
# Methods for Generating Detailed Life Cycle Emissions Estimates for California's Building Sector

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## Introduction

Environmentally-Extended Input-Output (EEIO) analysis is a method used to evaluate the linkages between economic activities and their environmental impacts, such as greenhouse gas emissions. It builds upon traditional Input-Output (IO) analysis[1], which tracks the monetary flows between different sectors of an economy. EEIO methods extend economic models by incorporating environmental data, like resource use and emissions, associated with each economic sector.

The U.S. Environmentally Extended Input-Output (USEEIO) model is a tool developed by the U.S. Environmental Protection Agency (EPA) to estimate the environmental impacts of economic activities. [2] The USEEIO model is a specific EEIO model tailored to the US economy.[3] The model integrates economic data with environmental information, providing a comprehensive framework for assessing the life cycle greenhouse gas (GHG) emissions associated with the production and consumption of goods and services (commodities) in the US economy, considering the entire supply chain.

The USEEIO model has been applied in various contexts, including organizational GHG scope 3 reporting, sustainable purchasing, industry hotspot analysis, and food and other subsystem life cycle modeling. Critically, the USEEIO model can be used to calculate direct and indirect environmental impacts across various sectors relevant to estimating GHG emissions from California's building sector. Working with staff from U.S. EPA, CARB staff have developed a modified version of the USEEIO model, calibrated with California specific data, with the goal of estimating baseline GHG emissions from California's building sector.

## Estimating Life Cycle GHG Emissions

The USEEIO model has been implemented by EPA through an open-source R package called useeior.[4] This implementation allows users to build and use environmentally-extended input output models. The package includes functions for validating, calculating, visualizing, and writing out models and their components. It also provides access to extensive economic and environmental data, making it a powerful tool for researchers and policymakers. Additionally, EPA developed the stateior package[5], which is specifically designed to create multi-region economic input-output tables for states in the United States. The stateior package enables users to create input-output tables for each U.S. state which can be used to build two-region USEEIO models, where the first region is the state of interest, and the second region is the rest of the United States. This package is particularly

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[1] Leontief, W. (1966). Input-output economics by Wassily Leontief. Oxford University Press.

[2] *https://www.epa.gov/land-research/us-environmentally-extended-input-output-useeio-models*

[3] Ingwersen, W.W., Li, M., Young, B. et al. USEEIO v2.0, The US Environmentally-Extended Input-Output Model v2.0. Sci Data 9, 194 (2022). *https://doi.org/10.1038/s41597-022-01293-7*

[4] *https://github.com/usepa/useeior*

[5] *https://github.com/usepa/stateior*

useful for state-level emissions attribution, as it provides a robust commodity-industry modeling framework that models the supply, use, and trade of commodities by industries and final users in 50 U.S. states plus the District of Columbia.

Using a two-region implementation of the USEEIO model, it is possible to analyze and estimate the life cycle GHG emissions for the building sector which is responsible for producing, transporting, and installing building materials within California. This is primarily accomplished by including all sectors with relevant economic activity in the building sector, such as manufacture and distribution of building materials, construction and deconstruction of new buildings, as well as required maintenance and repairs. It is also possible to further refine the two-region implementation to make use of the best available emissions data reported to the state through existing programs.

## I. Core Mathematic Foundations of EEIO

The core of EEIO analysis involves several key matrices and vectors:

1. **The Input-Output Table**: This table captures the monetary transactions between different industries within an economy. It shows how much each industry purchases from every other industry to produce its own output. The US Bureau of Economic Analysis (BEA) provides the 'Make and Use' tables, which form the basis of the USEEIO model.[6] The 'Use' table shows the consumption of commodities by industries and final consumers, while the 'Make' table shows which industries produce which commodities.

2. **Direct Requirements Matrix (A)**: This matrix (often denoted as 'A') is derived from the Make and Use tables and the total output of each industry and each commodity. Each element, $a_{ij,}$ in the A matrix represents the amount of input (in dollars) from industry i that industry j requires to produce one dollar of output in industry j. The A matrix is calculated in USEEIO using the normalized Make and Use tables from the BEA.[7]

3. **Environmental Satellite Table**: This table contains data on the direct environmental impacts (e.g., $CO_2$ emissions in kg) associated with each economic sector or commodity. USEEIO makes use of the flowsa model[8] to map environmental flows on to different sectors, along with life cycle impact assessment, such as the Tool for Reduction and Assessment of Chemicals and Other Environmental Impacts (TRACI)[9], to characterize the environmental impact for each environmental flow. This is taken together to calculate the environmental

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[6] *https://www.bea.gov/industry/input-output-accounts-data*

[7] *https://cfpub.epa.gov/si/si_public_file_download.cfm?p_download_id=540831&Lab=CESER*

[8] Birney C, Young B, Li M, Conner M, Specht J, Ingwersen WW. FLOWSA: A Python Package Attributing Resource Use, Waste, Emissions, and Other Flows to Industries. *Applied Sciences*. 2022; 12(11):5742. *https://doi.org/10.3390/app12115742*

[9] *https://www.epa.gov/chemical-research/tool-reduction-and-assessment-chemicals-and-other-environmental-impacts-traci*

impact per unit of economic output (e.g. kg $CO_2e$ per dollar). In USEEIO, this manifests as the direct emissions matrix (D).

4. **Leontief Inverse Matrix (L)**: This crucial matrix, named after Wassily Leontief, represents the "total requirements" (direct and indirect) of each commodity that is needed to produce one unit of output for any given commodity. It is calculated by subtracting the direct requirements matrix A from its identity matrix (I) and then taking the inverse of the result, which is used to satisfy an equation that represents the complete demand (total requirements) for each commodity to satisfy the total demand of the entire economy:

$$x = Ax + f \quad (1)$$

solving for x:

$$x = (I - A)^{-1} f \quad (2)$$

where x is the total output vector for commodities (total production in the economy), and f is the final demand vector for commodity consumed by end-users. This equation specifies that the total production of a commodity that is needed in the economy is equal to the total commodity demanded by other industrial sectors of the economy (direct requirements), in addition to the total commodity sold directly to end-consumers, such as private households (final demand).

The Leontief inverse captures the ripple effects throughout the entire economy. For instance, to produce a building, you directly need steel, wood, and concrete (direct requirements). However, to produce that steel, the steel industry needs iron ore and energy, and to produce that energy, you might need coal mining and power generation, and so on. The Leontief inverse accounts for all these direct and indirect input requirements.

5. **Life Cycle Emissions Matrix (N)**: To calculate the total environmental impact (e.g., total GHG emissions) associated with one unit of final demand for each commodity, the direct emissions factor matrix (D) is multiplied by the Leontief inverse matrix. The resulting matrix (N) provides the total supply chain emission factors, or total life cycle emissions representing the total environmental impact embodied in a unit of output of each sector or commodity (e.g., kg $CO_2e$ per dollar).

## Example: Direct Requirements and Total Requirements

**Direct Requirements**

To produce $1 worth of concrete, a concrete manufacturer directly requires inputs such as:

- $0.16 of cement from the cement manufacturing sector.
- $0.10 of aggregates (sand, gravel, crushed stone) from the mining sector.
- $0.07 of truck and rail transport

**Indirect Requirements**

To produce the direct requirements for the concrete manufacturer, additional inputs will need to be sourced by those upstream entities that are providing the direct requirements for the concrete manufacturer. For instance:

- To produce cement ($0.16), the cement manufacturing sector requires raw materials like limestone, energy (often from coal and electricity), and transportation.
- To produce aggregates ($0.10), the mining sector requires fuel, explosives, and machinery.
- To provide transportation services ($0.07), the transportation sector needs fuel, vehicles, and infrastructure.

**Total Requirements**

The Leontief inverse matrix (L) captures all these direct and indirect requirements. The column for concrete in the L-matrix would show the total dollar value of output required from every sector in the economy (including aggregates, cement, electricity, transportation, mining, energy production, etc.) to ultimately deliver $1 of concrete to final demand. The total requirement value will be greater than or equal to the corresponding direct

## II. Connecting Life cycle Emissions to the Input-Output Matrices and the Leontief Inverse

The Leontief inverse is mathematically derived from the direct requirements matrix (A). The inversion process essentially solves the system of linear equations that represents the interdependencies in the economy, thus accounting for all the direct and indirect linkages. Each element $L_{ij}$ in L represents the total (direct and indirect) output of commodity i required for one unit of final demand of commodity j. For the concrete example listed above, the column in L corresponding to concrete would show the total commodity output needed from all sectors of the economy (each have their own row) to support the final consumption of concrete.

Finally, by multiplying the direct emission factors (D) for each commodity by the corresponding columns in the Leontief inverse (L), the USEEIO model estimates the total (cradle-to-gate life cycle) emissions associated with the final demand for that commodity (e.g., the total upstream GHG emissions embodied in $1 of concrete). For instance, this factor includes all the emissions generated directly by the concrete manufacturing process as well as all the emissions generated upstream in the production of aggregates, cement, electricity, transportation, and all other supporting goods and services in the economy required to produce concrete.

## III. Discussion of USEEIO Limitations

CARB staff identified two core model limitations that should be addressed with the USEEIO model to improve its application for estimating California-specific building sector emissions.

The first limitation to the USEEIO model is that the two-region USEEIO model created by the U.S. EPA provides sectoral life cycle emissions estimates for only 71 different sectors. This is directly linked to the level of details contained in the annually released "summary" BEA input-output tables. The summary input-output tables account for the economic activity for 71 industry groups.[10] On the other hand, the detailed one-region USEEIO model can account for life cycle emissions for 402 industry groups, directly stemming from the "detailed" BEA input-output tables that cover economic activity for 402 industry groups. The detailed BEA tables, however, are only updated every 5 years compared to the summary tables that are updated annually.

While the 71-sector life cycle emissions estimates can be used to establish a California-specific building sector baseline, there is limited specificity for the commodities acting as inputs into the sector, and limited ability to remove or include specific subsets from each sector. For instance, all construction sector activity is treated as one sector in the "summary" BEA data, rather than being broken down into 12 different sectors as is done in the "detailed" BEA data. It is desirable to have a more detailed breakdown of emissions for different sectors and commodity inputs so that inclusions in the baseline can better represent the emissions attributable to California's building sector.

To increase the resolution for emissions affiliated with different sectors and different industries relevant to building materials, CARB staff have developed a methodology to decompose summary-level data into a more granular matrix, allowing staff to approximate a detailed breakdown for emissions and product consumption like those that can be found in the one-region USEEIO model.

To apply this methodology, summary versions of the direct emissions matrix (D matrix) and the Leontief matrix (L matrix) from the two-region model are used, and these matrices are decomposed using scaling factors that CARB developed using outputs from the detailed one-region USEEIO model. This scaling approach assumes that the composition of an aggregated sector at the state level is likely to have a similar percent composition to an aggregated sector at the national level. As an example, this assumption implies that total consumption from summary sector 327 ("nonmetallic

[10] Updates to the summary table are released annually, while the detailed table is released every 5 years.

mineral product manufacturing") contains the same overall percentages of cement (327310) and ready-mix concrete (327320) at both the state and national levels.

The second limitation to the USEEIO model is that the default implementation of the USEEIO model utilizes the U.S. EPA's GHG Emissions Inventory. The EPA creates its own emissions inventories for each state in the United States, which are the default inventories that get incorporated into the two-region implementations of USEEIO. The EPA's state-specific GHG inventory for California, however, does not perfectly align with the California-specific GHG inventory that CARB develops and maintains. To address this issue, staff created emissions flow mappings for the CARB-maintained GHG emissions inventory, allowing CARB's inventory to be directly used in the two-region USEEIO model.

# IV. Methodology for Disaggregating Summary USEEIO Outputs

## A. Approach for Decomposing the Leontief and D Matrices for the California Input-Output Results

The decomposition process involves breaking down the summary Leontief and direct emissions matrices, which are at a 3-digit North American Industry Classification System (NAICS) level, into more detailed matrices, at a 4-to-6-digit NAICS level. To transition from summary to detailed matrices, a decomposition method based on weighting factors derived from national data is employed. This approach ensures that state-level emissions can be properly allocated to specific industries and materials in California.

## B. Output Matrix

The output vector, X, represents the total economic output from each sector. Each element in X denotes the total value of goods and services produced by a given sector. The decomposition process assigns portions of X to detailed subsectors within summary NAICS classifications, ensuring that economic activity is accurately mapped to emissions profiles.

Let $V$ be a vector, $K$ a summary sector, and $i$ a detailed sector such that $i \in K$. We denote the value of $V$ for the detailed sector $i$ as $V_i$ .

Let $M$ be a matrix, $K$ and $L$ summary sectors, and $i$ and $j$ detailed sectors such that $i \in K$ and $j \in L$. We denote the value of $M$ corresponding to the detailed sectors $i$ and $j$ as $M_{i,j}$.

## C. National-Level Calculations

At the national level, detailed calculations generate the input-output relationships. The national Leontief matrix is given by:

$$L = (I - A)^{-1} \quad (3)$$

Where $I$ is the identity matrix and $A$ is the direct requirements matrix, which represents how industries depend on each other's outputs, and is a matrix that can be determined using BEA's Input-Output accounts data.

The direct emissions matrix is derived from:

$$D = C \cdot B \quad (4)$$

Where $B$ is the satellite matrix, containing emissions factors per unit of economic output that is derived from data sources like the national GHG emissions inventories and other government sources. $C$ is the characterization matrix, translating environmental flows into impact categories. For instance, nitrous oxide emissions have global warming Impacts that are expressed in $CO_2$-equivalents.[11] To parameterize emissions for import commodities, staff specified external import emission factors derived from EXIOBASE[12] in the USEEIO model specifications. EXIOBASE is a global Extended Environmental Input-Output database that provides country-specific emissions factors, which the EPA has mapped to commodities imported to the United States.[13] The useeior model incorporates the EXIOBASE emissions factors such that the total impact matrix (N matrix) incorporates these factors. The N matrix provides the life cycle emissions estimates for commodities. For baseline modeling purposes, staff had to recalculate the direct emissions matrix (D) for California and the Rest of the US to account for the adjusted carbon intensities due to imported commodities:

$$D = N \times L^{-1} \quad (5)$$

This recalculation ensures that the direct emissions factors are consistent with updated life cycle emissions results, both for the US and for California specifically. The detailed D matrix is then disaggregated using the scaling method described below.

At a detailed sector level, the calculation of input flows and emissions follows a structured approach that links economic activity with environmental impact.

Equation 6 represents the input requirement between sectors. The A matrix coefficients $A_{i,j}$ captures how much input from sector $i$ is directly to produce one unit of output in sector $j$. By multiplying it with the output vector $X_j$, we determine the economic demand that sector $j$ places on sector $i$.

$$A_{i,j} \times X_j = Input_{i,j} \quad (6)$$

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[11] *https://archive.ipcc.ch/publications_and_data/ar4/wg1/en/ch2s2-10-2.html*

[12] *https://www.exiobase.eu/*

[13] *https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=362470&Lab=CESER*

Equation 7 translates economic activity into environmental impact. The direct emissions matrix $D_i$ contains emissions factors specific to sector $i$, representing the amount of greenhouse gas emissions generated per unit of output. By multiplying the inter-industry input values with these emissions factors, we obtain the total GHG emissions associated with economic exchanges associated with sector $i$ production to meet sector $j$ output.

$$Input_{i,j} \times D_i^T = Emission_{i,j} \quad (7)$$

Scaling factors are calculated to transition from summary to detailed matrices using matrices from the one-region USEEIO model:

For $i \in K, j \in L$:

$$(Scaling\ factor\ for\ Input)_{i,j} = \frac{Input_{i,j}}{\sum_{k \in K}\sum_{l \in L} Input_{k,l}} \quad (8)$$

$$(Scaling\ factor\ for\ Emission)_{i,j} = \frac{Emission_{i,j}}{\sum_{k \in K}\sum_{l \in L} Emission_{k,l}} \quad (9)$$

## D. Calculating the New Input and Emission Matrices for California

At the state level, the national scaling factors are applied to California's economic and emissions data to estimate detailed sector inputs and emissions.

The detailed state-level output from each sector is computed as:

$$X_j^{state} = \frac{X_j}{\sum_{k \in K} X_k} X_K^{state} \quad (10)$$

Where output vectors $x_j$ and $x_k$ use detailed, one-region (national) estimates.

The matrices for the input of commodities (K) used by a sector (L) and the associated emissions at the summary level for the state are computed as follows:

$$A_{K,L} \times X_L = Input_{K,L}^{state} \quad (11)$$

$$Input_{K,L}^{state} \times D_L = Emission_{K,L}^{state} \quad (12)$$

Using the scaling factors from equations 8 and 9, for $i \in K, j \in L$, we can estimate detailed matrices for California:

$$Input_{i,j}^{state} = (Scaling\ factor\ for\ Input)_{i,j} \times Input_{K,L}^{state} \quad (13)$$

$$Emission_{i,j}^{state} = (Scaling\ factor\ for\ Emission)_{i,j} \times Emission_{K,L}^{state} \quad (14)$$

## E. Final Calculations to Determine the Detailed L and D Matrices for California

The final state-specific direct requirements and direct emissions matrices are then derived to accurately represent sectoral interactions and emissions within California's economy.

The state-specific direct requirement coefficient:

$$A_{i,j}^{state} = \frac{Input_{i,j}^{state}}{X_j^{state}} \quad (15)$$

Equation 15 quantifies the proportion of output from sector $j$ that is used as an input in sector $i$. By normalizing the total inter-industry input flows by sectoral output, this equation ensures that the input-output relationships appropriately reflect California's aggregate production structure.

Similarly, the direct emissions coefficient can be calculated:

$$(D_i^{state})^T = \frac{\sum_j Emission_{i,j}^{state}}{\sum_j Input_{i,j}^{state}} \quad (16)$$

Equation 16 determines the emissions intensity of sector $i$ by dividing total emissions associated with all inputs from sector $i$ into each sector of the economy by the total demand for input i.

The detailed Leontief inverse matrix for the state can be computed using the relationship:

$$L^{state} = (I - A^{state})^{-1} \quad (17)$$

With the detailed L and D matrices established, total detailed emissions for sector j can be computed as:

$$FC_j^{state} \times \sum_i L_{i,j}^{state} \times D_i^{state} = Total\_Emissions_j^{state} \quad (18)$$

Where $FC_j^{state}$ represents the final consumption vector for detailed commodities in California, and is calculated similarly to detailed output, where $FC_j$ is final consumption for sector j at the national level, and $FC_k$ is the final consumption sector group that $FC_j$ is part of at the national level:

$$FC_j^{state} = \frac{FC_j}{\sum_{k \in K} FC_k} FC_K^{state} \quad (19)$$

## V. Integrating California's GHG Emissions Inventory into USEEIO

The USEEIO open-source package programed in R language (useeior) allows for customization for the specific dataflows that get mapped on to different economic sectors. However, EPA's California GHG Inventory does not perfectly reflect the GHG Inventory that CARB creates. As such, staff have worked to implement CARB's GHG emissions inventory into the USEEIO model. This ensures that emissions factors for industries located in California accurately reflect what is published in CARB's GHG Inventory.

To integrate the CARB GHG Inventory into USEEIO, staff created mappings for each entry in the GHG emissions inventory and assigned the emissions activity to a specific NAICS sector responsible for those emissions. The detailed mapping created by staff is included in Appendix A.

## VI. Scaling Consumption to Project Final Demand beyond 2022

Because the most up-to-date California GHG Emissions Inventory is for 2022, all USEEIO modeling was done for 2022. However, the baseline is supposed to be reflective of consumption that occurs in 2026. To project future consumption, staff used outputs from the Regional Economic Models, Inc. model (REMI).[14] The REMI model is used by CARB for regular rulemaking activity to estimate economic impacts that regulations may have for different sectors. REMI projects demand for 161 different sectors. The ratio of demand for commodity in a projected year relative to 2022 can be used to scale the final demand for different commodity that is estimated using USEEIO outputs. In this way, baseline modeling projections will remain consistent with the economic modeling that CARB does for other regulatory programs.

[14] *https://www.remi.com/*

# Appendix A. Sector Mapping for California's GHG Emissions Inventory

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 111 | Agriculture, Ag Energy Use, Crop Production, NA, Fuel combustion, Natural gas |
| 112 | Agriculture, Ag Energy Use, Livestock, NA, Fuel combustion, Natural gas |
| 115 | Agriculture, Ag Energy Use, Not Specified, NA, Fuel combustion, Biodiesel |
| 115 | Agriculture, Ag Energy Use, Not Specified, NA, Fuel combustion, Distillate |
| 11 | Agriculture, Ag Energy Use, Not Specified, NA, Fuel combustion, Ethanol |
| 11 | Agriculture, Ag Energy Use, Not Specified, NA, Fuel combustion, Gasoline |
| 115 | Agriculture, Ag Energy Use, Not Specified, NA, Fuel combustion, Kerosene |
| 111 | Agriculture, Ag Energy Use, Not Specified, NA, Fuel combustion, Natural gas |
| 115 | Agriculture, Ag Energy Use, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 111 | Agriculture, Ag Residue Burning, Field Crops, NA, Crop acreage burned, Barley |
| 111 | Agriculture, Ag Residue Burning, Field Crops, NA, Crop acreage burned, Corn |
| 111 | Agriculture, Ag Residue Burning, Field Crops, NA, Crop acreage burned, Rice |
| 111 | Agriculture, Ag Residue Burning, Field Crops, NA, Crop acreage burned, Wheat |
| 111 | Agriculture, Ag Residue Burning, Orchard & Vineyard, NA, Crop acreage burned, Almond |
| 111 | Agriculture, Ag Residue Burning, Orchard & Vineyard, NA, Crop acreage burned, Walnut |
| 115 | Agriculture, Ag Soil Management, Crop Residues, Direct, Nitrogen in crop residues, NA |
| 115 | Agriculture, Ag Soil Management, Fertilizer, Direct, Nitrogen applied in fertilizer, Organic fertilizers |
| 115 | Agriculture, Ag Soil Management, Fertilizer, Direct, Nitrogen applied in fertilizer, Synthetic fertilizers |
| 115 | Agriculture, Ag Soil Management, Fertilizer, Indirect, Nitrogen applied in fertilizer, Organic fertilizers |
| 115 | Agriculture, Ag Soil Management, Fertilizer, Indirect, Nitrogen applied in fertilizer, Synthetic fertilizers |
| 115 | Agriculture, Ag Soil Management, Liming, NA, Dolomite applied to soils, NA |
| 115 | Agriculture, Ag Soil Management, Liming, NA, Limestone applied to soils, NA |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in managed manure, Beef cattle |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in managed manure, Dairy cows |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in managed manure, Dairy heifers |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in managed manure, Poultry |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in managed manure, Sheep, goat, horse |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in managed manure, Swine |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in unmanaged manure, Beef cattle |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in unmanaged manure, Dairy cows |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in unmanaged manure, Dairy heifers |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in unmanaged manure, Poultry |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in unmanaged manure, Sheep, goat, horse |
| 115 | Agriculture, Ag Soil Management, Manure, Direct, Nitrogen in unmanaged manure, Swine |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in managed manure, Beef cattle |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in managed manure, Dairy cows |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in managed manure, Dairy heifers |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in managed manure, Poultry |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in managed manure, Sheep, goat, horse |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in managed manure, Swine |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in unmanaged manure, Beef cattle |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in unmanaged manure, Dairy cows |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in unmanaged manure, Dairy heifers |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in unmanaged manure, Poultry |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in unmanaged manure, Sheep, goat, horse |
| 115 | Agriculture, Ag Soil Management, Manure, Indirect, Nitrogen in unmanaged manure, Swine |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Beef calves |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Beef cows |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Beef replacements 0-12 months |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Beef replacements 12-24 months |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Bulls |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Dairy calves |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Dairy cows |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Dairy replacements 0-12 months |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Dairy replacements 12-24 months |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Heifer feedlot |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Heifer stockers |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Steer feedlot |
| 112 | Agriculture, Enteric Fermentation, Cattle, NA, Livestock population, Steer stockers |
| 112 | Agriculture, Enteric Fermentation, Other Livestock, NA, Livestock population, Goats |
| 112 | Agriculture, Enteric Fermentation, Other Livestock, NA, Livestock population, Horses |
| 112 | Agriculture, Enteric Fermentation, Other Livestock, NA, Livestock population, Sheep |
| 112 | Agriculture, Enteric Fermentation, Other Livestock, NA, Livestock population, Swine |
| 111 | Agriculture, Histosol Cultivation, Not Specified, Direct, Drained histosols, NA |
| 112 | Agriculture, Manure Management, Cattle, Anaerobic digester, Livestock population, Dairy cows |
| 112 | Agriculture, Manure Management, Cattle, Anaerobic lagoon, Livestock population, Dairy cows |
| 112 | Agriculture, Manure Management, Cattle, Daily spread, Livestock population, Dairy cows |
| 112 | Agriculture, Manure Management, Cattle, Daily spread, Livestock population, Dairy heifers |
| 112 | Agriculture, Manure Management, Cattle, Deep pit, Livestock population, Dairy cows |
| 112 | Agriculture, Manure Management, Cattle, Dry lot, Livestock population, Dairy heifers |
| 112 | Agriculture, Manure Management, Cattle, Dry lot, Livestock population, Feedlot - heifers 500+ lbs |
| 112 | Agriculture, Manure Management, Cattle, Dry lot, Livestock population, Feedlot - steers 500+ lbs |
| 112 | Agriculture, Manure Management, Cattle, Liquid/slurry, Livestock population, Dairy cows |
| 112 | Agriculture, Manure Management, Cattle, Liquid/slurry, Livestock population, Dairy heifers |
| 112 | Agriculture, Manure Management, Cattle, Liquid/slurry, Livestock population, Feedlot - heifers 500+ lbs |
| 112 | Agriculture, Manure Management, Cattle, Liquid/slurry, Livestock population, Feedlot - steers 500+ lbs |
| 112 | Agriculture, Manure Management, Cattle, Pasture, Livestock population, Dairy cows |
| 112 | Agriculture, Manure Management, Cattle, Pasture, Livestock population, Dairy heifers |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 112 | Agriculture, Manure Management, Cattle, Pasture, Livestock population, Not on feed - beef cows |
| 112 | Agriculture, Manure Management, Cattle, Pasture, Livestock population, Not on feed - bulls 500+ lbs |
| 112 | Agriculture, Manure Management, Cattle, Pasture, Livestock population, Not on feed - calves <500 lbs |
| 112 | Agriculture, Manure Management, Cattle, Pasture, Livestock population, Not on feed - heifers 500+ lbs |
| 112 | Agriculture, Manure Management, Cattle, Pasture, Livestock population, Not on feed - steers 500+ lbs |
| 112 | Agriculture, Manure Management, Cattle, Solid storage, Livestock population, Dairy cows |
| 112 | Agriculture, Manure Management, Other Livestock, Dry lot, Livestock population, Goats |
| 112 | Agriculture, Manure Management, Other Livestock, Dry lot, Livestock population, Horses |
| 112 | Agriculture, Manure Management, Other Livestock, Dry lot, Livestock population, Sheep |
| 112 | Agriculture, Manure Management, Other Livestock, Pasture, Livestock population, Goats |
| 112 | Agriculture, Manure Management, Other Livestock, Pasture, Livestock population, Horses |
| 112 | Agriculture, Manure Management, Other Livestock, Pasture, Livestock population, Sheep |
| 112 | Agriculture, Manure Management, Poultry, Anaerobic lagoon, Livestock population, Hens 1+ yr |
| 112 | Agriculture, Manure Management, Poultry, Anaerobic lagoon, Livestock population, Other chickens |
| 112 | Agriculture, Manure Management, Poultry, Anaerobic lagoon, Livestock population, Pullets |
| 112 | Agriculture, Manure Management, Poultry, Pasture, Livestock population, Broilers |
| 112 | Agriculture, Manure Management, Poultry, Pasture, Livestock population, Turkeys |
| 112 | Agriculture, Manure Management, Poultry, Poultry with bedding, Livestock population, Broilers |
| 112 | Agriculture, Manure Management, Poultry, Poultry with bedding, Livestock population, Turkeys |
| 112 | Agriculture, Manure Management, Poultry, Poultry without bedding, Livestock population, Hens 1+ yr |
| 112 | Agriculture, Manure Management, Poultry, Poultry without bedding, Livestock population, Other chickens |
| 112 | Agriculture, Manure Management, Poultry, Poultry without bedding, Livestock population, Pullets |
| 112 | Agriculture, Manure Management, Swine, Anaerobic digester, Livestock population, Swine - breeding |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 112 | Agriculture, Manure Management, Swine, Anaerobic digester, Livestock population, Swine - market < 50 lbs |
| 112 | Agriculture, Manure Management, Swine, Anaerobic digester, Livestock population, Swine - market 120-179 lbs |
| 112 | Agriculture, Manure Management, Swine, Anaerobic digester, Livestock population, Swine - market 180+ lbs |
| 112 | Agriculture, Manure Management, Swine, Anaerobic digester, Livestock population, Swine - market 50-119 lbs |
| 112 | Agriculture, Manure Management, Swine, Anaerobic lagoon, Livestock population, Swine - breeding |
| 112 | Agriculture, Manure Management, Swine, Anaerobic lagoon, Livestock population, Swine - market < 50 lbs |
| 112 | Agriculture, Manure Management, Swine, Anaerobic lagoon, Livestock population, Swine - market 120-179 lbs |
| 112 | Agriculture, Manure Management, Swine, Anaerobic lagoon, Livestock population, Swine - market 180+ lbs |
| 112 | Agriculture, Manure Management, Swine, Anaerobic lagoon, Livestock population, Swine - market 50-119 lbs |
| 112 | Agriculture, Manure Management, Swine, Deep pit, Livestock population, Swine - breeding |
| 112 | Agriculture, Manure Management, Swine, Deep pit, Livestock population, Swine - market < 50 lbs |
| 112 | Agriculture, Manure Management, Swine, Deep pit, Livestock population, Swine - market 120-179 lbs |
| 112 | Agriculture, Manure Management, Swine, Deep pit, Livestock population, Swine - market 180+ lbs |
| 112 | Agriculture, Manure Management, Swine, Deep pit, Livestock population, Swine - market 50-119 lbs |
| 112 | Agriculture, Manure Management, Swine, Liquid/slurry, Livestock population, Swine - breeding |
| 112 | Agriculture, Manure Management, Swine, Liquid/slurry, Livestock population, Swine - market < 50 lbs |
| 112 | Agriculture, Manure Management, Swine, Liquid/slurry, Livestock population, Swine - market 120-179 lbs |
| 112 | Agriculture, Manure Management, Swine, Liquid/slurry, Livestock population, Swine - market 180+ lbs |
| 112 | Agriculture, Manure Management, Swine, Liquid/slurry, Livestock population, Swine - market 50-119 lbs |
| 112 | Agriculture, Manure Management, Swine, Pasture, Livestock population, Swine - breeding |
| 112 | Agriculture, Manure Management, Swine, Pasture, Livestock population, Swine - market < 50 lbs |
| 112 | Agriculture, Manure Management, Swine, Pasture, Livestock population, Swine - market 120-179 lbs |
| 112 | Agriculture, Manure Management, Swine, Pasture, Livestock population, Swine - market 180+ lbs |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 112 | Agriculture, Manure Management, Swine, Pasture, Livestock population, Swine - market 50-119 lbs |
| 112 | Agriculture, Manure Management, Swine, Solid storage, Livestock population, Swine - breeding |
| 112 | Agriculture, Manure Management, Swine, Solid storage, Livestock population, Swine - market < 50 lbs |
| 112 | Agriculture, Manure Management, Swine, Solid storage, Livestock population, Swine - market 120-179 lbs |
| 112 | Agriculture, Manure Management, Swine, Solid storage, Livestock population, Swine - market 180+ lbs |
| 112 | Agriculture, Manure Management, Swine, Solid storage, Livestock population, Swine - market 50-119 lbs |
| 111 | Agriculture, Rice Cultivation, Field Crops, NA, Rice crop area, NA |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biomethane_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biomethane_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biomethane_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biomethane_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biomethane_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biomethane_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Biomethane_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Crude oil_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Crude oil_622110 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Crude oil_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Crude oil_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Crude oil_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Crude oil_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Crude oil_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Digester gas_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Digester gas_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Digester gas_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Digester gas_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Digester gas_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Digester gas_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Digester gas_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Distillate_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Distillate_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Distillate_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Distillate_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Distillate_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Distillate_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Distillate_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Jet fuel_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Jet fuel_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Jet fuel_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Jet fuel_922140 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Jet fuel_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Jet fuel_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Jet fuel_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Kerosene_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Kerosene_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Kerosene_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Kerosene_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Kerosene_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Kerosene_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Kerosene_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Natural gas_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Natural gas_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Natural gas_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Natural gas_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Natural gas_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Natural gas_541990 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Natural gas_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Propane_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Propane_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Propane_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Propane_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Propane_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Propane_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Propane_488119 |
| 611 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_611310 |
| 622 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_622110 |
| 921 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_921190 |
| 922 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_922140 |
| 928 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_928110 |
| 541 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_541990 |
| 488 | Commercial, CHP: Commercial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_488119 |
| 512 | Commercial, Communication, Other Message Communications, NA, Fuel combustion, Natural gas_512 |
| 519 | Commercial, Communication, Other Message Communications, NA, Fuel combustion, Natural gas_519 |
| 492 | Commercial, Communication, Other Message Communications, NA, Fuel combustion, Natural gas_492 |
| 518 | Commercial, Communication, Other Message Communications, NA, Fuel combustion, Natural gas_518 |
| 515 | Commercial, Communication, Radio Broadcasting Stations, NA, Fuel combustion, Natural gas |
| 517 | Commercial, Communication, Telephone & Cell Phone Services, NA, Fuel combustion, Natural gas |
| 491 | Commercial, Communication, U.S. Postal Service, NA, Fuel combustion, Natural gas |
| 221 | Commercial, Domestic Utilities, Sewerage Systems, NA, Fuel combustion, Natural gas |
| 221 | Commercial, Domestic Utilities, Water Supply, NA, Fuel combustion, Natural gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 611 | Commercial, Education, College, NA, Fuel combustion, Natural gas |
| 611 | Commercial, Education, School, NA, Fuel combustion, Natural gas |
| 722 | Commercial, Food Services, Food & Liquor, NA, Fuel combustion, Natural gas |
| 722 | Commercial, Food Services, Restaurant, NA, Fuel combustion, Natural gas |
| 62 | Commercial, Health Care, Not Specified, NA, Fuel combustion, Natural gas |
| 721 | Commercial, Hotels, Not Specified, NA, Fuel combustion, Natural gas_7211 |
| 721 | Commercial, Hotels, Not Specified, NA, Fuel combustion, Natural gas_7213 |
| 561 | Commercial, Landscape, Fertilizer, Direct, Commercial use of nitrogen fertilizer on turf, Synthetic fertilizers |
| 561 | Commercial, Landscape, Fertilizer, Indirect, Commercial use of nitrogen fertilizer on turf, Synthetic fertilizers |
| 928 | Commercial, National Security, Not Specified, NA, Fuel combustion, Natural gas |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Biodiesel |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Coal |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Distillate |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Ethanol |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Gasoline |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Kerosene |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, LPG |
| 81 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Natural gas_81 |
| 71 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Natural gas_71 |
| 92 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Natural gas_92 |
| 56 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Natural gas_56 |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Residual fuel oil |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Wood (wet) |
| 531 | Commercial, Not Specified, Not Specified, NA, Fuel storage, Coal |
| 531 | Commercial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Aerosols |
| 531 | Commercial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Fire Protection |
| 531 | Commercial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Foams |
| 531 | Commercial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Refrigeration and Air Conditioning |
| 541 | Commercial, Offices, Not Specified, NA, Fuel combustion, Natural gas |
| 424 | Commercial, Retail & Wholesale, Refrigerated Warehousing, NA, Fuel combustion, Natural gas_4244 |
| 493 | Commercial, Retail & Wholesale, Refrigerated Warehousing, NA, Fuel combustion, Natural gas_493 |
| 42 | Commercial, Retail & Wholesale, Refrigerated Warehousing, NA, Fuel combustion, Natural gas_4224 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 45 | Commercial, Retail & Wholesale, Retail, NA, Fuel combustion, Natural gas |
| 493 | Commercial, Retail & Wholesale, Warehousing, NA, Fuel combustion, Natural gas |
| 488 | Commercial, Transportation Services, Airports, NA, Fuel combustion, Natural gas |
| 485 | Commercial, Transportation Services, Transportation, NA, Fuel combustion, Natural gas |
| 488 | Commercial, Transportation Services, Water Transportation, NA, Fuel combustion, Natural gas_4883 |
| 483 | Commercial, Transportation Services, Water Transportation, NA, Fuel combustion, Natural gas_483 |
| 487 | Commercial, Transportation Services, Water Transportation, NA, Fuel combustion, Natural gas_487210 |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Agua Fria Generating Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Aligned Microgrid (AZ), Electricity generation, Distillate |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Apache Generating Station (AZ), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Apache Generating Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Arlington Valley Energy Facility (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Black Mountain Generating Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Cholla Power Station (AZ), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Coolidge Generation Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Coronado Generating Station (AZ), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, CSE Arizona Facility (AZ), Electricity generation, Primary Fuel: Digester Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Desert Basin Generating Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Gila River Power Station - All Blocks (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Gila River Power Station - Block 1 (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Gila River Power Station - Block 2 (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Gila River Power Station - Block 3 (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Gila River Power Station - Block 4 (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Griffith Energy (AZ), Electricity generation, Primary fuel: Natural Gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, H. Wilson Sundt Generating Station (fka Irvington Generating Station) (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Harquahala Generating Project (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Kyrene Generating Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, MCAS Yuma Microgrid MCGX02 (AZ), Electricity generation, Distillate |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Mesquite Generating Station - All Blocks (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Mesquite Generating Station - Block 1 (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Mesquite Generating Station - Block 2 (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Navajo Generating Station (AZ), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, North Loop Generating Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Ocotillo (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Red Hawk Power Station CC Natural Gas (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Saguaro (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Santan Generating Station (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, South Point Energy Center (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Springerville Generating Station (AZ), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Stotz Southern Generation (AZ), Electricity generation, Primary Fuel: Digester Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Sundance (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Valencia Power Plant (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, West Phoenix (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Yucca (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Arizona, Yuma Cogen Associates (AZ), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, California Tribal, Desert View Power (CA Tribal), Electricity generation, Primary fuel: Biomass |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (Imports), Specified Imports, Canada, Armstrong Woodwaste Cogeneration (CAN), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Canada, Powell River Generation (Catalyst Paper) (CAN), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Canada, Prince George Pulp & Paper (CAN), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Colorado, Craig (CO), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Colorado, Rawhide Unit (CO), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Bennett Mountain Power (ID), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Big Sky Dairy Digester (ID), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Clearwater Paper Corp. - Lewiston (ID), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Evander Andrews Power Complex (ID), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Kettle Butte Dairy Biofactory [Digester Gas] (ID), Electricity generation, Digester gas |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Lancaster (ID), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Langley Gulch Power Plant (ID), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Rathdrum (ID), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Idaho, Rock Creek Dairy (New Energy One) (ID), Electricity generation, Primary Fuel: Digester Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Mexico, La Rosita Power Project (MEX), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Mexico, Termoelectrica de Mexicali (MEX), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Montana, Centennial Hardin (MT), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Montana, Colstrip (MT), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Multi-Jurisdictional, PacifiCorp (MJRP), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Nebraska, Whelan Energy Center (NE), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Apex Generating Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Chuck Lenzie Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Clark Station (NV), Electricity generation, Primary fuel: Natural Gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Desert Star Energy Center (fka Eldorado Energy) (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Fort Churchill Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Frank Tracy Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Harry Allen Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Higgins Generating Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Las Vegas Generating Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Mohave (NV), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Reid Gardner Station (NV), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Silverhawk Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Steamboat Hills Geothermal (NV), Electricity generation, Primarily Geothermal |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Sun Peak Generating Station (NV), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, Terra-Gen Dixie Valley (NV), Electricity generation, Primarily Geothermal |
| 221 | Electricity Generation (Imports), Specified Imports, Nevada, TS Power Plant (NV), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, Afton Generating Station (NM), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, Four Corners Power Plant (NM), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, La Luz Generating Station (NM), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, Lordsburg Generating Station (NM), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, Luna Energy Facility (NM), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, Reeves Generating Station (NM), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, Rio Bravo Generating Station (NM), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, San Juan (NM), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, New Mexico, Valencia Energy Center (NM), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Beaver (OR), Electricity generation, Primary fuel: Natural Gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Boardman Power Plant (OR), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Carty Generating Station (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Coyote Springs I (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Coyote Springs II (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Hermiston (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Hermiston Power (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Klamath Expansion Project (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Klamath Falls Cogen (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Port Westward 1 (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Port Westward 2 (OR), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Oregon, Seneca Sustainability Energy (OR), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Pacific Northwest, Bonneville Power Administration (PNW), Electricity generation, Primarily Hydropower |
| 221 | Electricity Generation (Imports), Specified Imports, Pacific Northwest, Powerex (PNW), Electricity generation, Primarily Hydropower |
| 221 | Electricity Generation (Imports), Specified Imports, Pacific Northwest, Tacoma Power (PNW), Electricity generation, Primarily Hydropower |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Blundell (UT), Electricity generation, Primarily Geothermal |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Bonanza Power Plant (UT), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Currant Creek (UT), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Gadsby (UT), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Hunter (UT), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Huntington (UT), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Intermountain Power Project (IPP) (UT), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Lake Side (UT), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Nebo Power Station (UT), Electricity generation, Primary fuel: Natural Gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (Imports), Specified Imports, Utah, Trans-Jordan Generating Station (Landfill Gas) (UT), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Utah, West Valley Generation Project (UT), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Boulder Park (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Chehalis (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Encogen Generating Station (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Ferndale Generating Station (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Frederickson PSE (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Fredonia Generating Station (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Goldendale Generating Station (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Grays Harbor Energy (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, HW Hill Landfill Gas (aka Roosevelt Biogas 1) (WA), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Kettle Falls Woodwaste Plant (WA), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Longview Washington Pulp & Paper Mill (WA), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, McKinley Paper - Washington Mill (WA), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Mint Farm Generation Station (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Nippon Paper Cogen (WA), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, River Road Generating Plant (Clark County PUD) (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Sierra Pacific Burlington (WA), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Sumas Power Plant (WA), Electricity generation, Primary fuel: Natural Gas |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Transalta Centralia Generation (WA), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, WestRock - Tacoma (fka Simpson Biomass) (WA), Electricity generation, Primary fuel: Biomass |
| 221 | Electricity Generation (Imports), Specified Imports, Washington, Weyerhaeuser Longview (WA), Electricity generation, Primary fuel: Biomass |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (Imports), Specified Imports, Wyoming, Dave Johnston (WY), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Wyoming, Jim Bridger Total Plant (WY), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Wyoming, Laramie River Station (WY), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Wyoming, Naughton (WY), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Specified Imports, Wyoming, Wyodak (WY), Electricity generation, Primary fuel: Coal |
| 221 | Electricity Generation (Imports), Transmission and Distribution, Not Specified, NA, Electricity transmitted, NA |
| 221 | Electricity Generation (Imports), Unspecified Imports, CAISO EIM Outstanding Emissions, NA, Electricity generation, Unspecified sources |
| 221 | Electricity Generation (Imports), Unspecified Imports, Other, NA, Electricity generation, Unspecified sources |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Acid gas control, NA_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_622310 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biodiesel_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Biomethane_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Crude oil_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_488119 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Digester gas_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Distillate_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Jet fuel_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_928110 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Kerosene_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Landfill gas_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Natural gas_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_541990 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Propane_921190 |
| 611 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_611310 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_622110 |
| 922 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_922140 |
| 541 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_541990 |
| 928 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_928110 |
| 488 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_488119 |
| 622 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_622310 |
| 921 | Electricity Generation (In State), CHP: Commercial, Not Specified, NA, Fuel combustion, Renewable Diesel_921190 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Acid gas control, NA |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Associated gas_211111 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Associated gas_211112 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Biodiesel |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Biomass |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Biomethane |
| 212 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Coal_212391 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Coal_221112 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Crude oil |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Digester gas |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Distillate |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Kerosene |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Landfill gas |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, MSW |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Natural gas_221112 |
| 324 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Natural gas_324110 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Natural gas_211111 |
| 322 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Natural gas_322130 |
| 322 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Natural gas_322121 |
| 311 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Natural gas_311421 |
| 212 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Natural gas_212391 |
| 324 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Petroleum coke_324199 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Petroleum coke_221112 |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Propane |
| 324 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Refinery gas |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Residual fuel oil |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Tires |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel combustion, Waste oil |
| 221 | Electricity Generation (In State), CHP: Industrial, Not Specified, NA, Fuel storage, Coal |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Acid gas control, NA |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Associated gas |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Biodiesel |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Biomass |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Biomethane |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Crude oil |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Digester gas |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Distillate |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Jet fuel |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Kerosene |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Landfill gas |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, MSW |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Natural gas |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Petroleum coke |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Propane |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Refinery gas |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Residual fuel oil |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Fuel combustion, Waste oil |
| 221 | Electricity Generation (In State), Merchant Owned, Not Specified, NA, Geothermal power, Geothermal |
| 221 | Electricity Generation (In State), Transmission and Distribution, Not Specified, NA, Electricity transmitted, NA |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Acid gas control, NA |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Biodiesel |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Biomass |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Biomethane |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Digester gas |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Distillate |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Landfill gas |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Natural gas |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Propane |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Refinery gas |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Fuel combustion, Residual fuel oil |
| 221 | Electricity Generation (In State), Utility Owned, Not Specified, NA, Geothermal power, Geothermal |
| 221 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Associated gas_211111 |
| 221 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Associated gas_211112 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomass_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomass_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomass_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomass_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomass_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomethane_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomethane_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomethane_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomethane_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomethane_31 |
| 212 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Coal_212391 |
| 221 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Coal_221112 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Crude oil_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Crude oil_21 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Crude oil_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Crude oil_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Crude oil_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Digester gas_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Digester gas_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Digester gas_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Digester gas_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Digester gas_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Distillate_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Distillate_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Distillate_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Distillate_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Distillate_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Kerosene_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Kerosene_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Kerosene_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Kerosene_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Kerosene_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Landfill gas_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, MSW_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, MSW_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, MSW_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, MSW_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, MSW_31 |
| 324 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Natural gas_324110 |
| 221 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Natural gas_221112 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 221 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Natural gas_211111 |
| 322 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Natural gas_322121 |
| 322 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Natural gas_322130 |
| 212 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Natural gas_212391 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Petroleum coke_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Petroleum coke_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Petroleum coke_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Petroleum coke_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Petroleum coke_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Propane_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Propane_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Propane_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Propane_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Propane_31 |
| 324 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Refinery gas |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Residual fuel oil_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Residual fuel oil_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Residual fuel oil_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Residual fuel oil_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Residual fuel oil_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Tires_32 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Tires_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Tires_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Tires_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Tires_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Waste oil_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Waste oil_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Waste oil_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Waste oil_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Waste oil_31 |
| 32 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel storage, Coal_32 |
| 21 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel storage, Coal_21 |
| 22 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel storage, Coal_22 |
| 61 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel storage, Coal_61 |
| 31 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel storage, Coal_31 |
| 562 | Industrial, Landfills, Not Specified, NA, Landfill gas generation, Landfill gas |
| 325 | Industrial, Manufacturing, Chemicals & Allied Products, Nitric Acid, Nitric acid production, NA |
| 23 | Industrial, Manufacturing, Construction, Fugitives, Fugitive emissions, NA |
| 23 | Industrial, Manufacturing, Construction, NA, Fuel combustion, Ethanol |
| 23 | Industrial, Manufacturing, Construction, NA, Fuel combustion, Gasoline |
| 23 | Industrial, Manufacturing, Construction, NA, Fuel combustion, Natural gas |
| 334 | Industrial, Manufacturing, Electric & Electronic Equip., Fugitives, Fugitive emissions, NA |
| 334 | Industrial, Manufacturing, Electric & Electronic Equip., NA, Fuel combustion, Natural gas |
| 334 | Industrial, Manufacturing, Electric & Electronic Equip., Semiconductors & Related Products, Semiconductor manufacture, NA |
| 311 | Industrial, Manufacturing, Food Products, Food Processing, Fuel combustion, Natural gas |
| 311 | Industrial, Manufacturing, Food Products, Fugitives, Fugitive emissions, NA |
| 311 | Industrial, Manufacturing, Food Products, NA, Fuel combustion, Natural gas_3118 |
| 312 | Industrial, Manufacturing, Food Products, NA, Fuel combustion, Natural gas_3121 |
| 311 | Industrial, Manufacturing, Food Products, NA, Fuel combustion, Natural gas_3119 |
| 311 | Industrial, Manufacturing, Food Products, NA, Fuel combustion, Natural gas_311000 |
| 311 | Industrial, Manufacturing, Food Products, Sugar & Confections, Fuel combustion, Natural gas |
| 334 | Industrial, Manufacturing, Metal Durables, Computers & Office Machines, Fuel combustion, Natural gas_3344 |
| 334 | Industrial, Manufacturing, Metal Durables, Computers & Office Machines, Fuel combustion, Natural gas_3341 |
| 334 | Industrial, Manufacturing, Metal Durables, Computers & Office Machines, Fuel combustion, Natural gas_334000 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 334 | Industrial, Manufacturing, Metal Durables, Computers & Office Machines, Fuel combustion, Natural gas_33461 |
| 332 | Industrial, Manufacturing, Metal Durables, Fabricated Metal Products, Fuel combustion, Natural gas |
| 333 | Industrial, Manufacturing, Metal Durables, Industrial Machinery & Equip., Fuel combustion, Natural gas_333 |
| 335 | Industrial, Manufacturing, Metal Durables, Industrial Machinery & Equip., Fuel combustion, Natural gas_335 |
| 31 | Industrial, Manufacturing, Not Specified, Fugitives, Fugitive emissions, NA |
| 31 | Industrial, Manufacturing, Not Specified, NA, Acid gas control, NA |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Biodiesel |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Coal |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Distillate |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Ethanol |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Gasoline |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Kerosene |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, LPG |
| 32 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Natural gas_999999 |
| 32 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Natural gas_999900 |
| 339 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Natural gas_3399 |
| 339 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Natural gas_3391 |
| 339 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Natural gas_339000 |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Petroleum coke |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel combustion, Residual fuel oil |
| 31 | Industrial, Manufacturing, Not Specified, NA, Fuel storage, Coal |
| 326 | Industrial, Manufacturing, Plastics & Rubber, Fugitives, Fugitive emissions, NA |
| 326 | Industrial, Manufacturing, Plastics & Rubber, NA, Fuel combustion, Natural gas |
| 326 | Industrial, Manufacturing, Plastics & Rubber, Plastics, Fuel combustion, Natural gas |
| 331 | Industrial, Manufacturing, Primary Metals, Fugitives, Fugitive emissions, NA |
| 331 | Industrial, Manufacturing, Primary Metals, Lead Smelting, Process emissions, NA |
| 331 | Industrial, Manufacturing, Primary Metals, NA, Fuel combustion, Natural gas_331 |
| 332 | Industrial, Manufacturing, Primary Metals, NA, Fuel combustion, Natural gas_332 |
| 331 | Industrial, Manufacturing, Primary Metals, NA, Fuel combustion, Natural gas_330000 |
| 323 | Industrial, Manufacturing, Printing & Publishing, NA, Fuel combustion, Natural gas_3231 |
| 511 | Industrial, Manufacturing, Printing & Publishing, NA, Fuel combustion, Natural gas_5112 |
| 511 | Industrial, Manufacturing, Printing & Publishing, NA, Fuel combustion, Natural gas_5111 |
| 511 | Industrial, Manufacturing, Printing & Publishing, NA, Fuel combustion, Natural gas_511000 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 322 | Industrial, Manufacturing, Pulp & Paper, Fugitives, Fugitive emissions, NA |
| 322 | Industrial, Manufacturing, Pulp & Paper, NA, Fuel combustion, Natural gas |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Clinker production, NA |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Biodiesel |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Biomass waste fuel |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Coal |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Distillate |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, LPG |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, MSW |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Natural gas |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Petroleum coke |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Renewable Diesel |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Residual fuel oil |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel combustion, Tires |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Cement, Fuel storage, Coal |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Flat Glass, Fuel combustion, Natural gas_327211 |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Flat Glass, Fuel combustion, Natural gas_327212 |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Glass Containers, Fuel combustion, Natural gas_327213 |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Glass Containers, Fuel combustion, Natural gas_327215 |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, Lime, Lime production, NA |
| 327 | Industrial, Manufacturing, Stone, Clay, Glass & Cement, NA, Fuel combustion, Natural gas |
| 31 | Industrial, Manufacturing, Storage Tanks, Fugitives, Fugitive emissions, NA |
| 315 | Industrial, Manufacturing, Textiles, Apparel, Fuel combustion, Natural gas_3152 |
| 315 | Industrial, Manufacturing, Textiles, Apparel, Fuel combustion, Natural gas_3159 |
| 315 | Industrial, Manufacturing, Textiles, Apparel, Fuel combustion, Natural gas_3151 |
| 315 | Industrial, Manufacturing, Textiles, Apparel, Fuel combustion, Natural gas_315000 |
| 316 | Industrial, Manufacturing, Textiles, Leather, Fuel combustion, Natural gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 313 | Industrial, Manufacturing, Textiles, Textile Mills, Fuel combustion, Natural gas_313 |
| 314 | Industrial, Manufacturing, Textiles, Textile Mills, Fuel combustion, Natural gas_314 |
| 312 | Industrial, Manufacturing, Tobacco, NA, Fuel combustion, Natural gas |
| 336 | Industrial, Manufacturing, Transportation Equip., NA, Fuel combustion, Natural gas |
| 31 | Industrial, Manufacturing, Wastewater Treatment, Fugitives, Fugitive emissions, NA |
| 337 | Industrial, Manufacturing, Wood & Furniture, Furniture & Fixtures, Fuel combustion, Natural gas |
| 321 | Industrial, Manufacturing, Wood & Furniture, Lumber & Wood Products, Fuel combustion, Natural gas |
| 212 | Industrial, Mining, Coal, NA, Fuel combustion, Natural gas_212112 |
| 212 | Industrial, Mining, Coal, NA, Fuel combustion, Natural gas_212111 |
| 212 | Industrial, Mining, Metals, NA, Fuel combustion, Natural gas_21229 |
| 212 | Industrial, Mining, Metals, NA, Fuel combustion, Natural gas_212210 |
| 212 | Industrial, Mining, Non Metals, NA, Fuel combustion, Natural gas |
| 31 | Industrial, Not Specified, Not Specified, Fugitives, Fugitive emissions, NA |
| 312 | Industrial, Not Specified, Not Specified, NA, CO2 consumption, NA |
| 31 | Industrial, Not Specified, Not Specified, NA, Fuel combustion, Other petroleum products |
| 31 | Industrial, Not Specified, Not Specified, NA, Fuel combustion, Wood (wet) |
| 31 | Industrial, Not Specified, Not Specified, NA, Fuel consumption, Lubricants |
| 11 | Industrial, Not Specified, Not Specified, NA, Limestone and dolomite consumption, NA_11 |
| 23 | Industrial, Not Specified, Not Specified, NA, Limestone and dolomite consumption, NA_23 |
| 32 | Industrial, Not Specified, Not Specified, NA, Limestone and dolomite consumption, NA_32 |
| 11 | Industrial, Not Specified, Not Specified, NA, Soda ash consumption, NA_11 |
| 23 | Industrial, Not Specified, Not Specified, NA, Soda ash consumption, NA_23 |
| 32 | Industrial, Not Specified, Not Specified, NA, Soda ash consumption, NA_32 |
| 31 | Industrial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Aerosols |
| 31 | Industrial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Fire Protection |
| 31 | Industrial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Foams |
| 31 | Industrial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Refrigeration and Air Conditioning |
| 31 | Industrial, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Solvents |
| 488 | Industrial, Off Road, Airport Ground Support Equipment, NA, Fuel combustion, Biodiesel |
| 488 | Industrial, Off Road, Airport Ground Support Equipment, NA, Fuel combustion, Distillate |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 488 | Industrial, Off Road, Airport Ground Support Equipment, NA, Fuel combustion, Renewable Diesel |
| 21 | Industrial, Off Road, Construction and Mining Equipment, NA, Fuel combustion, Biodiesel_21 |
| 23 | Industrial, Off Road, Construction and Mining Equipment, NA, Fuel combustion, Biodiesel_23 |
| 21 | Industrial, Off Road, Construction and Mining Equipment, NA, Fuel combustion, Distillate_21 |
| 23 | Industrial, Off Road, Construction and Mining Equipment, NA, Fuel combustion, Distillate_23 |
| 21 | Industrial, Off Road, Construction and Mining Equipment, NA, Fuel combustion, Renewable Diesel_21 |
| 23 | Industrial, Off Road, Construction and Mining Equipment, NA, Fuel combustion, Renewable Diesel_23 |
| 33 | Industrial, Off Road, Industrial Equipment, NA, Fuel combustion, Biodiesel |
| 33 | Industrial, Off Road, Industrial Equipment, NA, Fuel combustion, Distillate |
| 33 | Industrial, Off Road, Industrial Equipment, NA, Fuel combustion, Renewable Diesel |
| 213 | Industrial, Off Road, Oil Drilling Equipment, NA, Fuel combustion, Biodiesel |
| 213 | Industrial, Off Road, Oil Drilling Equipment, NA, Fuel combustion, Distillate |
| 213 | Industrial, Off Road, Oil Drilling Equipment, NA, Fuel combustion, Renewable Diesel |
| 211 | Industrial, Oil & Gas: Production & Processing, Not Specified, NA, Fuel combustion, Associated gas |
| 211 | Industrial, Oil & Gas: Production & Processing, Not Specified, NA, Fuel combustion, Biodiesel |
| 211 | Industrial, Oil & Gas: Production & Processing, Not Specified, NA, Fuel combustion, Distillate |
| 211 | Industrial, Oil & Gas: Production & Processing, Not Specified, NA, Fuel combustion, Natural gas_2111 |
| 213 | Industrial, Oil & Gas: Production & Processing, Not Specified, NA, Fuel combustion, Natural gas_2131 |
| 211 | Industrial, Oil & Gas: Production & Processing, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 211 | Industrial, Oil & Gas: Production & Processing, Not Specified, NA, Fuel combustion, Residual fuel oil |
| 211 | Industrial, Oil & Gas: Production & Processing, Processing, Fugitives, Fugitive emissions, NA |
| 211 | Industrial, Oil & Gas: Production & Processing, Production, Fugitives, Fugitive emissions, NA |
| 211 | Industrial, Oil & Gas: Production & Processing, Storage, Fugitives, Fugitive emissions, NA |
| 211 | Industrial, Oil & Gas: Production & Processing, Wastewater Treatment, Fugitives, Fugitive emissions, NA |
| 424 | Industrial, Petroleum Marketing, Process Losses, Fugitives, Fugitive emissions, NA |
| 424 | Industrial, Petroleum Marketing, Storage Tanks, Fugitives, Fugitive emissions, NA |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 424 | Industrial, Petroleum Marketing, Wastewater Treatment, Fugitives, Fugitive emissions, NA |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Acid gas control, NA |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Flaring, NA |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Associated gas |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Biodiesel |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Catalyst coke |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Digester gas |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Distillate |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Ethanol |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Gasoline |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, LPG |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Natural gas |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Petroleum coke |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Process gas |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Refinery gas |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Fuel combustion, Residual fuel oil |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Not Specified, NA, Process emissions, NA |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Process Losses, Fugitives, Fugitive emissions, NA |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Storage Tanks, Fugitives, Fugitive emissions, NA |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Transformation, NA, Fuel consumption, Natural gas |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Transformation, NA, Fuel consumption, Petroleum feedstocks |
| 324 | Industrial, Petroleum Refining and Hydrogen Production, Transformation, NA, Fuel consumption, Refinery gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 562 | Industrial, Solid Waste Treatment, Composting, NA, Feedstock processed, NA |
| 325 | Industrial, Solvents & Chemicals, Evaporative losses, Fugitives, Fugitive emissions, NA |
| 486 | Industrial, Transmission and Distribution, Natural Gas Pipelines, Fugitives, Fugitive emissions, NA |
| 221 | Industrial, Transmission and Distribution, Natural Gas Pipelines, NA, Fuel combustion, Natural gas |
| 221 | Industrial, Transmission and Distribution, Non Natural Gas Pipelines, NA, Fuel combustion, Natural gas |
| 221 | Industrial, Wastewater Treatment, Domestic Wastewater, Anaerobic Digesters, Biogas production, NA |
| 221 | Industrial, Wastewater Treatment, Domestic Wastewater, Centralized Anaerobic, California population, NA |
| 221 | Industrial, Wastewater Treatment, Domestic Wastewater, Effluent Emissions, California population, NA |
| 221 | Industrial, Wastewater Treatment, Domestic Wastewater, Plant Emissions, California population, NA |
| 221 | Industrial, Wastewater Treatment, Domestic Wastewater, Septic Systems, California population, NA |
| 311 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Apples |
| 311 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Citrus fruit |
| 311 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Non-citrus fruit |
| 311 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Other vegetables |
| 311 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Potatoes |
| 311 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Poultry |
| 322 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Pulp and Paper |
| 311 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Red meat |
| 312 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Production processed, Wine grapes |
| 324 | Industrial, Wastewater Treatment, Industrial Wastewater, NA, Wastewater flow, Petroleum Refining |
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, Biodiesel |
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, Coal |
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, Distillate |
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, Kerosene |
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, LPG |
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, Natural gas |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 814 | Residential, Household Use, Not Specified, NA, Fuel combustion, Wood (wet) |
| 814 | Residential, Household Use, Not Specified, NA, Fuel storage, Coal |
| 814 | Residential, Landscape, Fertilizer, Direct, Residential use of nitrogen fertilizer on turf, Synthetic fertilizers |
| 814 | Residential, Landscape, Fertilizer, Indirect, Residential use of nitrogen fertilizer on turf, Synthetic fertilizers |
| 814 | Residential, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Aerosols |
| 814 | Residential, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Foams |
| 814 | Residential, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Refrigeration and Air Conditioning |
| 486 | Residential, Transmission and Distribution, Natural Gas Pipelines, Fugitives, Fugitive emissions, NA |
| 481 | Transportation, Aviation, Domestic Air transport, Intrastate, Fuel combustion, Alternative Jet Fuel |
| 481 | Transportation, Aviation, Domestic Air transport, Intrastate, Fuel combustion, Jet fuel |
| 481 | Transportation, Aviation, Domestic Air transport, NA, Fuel combustion, Aviation gasoline |
| 481 | Transportation, Aviation, Not Specified, NA, Fuel combustion, Ethanol |
| 481 | Transportation, Aviation, Not Specified, NA, Fuel combustion, Gasoline |
| 48 | Transportation, Not Specified, Not Specified, NA, Fuel combustion, Biodiesel |
| 48 | Transportation, Not Specified, Not Specified, NA, Fuel combustion, Distillate |
| 48 | Transportation, Not Specified, Not Specified, NA, Fuel combustion, LPG |
| 48 | Transportation, Not Specified, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 48 | Transportation, Not Specified, Not Specified, NA, Fuel consumption, Lubricants |
| 48 | Transportation, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Aerosols |
| 48 | Transportation, Not Specified, Not Specified, NA, Use of substitutes for ozone depleting substances, Refrigeration and Air Conditioning |
| 485 | Transportation, On Road, Heavy-duty Vehicles, Buses, Fuel combustion, Biodiesel |
| 485 | Transportation, On Road, Heavy-duty Vehicles, Buses, Fuel combustion, Distillate |
| 485 | Transportation, On Road, Heavy-duty Vehicles, Buses, Fuel combustion, Ethanol |
| 485 | Transportation, On Road, Heavy-duty Vehicles, Buses, Fuel combustion, Gasoline |
| 485 | Transportation, On Road, Heavy-duty Vehicles, Buses, Fuel combustion, Renewable Diesel |
| 484 | Transportation, On Road, Heavy-duty Vehicles, Heavy-duty Trucks, Fuel combustion, Biodiesel |
| 484 | Transportation, On Road, Heavy-duty Vehicles, Heavy-duty Trucks, Fuel combustion, Distillate |
| 484 | Transportation, On Road, Heavy-duty Vehicles, Heavy-duty Trucks, Fuel combustion, Ethanol |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 484 | Transportation, On Road, Heavy-duty Vehicles, Heavy-duty Trucks, Fuel combustion, Gasoline |
| 484 | Transportation, On Road, Heavy-duty Vehicles, Heavy-duty Trucks, Fuel combustion, Renewable Diesel |
| F01000 | Transportation, On Road, Heavy-duty Vehicles, Motorhomes, Fuel combustion, Biodiesel |
| F01000 | Transportation, On Road, Heavy-duty Vehicles, Motorhomes, Fuel combustion, Distillate |
| F01000 | Transportation, On Road, Heavy-duty Vehicles, Motorhomes, Fuel combustion, Ethanol |
| F01000 | Transportation, On Road, Heavy-duty Vehicles, Motorhomes, Fuel combustion, Gasoline |
| F01000 | Transportation, On Road, Heavy-duty Vehicles, Motorhomes, Fuel combustion, Renewable Diesel |
| F01000 | Transportation, On Road, Light-duty Vehicles, Light-duty Trucks & SUVs, Fuel combustion, Biodiesel |
| F01000 | Transportation, On Road, Light-duty Vehicles, Light-duty Trucks & SUVs, Fuel combustion, Distillate |
| F01000 | Transportation, On Road, Light-duty Vehicles, Light-duty Trucks & SUVs, Fuel combustion, Ethanol |
| F01000 | Transportation, On Road, Light-duty Vehicles, Light-duty Trucks & SUVs, Fuel combustion, Gasoline |
| F01000 | Transportation, On Road, Light-duty Vehicles, Light-duty Trucks & SUVs, Fuel combustion, Renewable Diesel |
| F01000 | Transportation, On Road, Light-duty Vehicles, Motorcycles, Fuel combustion, Ethanol |
| F01000 | Transportation, On Road, Light-duty Vehicles, Motorcycles, Fuel combustion, Gasoline |
| F01000 | Transportation, On Road, Light-duty Vehicles, Passenger Cars, Fuel combustion, Biodiesel |
| F01000 | Transportation, On Road, Light-duty Vehicles, Passenger Cars, Fuel combustion, Distillate |
| F01000 | Transportation, On Road, Light-duty Vehicles, Passenger Cars, Fuel combustion, Ethanol |
| F01000 | Transportation, On Road, Light-duty Vehicles, Passenger Cars, Fuel combustion, Gasoline |
| F01000 | Transportation, On Road, Light-duty Vehicles, Passenger Cars, Fuel combustion, Renewable Diesel |
| 48 | Transportation, On Road, Not Specified, NA, Fuel combustion, Biomethane |
| 48 | Transportation, On Road, Not Specified, NA, Fuel combustion, Natural gas |
| 482 | Transportation, Rail, Not Specified, NA, Fuel combustion, Biodiesel |
| 482 | Transportation, Rail, Not Specified, NA, Fuel combustion, Distillate |
| 482 | Transportation, Rail, Not Specified, NA, Fuel combustion, Renewable Diesel |
| 483 | Transportation, Water-borne, International, Port activities, Fuel combustion, Distillate |
| 483 | Transportation, Water-borne, International, Port activities, Fuel combustion, Residual fuel oil |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 483 | Transportation, Water-borne, International, Transit (CA waters), Fuel combustion, Distillate |
| 483 | Transportation, Water-borne, International, Transit (CA waters), Fuel combustion, Residual fuel oil |
| 483 | Transportation, Water-borne, Interstate, Port activities, Fuel combustion, Distillate |
| 483 | Transportation, Water-borne, Interstate, Port activities, Fuel combustion, Residual fuel oil |
| 483 | Transportation, Water-borne, Interstate, Transit (CA waters), Fuel combustion, Distillate |
| 483 | Transportation, Water-borne, Interstate, Transit (CA waters), Fuel combustion, Residual fuel oil |
| 483 | Transportation, Water-borne, Intrastate, Harbor craft, Fuel combustion, Biodiesel |
| 483 | Transportation, Water-borne, Intrastate, Harbor craft, Fuel combustion, Distillate |
| 483 | Transportation, Water-borne, Intrastate, Harbor craft, Fuel combustion, Renewable Diesel |
| 483 | Transportation, Water-borne, Intrastate, Port activities, Fuel combustion, Distillate |
| 483 | Transportation, Water-borne, Intrastate, Port activities, Fuel combustion, Residual fuel oil |
| 483 | Transportation, Water-borne, Intrastate, Transit (CA waters), Fuel combustion, Distillate |
| 483 | Transportation, Water-borne, Intrastate, Transit (CA waters), Fuel combustion, Residual fuel oil |
| 483 | Transportation, Water-borne, Not Specified, NA, Fuel combustion, Ethanol |
| 483 | Transportation, Water-borne, Not Specified, NA, Fuel combustion, Gasoline |
| 71 | Commercial, Not Specified, Not Specified, NA, Fuel combustion, Natural gas_7 |
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biodiesel_3250 |
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomass_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomass_3250 |
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomethane_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Biomethane_3250 |
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Digester gas_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Digester gas_3250 |
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Distillate_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Distillate_3250 |

| Sector | Activity Description from CARB GHG Emissions Inventory |
|---|---|
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Propane_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Propane_3250 |
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel combustion, Renewable Diesel_3250 |
| 213 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel storage, Coal_2134 |
| 325 | Industrial, CHP: Industrial, Useful Thermal Output, NA, Fuel storage, Coal_3250 |