 | 33.64% | 1.780697 | | 0.000947 | 0.001427 NA |
| Ventura | 2038 | Passenger | 6,008,086,234 | 649,289,795 | 6,657,376,029 | 239,942,900 | 9.75% | 0.369547 | | 0.000257 | 0.000284 0.112749 |
| Ventura | 2038 | Commercial | 383,532,727 | 139,179,576 | 522,712,303 | 123,261,409 | 26.63% | 0.885629 | | 0.000685 | 0.000933 NA |
| Ventura | 2038 | Buses | 10,606,137 | 6,781,862 | 17,387,999 | 12,183,542 | 39.00% | 1.796489 | | 0.000864 | 0.001416 NA |
| Ventura | 2039 | Passenger | 5,990,128,913 | 657,196,995 | 6,647,325,908 | 242,901,609 | 9.89% | 0.369602 | | 0.000255 | 0.000283 0.112783 |
| Ventura | 2039 | Commercial | 376,078,117 | 150,189,530 | 526,267,646 | 133,140,808 | 28.54% | 0.886485 | | 0.000669 | 0.000936 NA |
| Ventura | 2039 | Buses | 10,022,170 | 7,635,337 | 17,657,507 | 13,772,879 | 43.24% | 1.803834 | | 0.000797 | 0.001403 NA |
| Ventura | 2040 | Passenger | 5,971,397,471 | 663,387,655 | 6,634,785,126 | 245,221,086 | 10.00% | 0.369650 | | 0.000254 | 0.000282 0.112868 |
| Ventura | 2040 | Commercial | 369,304,790 | 160,478,333 | 529,783,122 | 142,471,438 | 30.29% | 0.887792 | | 0.000655 | 0.000940 NA |
| Ventura | 2040 | Buses | 9,449,120 | 8,502,360 | 17,951,480 | 15,392,782 | 47.36% | 1.810413 | | 0.000719 | 0.001366 NA |
| Ventura | 2041 | Passenger | 5,951,670,202 | 668,069,074 | 6,619,739,276 | 246,978,767 | 10.09% | 0.369690 | | 0.000252 | 0.000281 0.113008 |
| Ventura | 2041 | Commercial | 363,301,797 | 170,095,662 | 533,397,459 | 151,290,147 | 31.89% | 0.889442 | | 0.000643 | 0.000944 NA |
| Ventura | 2041 | Buses | 9,202,717 | 9,047,223 | 18,249,939 | 16,364,405 | 49.57% | 1.808777 | | 0.000685 | 0.001359 NA |
| Ventura | 2042 | Passenger | 5,931,731,267 | 671,593,709 | 6,603,324,976 | 248,305,017 | 10.17% | 0.369725 | | 0.000251 | 0.000280 0.113150 |
| Ventura | 2042 | Commercial | 357,981,869 | 179,073,466 | 537,055,335 | 159,592,743 | 33.34% | 0.891214 | | 0.000632 | 0.000948 NA |
| Ventura | 2042 | Buses | 9,056,350 | 9,489,808 | 18,546,158 | 17,134,272 | 51.17% | 1.805545 | | 0.000661 | 0.001354 NA |
| Ventura | 2043 | Passenger | 5,910,895,316 | 674,027,072 | 6,584,922,388 | 249,224,165 | 10.24% | 0.369754 | | 0.000251 | 0.000279 0.113313 |
| Ventura | 2043 | Commercial | 353,651,041 | 187,353,795 | 541,004,835 | 167,305,100 | 34.63% | 0.892990 | | 0.000623 | 0.000953 NA |
| Ventura | 2043 | Buses | 8,848,070 | 9,982,702 | 18,830,772 | 18,011,522 | 53.01% | 1.804273 | | 0.000631 | 0.001343 NA |
| Ventura | 2044 | Passenger | 5,887,270,246 | 675,343,524 | 6,562,613,770 | 249,727,091 | 10.29% | 0.369778 | | 0.000250 | 0.000279 0.113518 |
| Ventura | 2044 | Commercial | 349,720,502 | 194,969,701 | 544,690,203 | 174,491,360 | 35.79% | 0.894967 | | 0.000615 | 0.000958 NA |
| Ventura | 2044 | Buses | 7,066,525 | 12,035,622 | 19,102,146 | 22,049,683 | 63.01% | 1.832035 | | 0.000412 | 0.001115 NA |
| Ventura | 2045 | Passenger | 5,862,641,843 | 675,890,984 | 6,538,532,826 | 249,942,741 | 10.34% | 0.369797 | | 0.000249 | 0.000278 0.113719 |
| Ventura | 2045 | Commercial | 346,507,969 | 201,930,215 | 548,438,183 | 181,122,685 | 36.82% | 0.896957 | | 0.000609 | 0.000963 NA |
| Ventura | 2045 | Buses | 6,933,330 | 12,449,397 | 19,382,727 | 22,780,430 | 64.23% | 1.829842 | | 0.000396 | 0.001107 NA |
| Ventura | 2046 | Passenger | 5,837,204,198 | 675,771,242 | 6,512,975,440 | 249,909,199 | 10.38% | 0.369813 | | 0.000249 | 0.000278 0.113925 |
| Ventura | 2046 | Commercial | 344,001,631 | 208,300,483 | 552,302,114 | 187,271,599 | 37.71% | 0.899045 | | 0.000603 | 0.000969 NA |
| Ventura | 2046 | Buses | 6,801,124 | 12,855,369 | 19,656,493 | 23,502,519 | 65.40% | 1.828226 | | 0.000380 | 0.001099 NA |
| Ventura | 2047 | Passenger | 5,809,733,907 | 674,948,863 | 6,484,682,770 | 249,613,646 | 10.41% | 0.369826 | | 0.000248 | 0.000277 0.114153 |
| Ventura | 2047 | Commercial | 342,036,338 | 214,083,203 | 556,119,541 | 192,942,180 | 38.50% | 0.901249 | | 0.000599 | 0.000975 NA |
| Ventura | 2047 | Buses | 6,644,632 | 13,257,258 | 19,901,890 | 24,220,230 | 66.61% | 1.826941 | | 0.000365 | 0.001092 NA |
| Ventura | 2048 | Passenger | 5,782,544,888 | 673,771,169 | 6,456,316,057 | 249,184,853 | 10.44% | 0.369836 | | 0.000248 | 0.000277 0.114353 |
| Ventura | 2048 | Commercial | 340,571,934 | 219,386,793 | 559,958,727 | 198,232,567 | 39.18% | 0.903576 | | 0.000596 | 0.000981 NA |
| Ventura | 2048 | Buses | 6,450,057 | 13,656,199 | 20,106,256 | 24,934,798 | 67.92% | 1.825896 | | 0.000348 | 0.001086 NA |
| Ventura | 2049 | Passenger | 5,753,319,511 | 672,005,035 | 6,425,324,547 | 248,536,907 | 10.46% | 0.369844 | | 0.000248 | 0.000277 0.114592 |
| Ventura | 2049 | Commercial | 339,669,693 | 224,188,619 | 563,858,313 | 203,139,268 | 39.76% | 0.906109 | | 0.000594 | 0.000987 NA |
| Ventura | 2049 | Buses | 6,221,294 | 14,051,209 | 20,272,504 | 25,645,093 | 69.31% | 1.825116 | | 0.000332 | 0.001081 NA |
| Ventura | 2050 | Passenger | 5,724,826,406 | 670,013,110 | 6,394,839,516 | 247,804,134 | 10.48% | 0.369850 | | 0.000248 | 0.000277 0.114807 |
| Ventura | 2050 | Commercial | 339,351,727 | 228,600,589 | 567,952,316 | 207,751,725 | 40.25% | 0.908798 | | 0.000593 | 0.000993 NA |
| Ventura | 2050 | Buses | 6,022,512 | 14,443,322 | 20,465,834 | 26,352,227 | 70.57% | 1.824527 | | 0.000316 | 0.001075 NA |

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

| | Calendar Yr | Vehicle Category | Helper Column | Model # | Horsepower | Fuel | HC_tpd | ROG_tpd | TOG_tpd | CO_tpd | NOx_tpd | CO2_tpd | PM10_tpd | PM2.5_tpd | SOx_tpd | NH3_tpd | Fuel Consumpt | Total_Activity | Total_Popu | Horsepower_Hours_hhpy |
|---------|-------------|---------------------------------|---------------|-----------|------------|----------|--------|---------|---------|--------|---------|---------|----------|-----------|---------|---------|---------------|----------------|------------|-----------------------|
| Ventura | 2022.00 | Agricultural - Agricultural Tr. | Agricultural | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 373.89 | 2264.95 | 1.65 | 9978.10 |
| Ventura | 2022.00 | Agricultural - Agricultural Tr. | Agricultural | Aggregate | Aggregate | Diesel | 0.15 | 0.18 | 0.21 | 0.85 | 1.00 | 13870.0 | 0.06 | 0.06 | 0.00 | 0.00 | 4511384.36 | 298563.19 | 2627.03 | 168812683.71 |
| Ventura | 2022.00 | Agricultural - ATVs | Agricultural | Aggregate | Aggregate | Gasoline | 0.03 | 0.04 | 0.04 | 0.41 | 0.02 | 4.57 | 0.00 | 0.00 | 0.00 | 0.00 | 148080.25 | 15667.25 | 428.64 | 4742239.58 |
| Ventura | 2022.00 | Agricultural - ATVs | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 2.29 | 0.00 | 0.00 | 0.00 | 0.00 | 74396.77 | 25969.13 | 160.76 | 3194484.10 |
| Ventura | 2022.00 | Agricultural - Bale Wagons (r | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 13593.30 | 9042.18 | 3.86 | 518545.43 |
| Ventura | 2022.00 | Agricultural - Balers (Self Pro | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 298.89 | 271.04 | 0.17 | 10256.13 |
| Ventura | 2022.00 | Agricultural - Combine Harv | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 2.69 | 0.00 | 0.00 | 0.00 | 0.00 | 87465.95 | 19219.71 | 12.40 | 3759689.24 |
| Ventura | 2022.00 | Agricultural - Construction E | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 3.87 | 0.00 | 0.00 | 0.00 | 0.00 | 125753.82 | 29021.39 | 75.97 | 870002.22 |
| Ventura | 2022.00 | Agricultural - Cotton Pickers | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 | 3262.36 | 2217.72 | 0.45 | 140231.04 |
| Ventura | 2022.00 | Agricultural - Forage & Silagi | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.69 | 0.00 | 0.00 | 0.00 | 0.00 | 22358.94 | 5322.15 | 1.57 | 961090.06 |
| Ventura | 2022.00 | Agricultural - Forklifts | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 3.21 | 0.00 | 0.00 | 0.00 | 0.00 | 104511.65 | 55475.33 | 85.96 | 4507182.17 |
| Ventura | 2022.00 | Agricultural - Hay Squeeze/S | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.31 | 0.00 | 0.00 | 0.00 | 0.00 | 10007.18 | 7471.43 | 2.77 | 453881.69 |
| Ventura | 2022.00 | Agricultural - Nut Harvester | Agricultural | Aggregate | Aggregate | Diesel | 0.01 | 0.01 | 0.01 | 0.04 | 0.05 | 6.47 | 0.00 | 0.00 | 0.00 | 0.00 | 210536.94 | 67082.88 | 118.24 | 8487619.36 |
| Ventura | 2022.00 | Agricultural - Other Harvest | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 3.35 | 0.00 | 0.00 | 0.00 | 0.00 | 108929.90 | 46900.80 | 44.55 | 4479378.33 |
| Ventura | 2022.00 | Agricultural - Sprayers/Spr | Agricultural | Aggregate | Aggregate | Diesel | 0.01 | 0.01 | 0.02 | 0.07 | 0.10 | 11.66 | 0.01 | 0.01 | 0.00 | 0.00 | 379375.90 | 56033.87 | 267.58 | 16001488.41 |
| Ventura | 2022.00 | Agricultural - Swathers/Win | Agricultural | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.14 | 0.00 | 0.00 | 0.00 | 0.00 | 36975.93 | 14057.27 | 18.02 | 1351271.01 |
| Ventura | 2022.00 | Airport Ground Support - A/ | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 498.26 | 158.80 | 0.28 | 9503.53 |
| Ventura | 2022.00 | Airport Ground Support - A/ | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 514.41 | 79.52 | 0.12 | 10176.23 |
| Ventura | 2022.00 | Airport Ground Support - Ai | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.87 | 2.22 | 0.00 | 51.18 |
| Ventura | 2022.00 | Airport Ground Support - Ba | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 233.54 | 162.46 | 0.35 | 4178.40 |
| Ventura | 2022.00 | Airport Ground Support - Be | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 138.85 | 122.75 | 0.27 | 2486.73 |
| Ventura | 2022.00 | Airport Ground Support - Bo | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 40.72 | 7.23 | 0.01 | 803.39 |
| Ventura | 2022.00 | Airport Ground Support - Ca | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 395.88 | 183.96 | 0.28 | 7699.27 |
| Ventura | 2022.00 | Airport Ground Support - Ca | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 174.56 | 135.55 | 0.29 | 3187.25 |
| Ventura | 2022.00 | Airport Ground Support - Fo | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 174.49 | 155.45 | 0.26 | 3336.34 |
| Ventura | 2022.00 | Airport Ground Support - Fu | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.31 | 1.54 | 0.00 | 144.97 |
| Ventura | 2022.00 | Airport Ground Support - Ge | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.32 | 0.50 | 0.00 | 25.84 |
| Ventura | 2022.00 | Airport Ground Support - Lif | Airport | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 114.44 | 79.58 | 0.17 | 2122.35 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 357.70 | 40.15 | 0.01 | 5219.50 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 306.60 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 18.25 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 3160.90 | 605.90 | 0.69 | 60590.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 704.45 | 113.15 | 0.15 | 11315.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 751.90 | 270.10 | 0.32 | 16206.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.05 | 3.65 | 0.00 | 219.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 507.35 | 98.55 | 0.10 | 9855.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.90 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 208.05 | 62.05 | 0.08 | 4343.50 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.05 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 3785.05 | 726.35 | 0.53 | 69003.25 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 69.35 | 0.00 | 0.01 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.33 | 0.00 | 0.03 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 569.40 | 62.05 | 0.01 | 12651.99 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.05 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.55 | 54.75 | 0.07 | 2737.50 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 229.95 | 142.35 | 0.19 | 7117.50 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.60 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 532.90 | 47.45 | 0.05 | 7117.50 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 602.25 | 62.05 | 0.01 | 7539.08 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 292.00 | 94.90 | 0.09 | 12337.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 255.50 | 62.05 | 0.17 | 6205.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 266.45 | 47.45 | 0.12 | 6168.50 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.05 | 7.30 | 0.17 | 365.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 62.05 | 10.95 | 0.00 | 547.50 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 73.00 | 0.00 | 0.01 | 0.00 |
| Ventura | 2022.00 | Airport Ground Support - Mi | Airport | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 0.0 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | |
|---------|---------|--|-----------|-----------|----------|------|------|------|------|------|-------|------|------|------|------------|-----------|----------|-------------|
| Ventura | 2022.00 | Construction and Mining - N Construction | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1508.06 | 0.00 | 83.61 | 0.00 |
| Ventura | 2022.00 | Construction and Mining - N Construction | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 5383.75 | 1839.60 | 2.49 | 115894.80 |
| Ventura | 2022.00 | Construction and Mining - N Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 67.78 | 0.00 | 9.25 | 0.00 |
| Ventura | 2022.00 | Construction and Mining - N Construction | Aggregate | Aggregate | Gasoline | 0.01 | 0.01 | 0.01 | 0.19 | 0.00 | 0.35 | 0.00 | 0.00 | 0.00 | 25217.58 | 5850.95 | 57.62 | 227957.10 |
| Ventura | 2022.00 | Construction and Mining - N Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 91.17 | 0.00 | 14.42 | 0.00 |
| Ventura | 2022.00 | Construction and Mining - N Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.23 | 11.69 | 0.02 | 420.95 |
| Ventura | 2022.00 | Construction and Mining - O Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 4.51 | 0.00 | 0.00 | 0.00 | 146541.34 | 43516.22 | 57.33 | 2855639.03 |
| Ventura | 2022.00 | Construction and Mining - O Construction | Aggregate | Aggregate | Diesel | 0.01 | 0.01 | 0.01 | 0.03 | 0.06 | 10.72 | 0.00 | 0.00 | 0.00 | 348380.00 | 39289.14 | 51.07 | 6904127.62 |
| Ventura | 2022.00 | Construction and Mining - O Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 5.10 | 0.00 | 0.00 | 0.00 | 165870.69 | 38143.70 | 103.18 | 3245077.49 |
| Ventura | 2022.00 | Construction and Mining - O Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.60 | 0.00 | 0.00 | 0.00 | 51862.26 | 12171.88 | 26.90 | 1018725.59 |
| Ventura | 2022.00 | Construction and Mining - P Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.62 | 0.00 | 0.00 | 0.00 | 52582.40 | 16179.34 | 33.32 | 1022559.51 |
| Ventura | 2022.00 | Construction and Mining - P Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.80 | 0.00 | 0.00 | 0.00 | 58544.10 | 18379.79 | 34.71 | 1147814.61 |
| Ventura | 2022.00 | Construction and Mining - R Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 4.22 | 0.00 | 0.00 | 0.00 | 137280.78 | 73793.69 | 168.20 | 2636808.20 |
| Ventura | 2022.00 | Construction and Mining - R Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.03 | 0.02 | 5.31 | 0.00 | 0.00 | 0.00 | 172470.73 | 79005.04 | 191.89 | 3325309.64 |
| Ventura | 2022.00 | Construction and Mining - R Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.96 | 0.00 | 0.00 | 0.00 | 31049.30 | 5400.93 | 10.43 | 612751.84 |
| Ventura | 2022.00 | Construction and Mining - R Construction | Aggregate | Aggregate | Diesel | 0.01 | 0.01 | 0.01 | 0.07 | 0.09 | 18.37 | 0.00 | 0.00 | 0.00 | 596909.83 | 151021.34 | 220.41 | 11778506.69 |
| Ventura | 2022.00 | Construction and Mining - Si Construction | Aggregate | Aggregate | Diesel | 0.01 | 0.01 | 0.01 | 0.08 | 0.10 | 9.44 | 0.01 | 0.01 | 0.00 | 306848.52 | 33223.77 | 110.18 | 6081177.33 |
| Ventura | 2022.00 | Construction and Mining - Si Construction | Aggregate | Aggregate | Diesel | 0.01 | 0.01 | 0.01 | 0.05 | 0.05 | 8.78 | 0.00 | 0.00 | 0.00 | 285397.38 | 189162.80 | 410.08 | 5160211.80 |
| Ventura | 2022.00 | Construction and Mining - Sj Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 3444.98 | 1207.38 | 2.16 | 66887.23 |
| Ventura | 2022.00 | Construction and Mining - Sj Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 428.55 | 102.03 | 0.21 | 8456.42 |
| Ventura | 2022.00 | Construction and Mining - Sj Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 | 2713.06 | 557.64 | 0.94 | 53222.18 |
| Ventura | 2022.00 | Construction and Mining - Sj Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 | 0.00 | 0.00 | 0.00 | 27770.61 | 5757.96 | 9.81 | 548489.34 |
| Ventura | 2022.00 | Construction and Mining - Ti Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 | 0.00 | 5986.46 | 1259.90 | 1.81 | 118549.32 |
| Ventura | 2022.00 | Construction and Mining - Ti Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 461.61 | 182.45 | 0.27 | 8855.88 |
| Ventura | 2022.00 | Construction and Mining - Ti Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.00 | 12043.73 | 6135.57 | 14.84 | 230933.24 |
| Ventura | 2022.00 | Construction and Mining - Ti Construction | Aggregate | Aggregate | Diesel | 0.02 | 0.02 | 0.02 | 0.14 | 0.13 | 24.44 | 0.01 | 0.01 | 0.00 | 794315.52 | 364273.22 | 707.77 | 15057066.64 |
| Ventura | 2022.00 | Construction and Mining - Ti Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.84 | 0.00 | 0.00 | 0.00 | 27227.88 | 10072.21 | 31.45 | 517928.60 |
| Ventura | 2022.00 | Construction and Mining - V Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.00 | 0.00 | 0.00 | 8898.91 | 2353.30 | 4.16 | 175314.67 |
| Ventura | 2022.00 | Construction and Mining - V Construction | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.81 | 0.00 | 0.00 | 0.00 | 26400.65 | 4034.81 | 7.05 | 522896.89 |
| Ventura | 2022.00 | Forestry - Extraction Forestry | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Forestry - Maintenance & Cc Forestry | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Forestry - Manufacturing Forestry | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ventura | 2022.00 | Industrial - Aerial Lifts Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.86 | 0.00 | 0.00 | 0.00 | 60389.24 | 53348.74 | 190.24 | 1094962.09 |
| Ventura | 2022.00 | Industrial - Boom Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.87 | 0.00 | 0.00 | 0.00 | 60683.84 | 51838.77 | 108.37 | 1089761.47 |
| Ventura | 2022.00 | Industrial - Forklifts Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.01 | 0.01 | 0.05 | 0.04 | 8.21 | 0.00 | 0.00 | 0.00 | 266930.67 | 257380.45 | 536.96 | 5060200.91 |
| Ventura | 2022.00 | Industrial - Garbage Refuse Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 | 2910.84 | 332.12 | 0.50 | 57647.66 |
| Ventura | 2022.00 | Industrial - Garbage Transfe Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 532.65 | 71.71 | 0.10 | 10559.04 |
| Ventura | 2022.00 | Industrial - Misc - Aerial Lifts Industrial | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.61 | 0.00 | 0.00 | 0.00 | 28393.24 | 11234.70 | 50.74 | 561735.00 |
| Ventura | 2022.00 | Industrial - Misc - Aerial Lifts Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 43.19 | 0.00 | 20.07 | 0.00 |
| Ventura | 2022.00 | Industrial - Misc - Forklifts Industrial | Aggregate | Aggregate | Gasoline | 0.02 | 0.02 | 0.02 | 2.20 | 0.09 | 20.04 | 0.00 | 0.00 | 0.00 | 892120.96 | 433795.20 | 240.94 | 28565243.10 |
| Ventura | 2022.00 | Industrial - Misc - Forklifts Industrial | Aggregate | Aggregate | Nat Gas | 0.00 | 0.00 | 0.00 | 1.30 | 0.14 | 32.02 | 0.00 | 0.00 | 0.00 | 1769290.05 | 795612.40 | 441.61 | 52393560.00 |
| Ventura | 2022.00 | Industrial - Misc - Other Gen Industrial | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.28 | 0.00 | 0.00 | 0.00 | 15426.80 | 4821.65 | 32.98 | 217649.50 |
| Ventura | 2022.00 | Industrial - Misc - Other Gen Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.21 | 0.00 | 4.08 | 0.00 |
| Ventura | 2022.00 | Industrial - Misc - Other Mat Industrial | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 6664.90 | 2423.60 | 6.26 | 130779.50 |
| Ventura | 2022.00 | Industrial - Misc - Sweepers, Industrial | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 1.15 | 0.00 | 0.00 | 0.00 | 50734.79 | 13742.25 | 43.98 | 689893.80 |
| Ventura | 2022.00 | Industrial - Misc - Sweepers, Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.97 | 0.00 | 1.68 | 0.00 |
| Ventura | 2022.00 | Industrial - Mower Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.02 | 0.00 | 0.00 | 0.00 | 33116.61 | 30648.28 | 59.81 | 598640.68 |
| Ventura | 2022.00 | Industrial - Other General In Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 2.47 | 0.00 | 0.00 | 0.00 | 80330.49 | 33398.67 | 76.19 | 1555648.06 |
| Ventura | 2022.00 | Industrial - Other Truck Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 1.50 | 0.00 | 0.00 | 0.00 | 48783.40 | 9066.89 | 13.24 | 963042.42 |
| Ventura | 2022.00 | Industrial - Railcars or Track Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 | 3774.80 | 1035.50 | 1.67 | 74572.90 |
| Ventura | 2022.00 | Industrial - Sweepers/Scrubl Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.48 | 0.00 | 0.00 | 0.00 | 15637.08 | 9612.57 | 33.25 | 285490.50 |
| Ventura | 2022.00 | Industrial - Tow Tractor Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 98.12 | 12.23 | 0.02 | 1945.03 |
| Ventura | 2022.00 | Industrial - Yard Goat Industrial | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 4.00 | 0.00 | 0.00 | 0.00 | 130032.40 | 37431.45 | 30.96 | 2575915.48 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Cf Lawn | Aggregate | Aggregate | Gasoline | 0.18 | 0.18 | 0.20 | 0.55 | 0.01 | 2.90 | 0.00 | 0.00 | 0.00 | 163808.79 | 0.00 | 34003.45 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Cf Lawn | Aggregate | Aggregate | Gasoline | 0.16 | 0.17 | 0.18 | 0.29 | 0.01 | 1.56 | 0.00 | 0.00 | 0.00 | 96748.18 | 0.00 | 18309.55 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Cf Lawn | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 1789.17 | 0.00 | 252.85 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Cf Lawn | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 101.26 | 0.00 | 0.24 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - La Lawn | Aggregate | Aggregate | Gasoline | 0.05 | 0.05 | 0.06 | 2.47 | 0.03 | 6.61 | 0.00 | 0.00 | 0.00 | 398707.95 | 0.00 | 82203.17 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Le Lawn | Aggregate | Aggregate | Gasoline | 0.31 | 0.31 | 0.34 | 1.56 | 0.01 | 7.89 | 0.00 | 0.00 | 0.00 | 426055.84 | 0.00 | 34369.42 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Oi Lawn | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 8662.32 | 0.00 | 1185.24 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Oi Lawn | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 50.84 | 0.00 | 0.21 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Rt Lawn | Aggregate | Aggregate | Gasoline | 0.10 | 0.10 | 0.11 | 5.14 | 0.05 | 10.40 | 0.00 | 0.00 | 0.00 | 701712.42 | 0.00 | 7739.28 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Rt Lawn | Aggregate | Aggregate | Diesel | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 1.25 | 0.00 | 0.00 | 0.00 | 40782.72 | 0.00 | 1222.60 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Sr Lawn | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 1218.00 | 0.00 | 37.07 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Ti Lawn | Aggregate | Aggregate | Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 7916.59 | 0.00 | 2100.02 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - Tr Lawn | Aggregate | Aggregate | Gasoline | 0.20 | 0.20 | 0.21 | 1.05 | 0.01 | 5.95 | 0.00 | 0.00 | 0.00 | 317756.31 | 0.00 | 62212.91 | 0.00 |
| Ventura | 2022.00 | Lawn and Garden - Misc - W Lawn | Aggregate | Aggregate | Gasoline | 0.01 | 0.01 | 0.01 | 0.48 | 0.00 | 1.14 | 0.00 | 0.00 | 0 | | | | |

Overarching Targets of the Ventura County Electric Vehicle Ready Blueprint

The following targets represent ambitious but attainable electric vehicle adoption and charging infrastructure goals for the period from 2020 through 2030, with a focus on the five-year benchmark year of 2025. The achievement of these goals will establish Ventura County as a regional leader in California’s effort to reduce dangerous global warming pollutants and electrify the transportation system.

| | |
|----------------------------|-------------|
| | 2030 Target |
| EV ratio in Ventura County | 12.50% |

- T1. Establish and meet countywide targets for electric vehicle adoption in alignment with the statewide 2025 goal of 1.5 million ZEVs, and the 2030 goal of 5 million ZEVs. (Achieving these goals in Ventura County will require that electric vehicles comprise at least one out of every eight vehicles on the road by 2030).
- T2. Establish and meet countywide targets for electric vehicle infrastructure -- including both Level 2 and DC Fast Charge station development – in alignment with State goals for 2025. To meet the region’s anticipated demand for electric vehicle charging, National Renewable Energy Lab (NREL) and the California Energy Commission estimate that the County will need a total of 3,241 electric vehicle charging stations. This includes 1,073 charging stations at multifamily housing developments, 800 charging stations at the region’s workplaces, 1,167 public destination Level 2 charging stations, and 201 DC Fast Charge stations.

ZEV POPULATION

Total Light-Duty Vehicles end of 2022

23,713

Battery Electric (BEV)

2.40%

16,363

Plug-in Hybrid (PHEV)

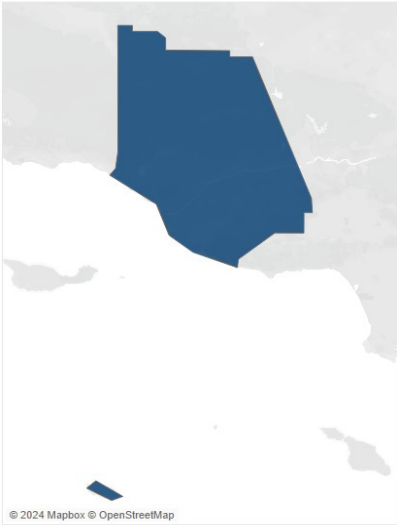
1.05%

7,177

Fuel Cell (FCEV)

0.03%

173



Number of Vehicles

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

NON-ZEV POPULATION

Total Light-Duty Vehicles end of 2022

658,712

Gasoline

89.66%

611,859

Gasoline Hybrid

4.51%

30,755

Diesel

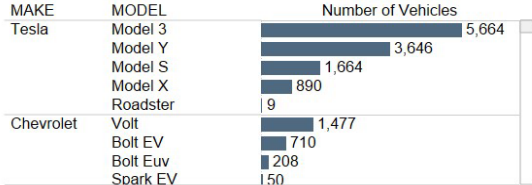
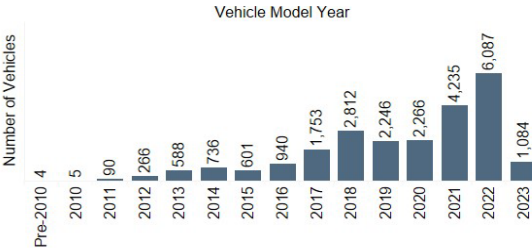
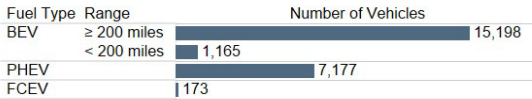
2.34%

15,988

Other

0.02%

110



SELECT FILTERS

Year
2022

Map Filter
County

County
Ventura

Fuel Type
All

Make
All



2022 MEDIUM- & HEAVY-DUTY ZEV POPULATION

Total Medium- & Heavy-Duty ZEVs end of 2022

59

Bus

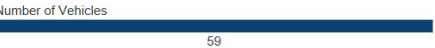
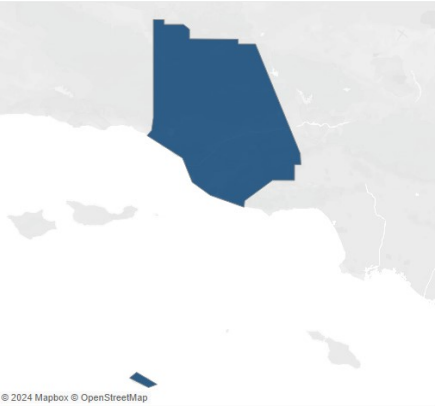
47

Truck

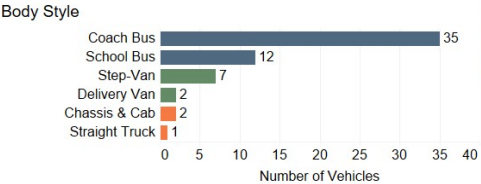
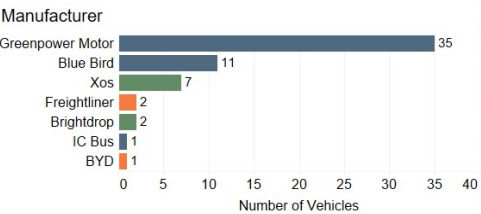
3

Delivery Van

9



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



SELECT FILTERS

County
Ventura

Manufacturer
All

Fuel
All

Weight Class
All

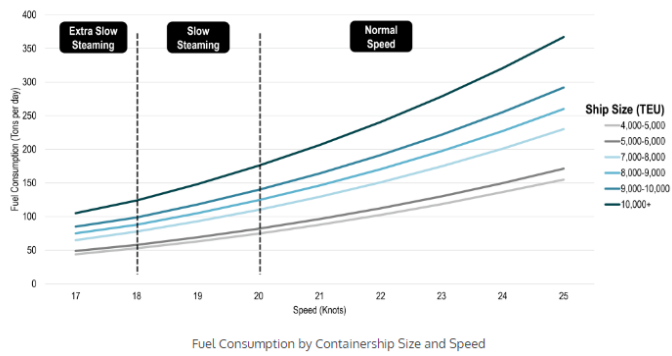
Vehicle Type
All

Legend
Bus
Truck
Delivery Van



| | |
|-----------------------|---------|
| Light Duty | 682,425 |
| Medium and Heavy Duty | 59 |
| Total | 682,484 |

Fuel Consumption by Containership Size and Speed



Source: adapted from Notteboom, T. and P. Carriou (2009) "Fuel surcharge practices of container shipping lines: Is it about cost recovery or revenue making?". Proceedings of the 2009 International Association of Maritime Economists (IAME) Conference, June, Copenhagen, Denmark.

Fuel consumption by a containership is mostly a function of ship size and cruising speed, which follows an exponential function above 14 knots. For instance, while a containership of around 8,000 TEU would consume about 225 tons of bunker fuel per day at 24 knots. At 21 knots, this consumption drops to about 150 tons per day, a 33% decline. While shipping lines would prefer consuming the least amount of fuel by adopting lower speeds, this advantage must be mitigated with longer shipping times as well as assigning more ships on a pendulum service to maintain the same port call frequency. The main ship speed classes are:

- **Normal** (20-25 knots; 37.0 – 46.3 km/hr). Represents the optimal cruising speed a containership and its engine have been designed to travel at. It also reflects the hydrodynamic limits of the hull to perform within acceptable fuel consumption levels. Most containerships are designed to travel at speeds around 24 knots.
- **Slow steaming** (18-20 knots; 33.3 – 37.0 km/hr). Running ship engines below capacity to save fuel consumption but at the expense of an additional travel time, particularly over long distances (compounding effect). This is likely to become the dominant operational speed as more than 50% of the global container shipping capacity operated under such conditions as of 2011.
- **Extra slow steaming** (15-18 knots; 27.8 – 33.3 km/hr). Also known as super slow steaming or economical speed. A substantial decline in speed to achieve a minimal fuel consumption level while still maintaining a commercial service. It can be applied to specific short-distance routes.
- **Minimal cost** (12-15 knots; 22.2 – 27.8 km/hr). The lowest speed technically possible, since lower speeds do not lead to any significant additional fuel economy. However, the level of service is commercially unacceptable, so it is unlikely that maritime shipping companies would adopt such speeds.