

California Bioresources Economy Summit

Session 7

Effective Governance & Stewardship

**Environmental Justice
Perspective**



*By Nayamin Martinez, Director
Central California Environmental Justice Network*

OVERVIEW

- Central California Environmental Justice Network
- Environmental Justice in the San Joaquin Valley (SJV)
- Biomass & EJ Communities
- *Ways to achieve success & equity*

Our Vision

- Central California Environmental Justice Network, led by diverse local people and working with other networks globally will end ***environmental racism*** and achieve ***economic justice*** through sustainable regional solutions.



Our Mission

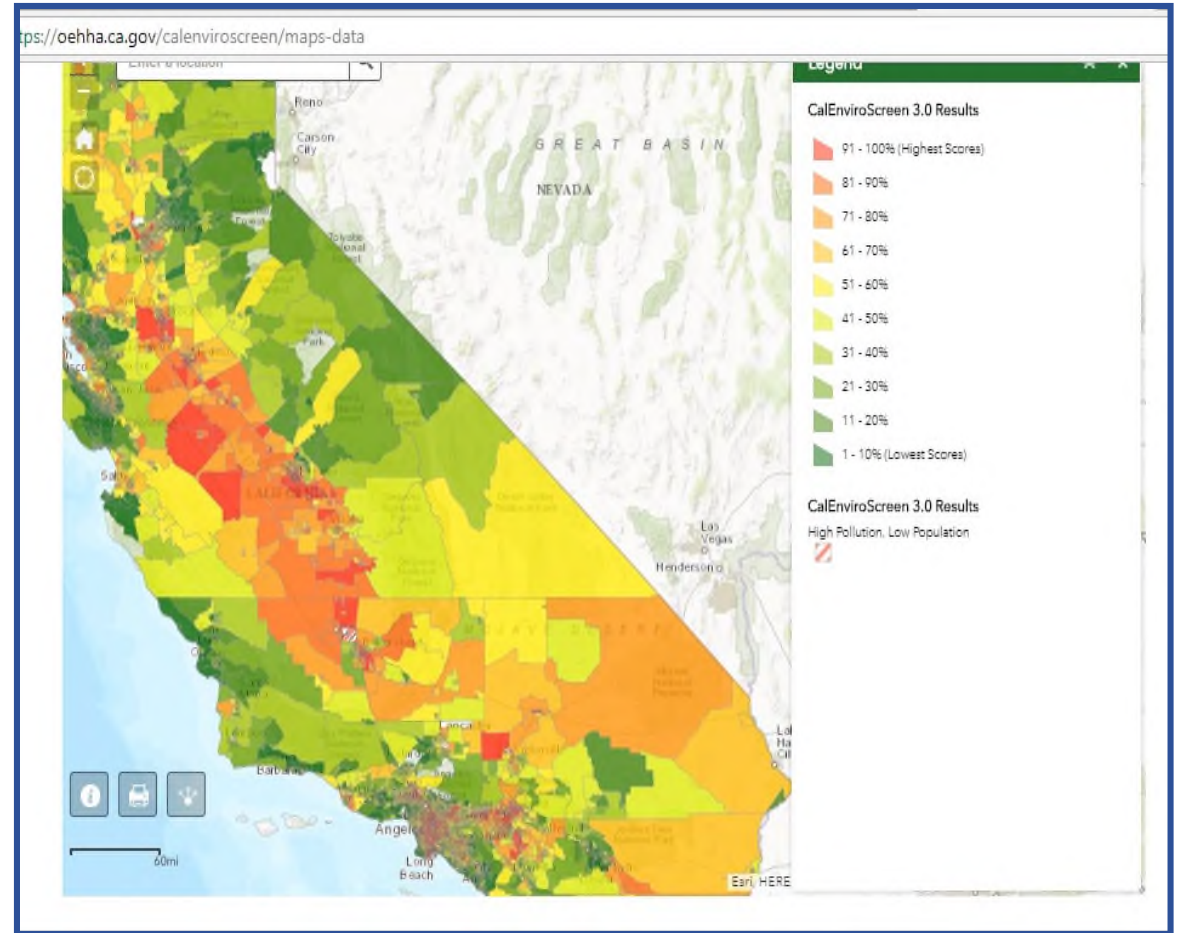
- Our goals are to preserve our natural resources now and in the future, by seeking better ways to minimize or eliminate environmental degradation in Central Valley communities. This is crucial because rural communities in California's Central Valley suffer a disproportionate amount of negative health, social and financial impacts.



The San Joaquin Valley

*“Place of contradictions. It contains the most productive and wealth-generating **agricultural lands** on the planet. At the same time, many of the people who produce this bounty live in poverty and often face health risks due to toxic by-products of the region’s economy.”*

London, J. et al. (2011) Land of Risk/Land of Opportunity. UC Davis Center for regional Change



“Environmental Justice”



The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies.

STATE OF THE AIR 2016

-
- 1 Bakersfield, CA

 - 2 Fresno-Madera, CA

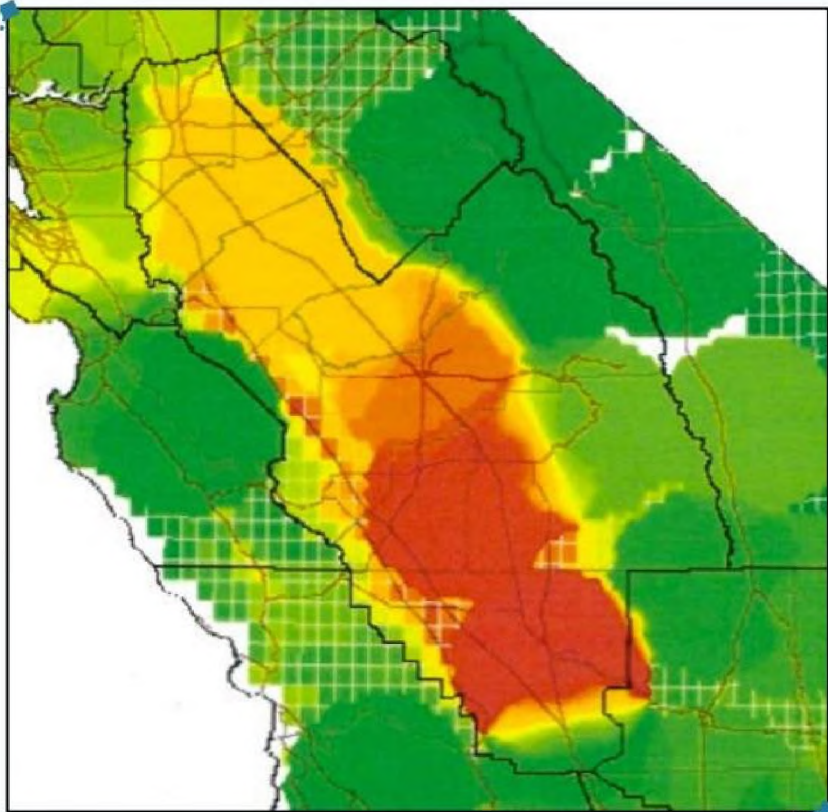
 - 3 Visalia-Porterville-Hanford, CA

 - 4 Modesto-Merced, CA

 - 5 Fairbanks, AK



**AMERICAN
LUNG
ASSOCIATION®**



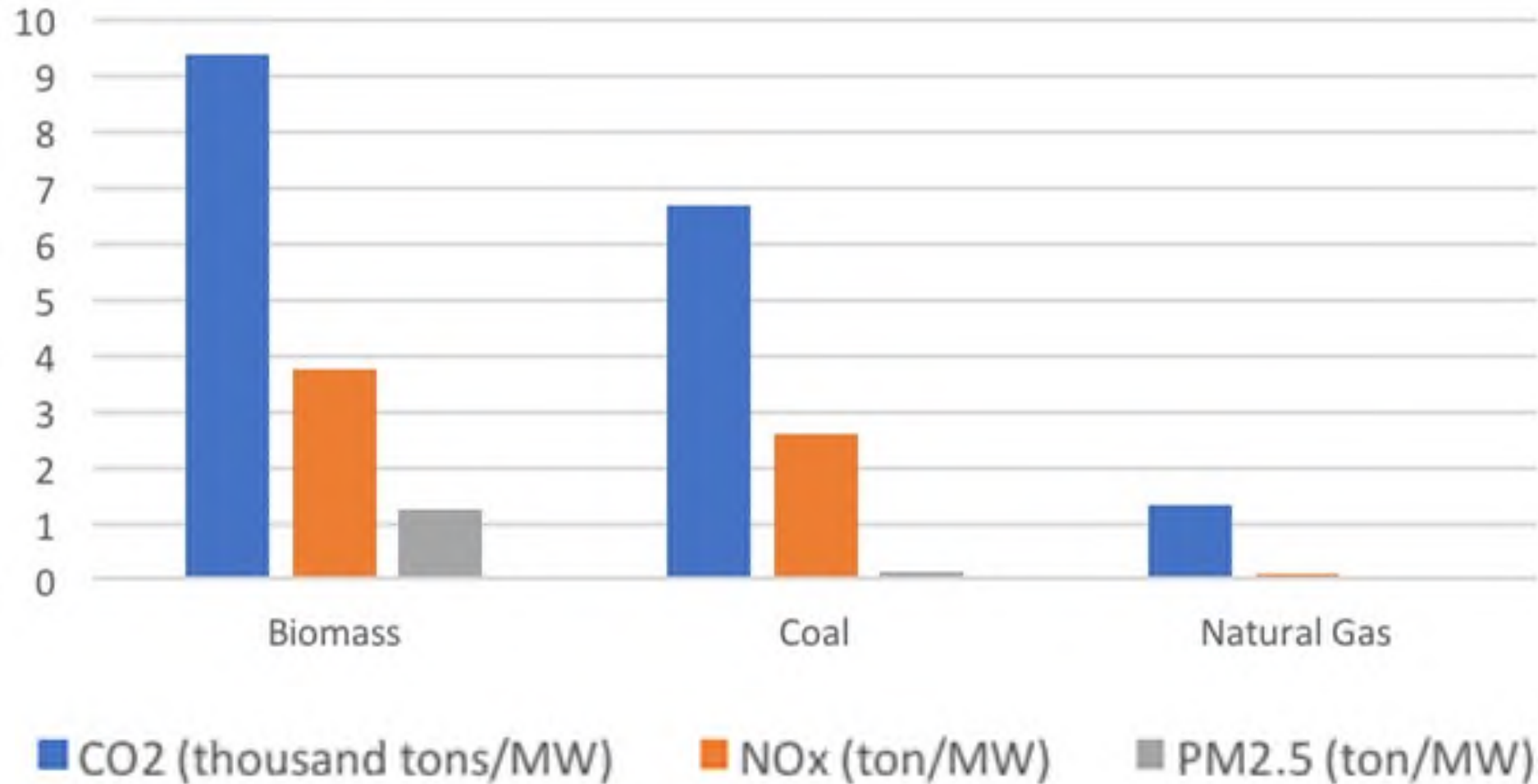
An aerial photograph of an industrial and residential area. The image shows several large industrial buildings with white roofs, parking lots, and roads. A residential neighborhood with houses and streets is visible in the lower-left quadrant. A blue rectangular box is overlaid in the center, containing white text. The text reads "Biomass Incineration" in a large serif font, and "Energy Producers & Threat to Public Health" in a smaller serif font below it. The background image includes labels for "SA Recycling", "ate Blvd", and "Truck Stop".

Biomass Incineration

Energy Producers & Threat to Public Health

Emissions

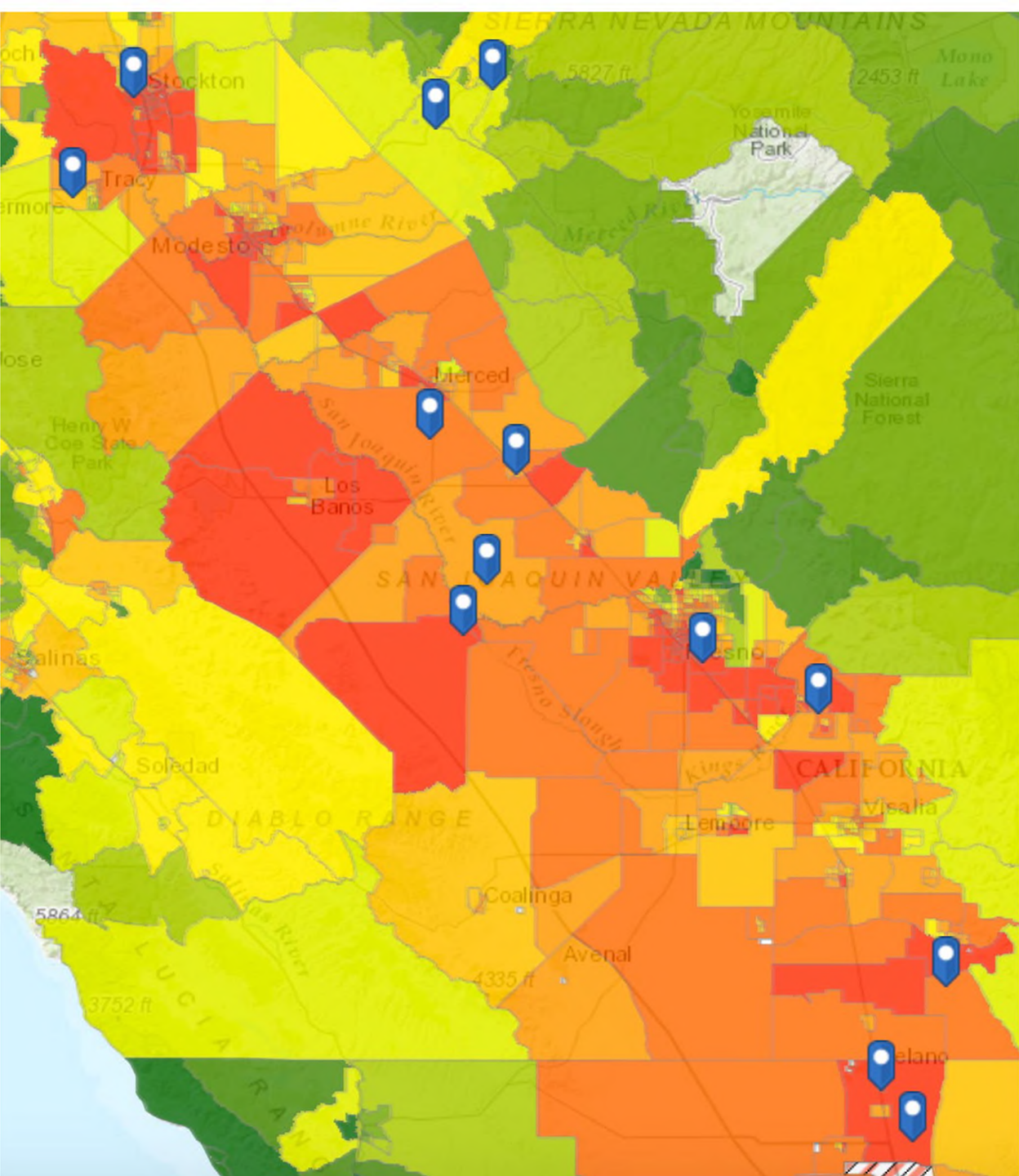
Per Megawatt of Energy Produced

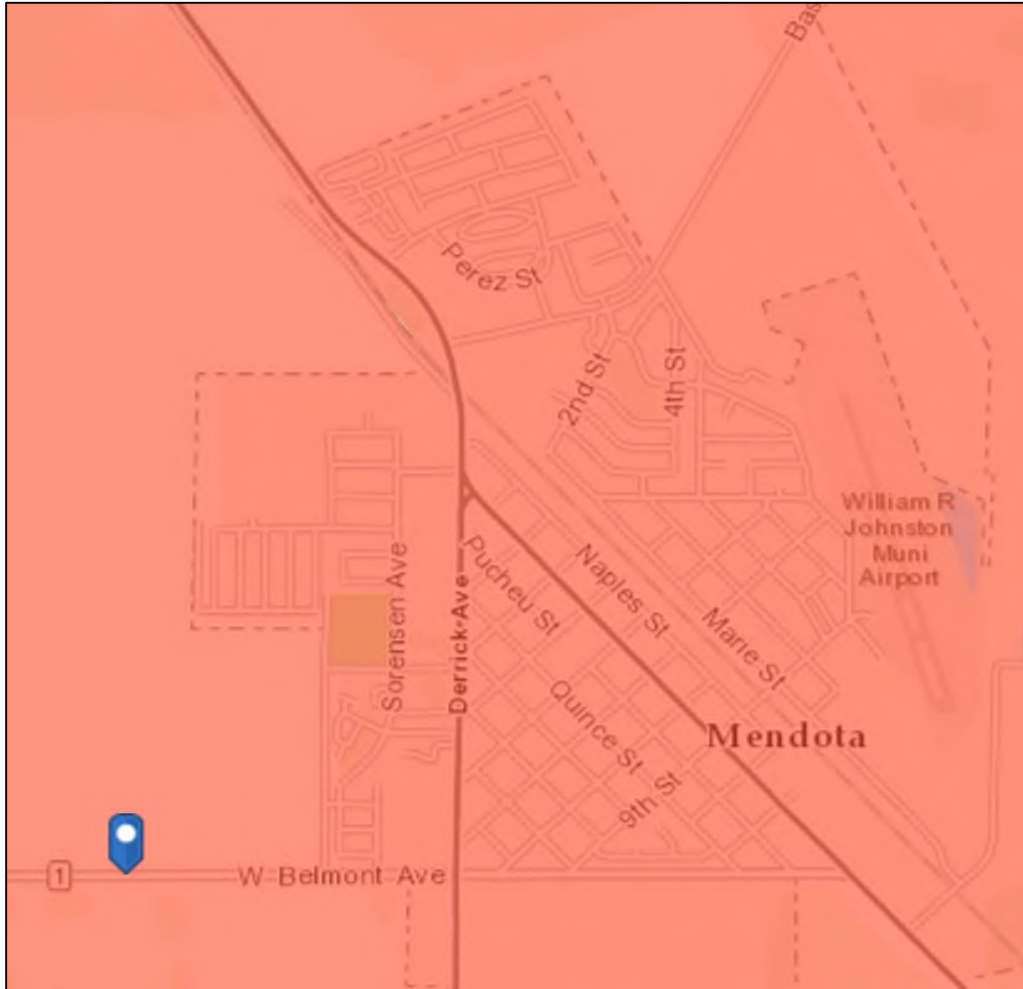


Top Stationary Sources of Direct PM2.5

San Joaquin Valley Air Basin (2015)

| | | Tons Per Year | | | |
|--------------|-------------------------------|---------------|-------|-------|-------|
| COMPANY NAME | CO | NOX | SOX | PM2.5 | |
| | CHEVRON USA INC* | 238.9 | 355 | 119 | 552 |
| | LINN OPERATING, INC* | 282.8 | 244.2 | 68.8 | 121.2 |
| | AERA ENERGY LLC* | 150.4 | 407.7 | 29 | 111.1 |
| | FREEPORT-MC MORAN OIL & GAS | 54.5 | 88.5 | 84.9 | 78 |
| 5 | ELK HILLS POWER LLC | 2.7 | 37.1 | 51.2 | 63.5 |
| | SUNRISE POWER COMPANY | 12.3 | 47.2 | 5.6 | 58.5 |
| | CERTAINTED CORPORATION | 66.5 | 77.5 | 12.5 | 57.3 |
| | CA RESOURCES PRODUCTION* | 876.1 | 280.3 | 30.8 | 52.4 |
| | WALNUT ENERGY CENTER AUTHOR | 3.8 | 41.4 | 3.9 | 44.7 |
| 10 | LA PALOMA GENERATING CO LLC | 30.9 | 116.7 | 11.7 | 38.9 |
| | RIO BRAVO FRESNO | 1.5 | 100.7 | 0.5 | 36.7 |
| | PASTORIA ENERGY FACILITY, LLC | 19.8 | 103.5 | 10.2 | 33.1 |
| | COVANTA DELANO INC | 142.7 | 294.3 | 32.6 | 29.9 |
| | SYCAMORE COGENERATION CO | 157.2 | 96.7 | 3.2 | 26.5 |
| 15 | NORTHERN CALIFORNIA POWER | 36.3 | 30.6 | 3.6 | 25.2 |
| | ARDAGH GLASS INC | 4.9 | 139.9 | 30.8 | 21.2 |
| | PPG INDUSTRIES | 0.4 | 340.4 | 52 | 18.4 |
| | KERN RIVER COGENERATION CO | 62.4 | 53.3 | 1 | 17.3 |
| | STEWART & JASPER | 0 | 0 | 0 | 16.5 |
| 20 | PANOCHÉ ENERGY CENTER LLC | 17 | 36.6 | 1.1 | 16.1 |
| | NAS LEMOORE | 68.3 | 50.7 | 6.4 | 15 |
| | ALON BAKERSFIELD REFINING | 16.1 | 7.4 | 0.15 | 14.8 |
| | MB TECHNOLOGY | 0 | 0 | 0 | 14.7 |
| | FOSTER FOOD PRODUCTS | 12.7 | 4.9 | 4.4 | 12.2 |
| 25 | COVANTA STANISLAUS, INC | 20.3 | 305.5 | 19.1 | 11.7 |
| | GUARDIAN INDUSTRIES CORP | 33.7 | 309.4 | 144.2 | 11.6 |
| | NESTLE PURINA PETCARE COMPANY | 1.4 | 0.5 | 0.5 | 11.5 |
| | MT POSO COGENERATION COMPAN | 7.8 | 137.4 | 2.1 | 10.6 |
| | CALAVERAS MATERIALS INC. | 5.3 | 1.7 | 0.3 | 10.2 |
| 30 | DTE STOCKTON, LLC | 113.6 | 95.8 | 1.9 | 10.2 |
| | MODESTO IRRIGATION DISTRICT | 15.9 | 17.7 | 1.4 | 10 |



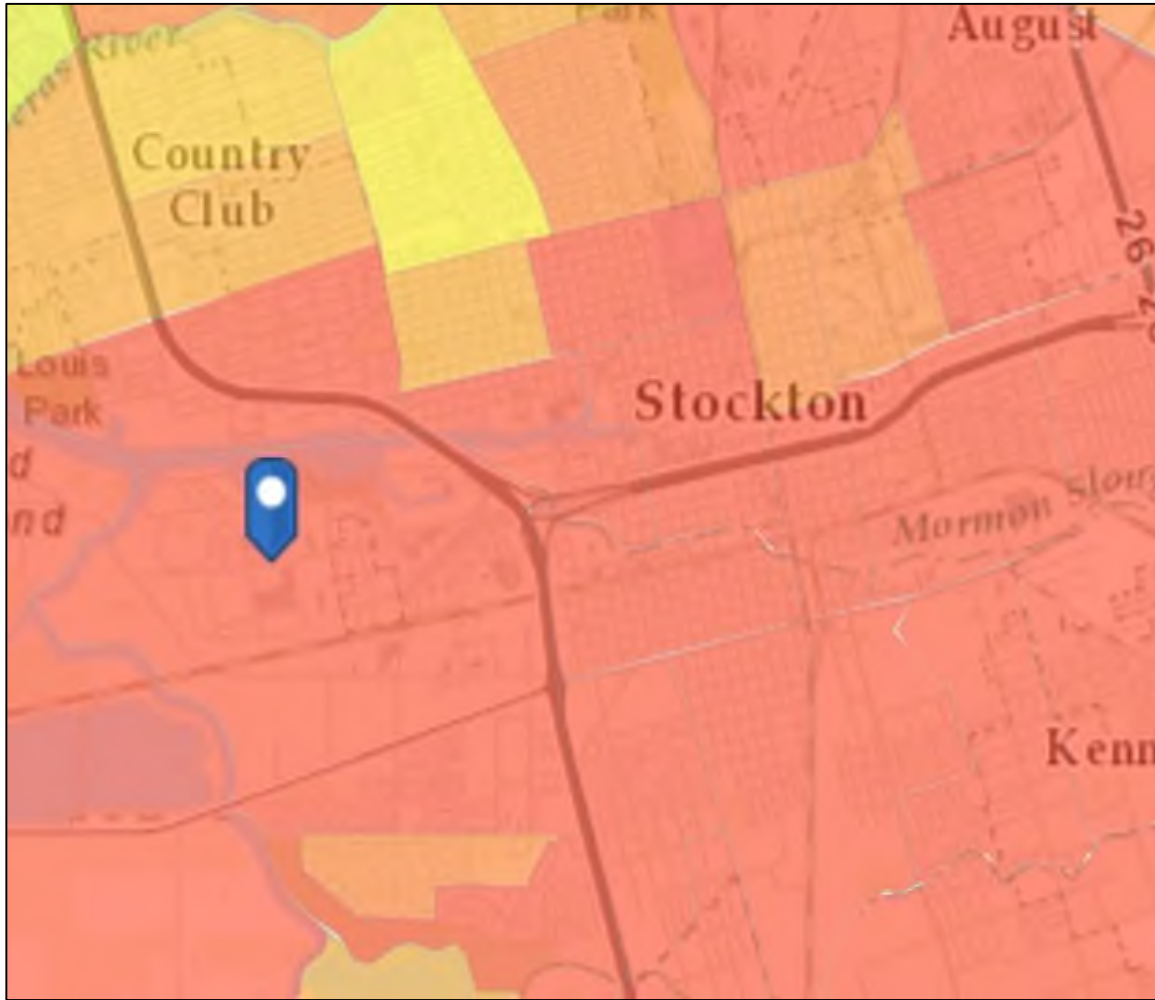


Covanta Mendota (idle)
Mendota, Fresno County
25 MWs Biomass Facility
Emits 84.3 tons PM2.5/year (2014)

Census Tract: 6019008302

City of Mendota

| | |
|---|------------------|
| Population: | 6,562 |
| CalEnviroScreen 3.0 Percentile: | 96 - 100% |
| Pollution Burden Percentile: | 73 |
| Population Characteristics Percentile: | 99 |
| Ozone: | 78 |
| PM 2.5: | 84 |
| Asthma: | 88 |
| Low Birth Weight: | 71 |
| Cardiovascular Rate: | 93 |

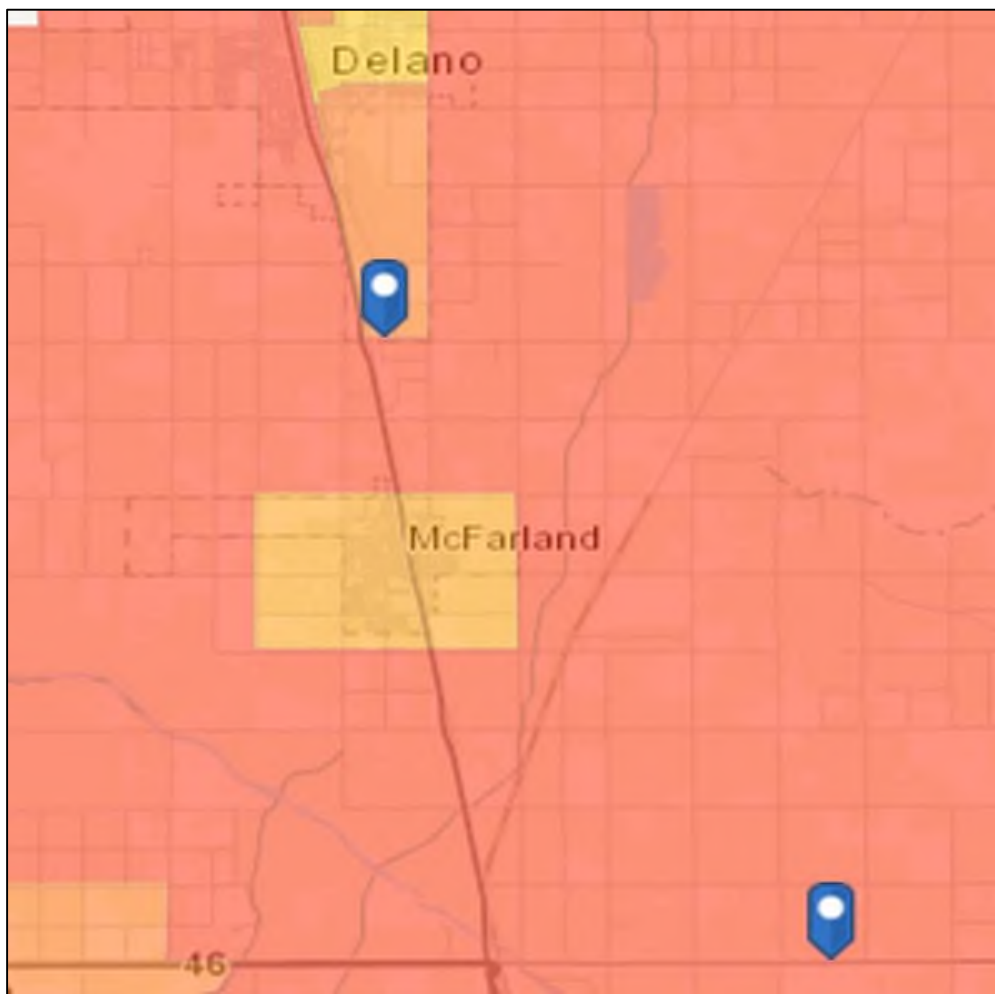


DTE Stockton (active)
 Stockton, Stanislaus County
 45 MWs Biomass Facility
 Emits 10.2 tons PM2.5/year (2015)

Census Tract: 6077000801

Port of Stockton

| | |
|---|--------------|
| Population: | 6,692 |
| CalEnviroScreen 3.0 Percentile: | 96 - 100% |
| Pollution Burden Percentile: | 100 |
| Population Characteristics Percentile: | 98 |
| Ozone: | 53 |
| PM 2.5: | 84 |
| Asthma: | 98 |
| Low Birth Weight: | 81 |
| Cardiovascular Rate: | 97 |



Census Tract: 6029004604

Areas surrounding

Delano and McFarland

| | |
|---|-----------|
| Population: | 15,845 |
| CalEnviroScreen 3.0 Percentile: | 96 - 100% |
| Pollution Burden Percentile: | 92 |
| Population Characteristics Percentile: | 90 |
| Ozone: | 91 |
| PM 2.5: | 99 |
| Asthma: | 60 |
| Low Birth Weight: | 85 |
| Cardiovascular Rate: | 72 |

Covanta Delano (idle)

Delano, Kern County

49 MWs Biomass Facility

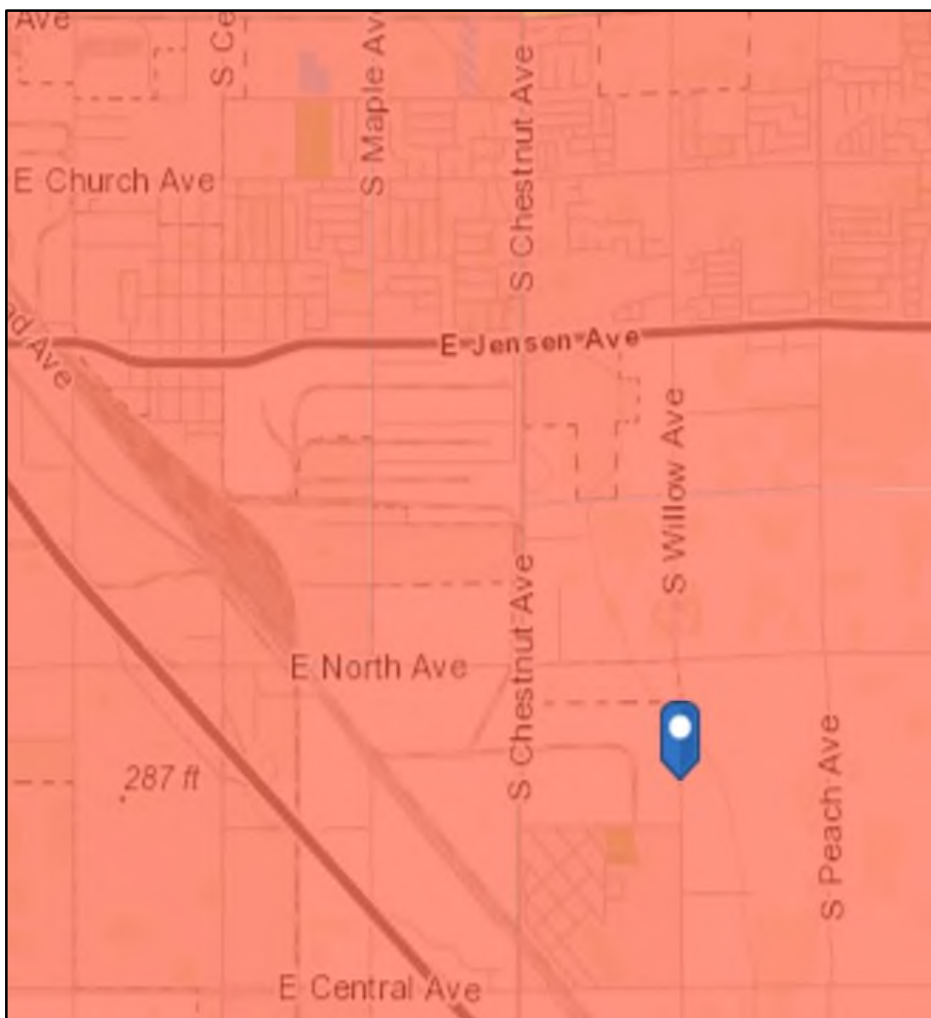
Emits 49.2 tons PM_{2.5}/year (2014)

Mt. Poso Cogeneration (active)

Bakersfield, Kern County

45 MWs Biomass Facility

Emits 10.6 tons PM_{2.5}/year (2015)



Rio Bravo Fresno (active)

Fresno, Fresno County

25 MWs Biomass Facility

Emits 36.7 tons PM2.5/year (2015)

| Census Tract: 6019001500 | |
|---|------------------|
| Community of Malaga | |
| Population: | 2,206 |
| CalEnviroScreen 3.0 Percentile: | 96 - 100% |
| Pollution Burden Percentile: | 100 |
| Population Characteristics Percentile: | 93 |
| Ozone: | 98 |
| PM 2.5: | 97 |
| Asthma: | 90 |
| Low Birth Weight: | 39 |
| Cardiovascular Rate: | 92 |



S Chestnut Ave

S Willow Ave

Malaga

SA Recycling

ate Blvd

l Truck Stop

Achieving Success in Equity and Access

- Do a comprehensive analysis of the environmental impact of biomass facilities and other sources of “clean energy”
- Consult & engage communities before permitting these facilities
- Integrate across programs and agencies to ensure complementary policies provide maximum benefits to disadvantaged communities
- Two concrete opportunities:
 - AB 617
 - Community Benefits Agreement

Example: Community Benefits Agreement

A Community Benefits Agreement is a contract signed by community groups and a developer/project manager that requires the developer to provide specific **amenities and/or mitigations** to the local community or neighborhood. In exchange, the community groups agree to publicly support the project, or at least not oppose it.

GROUNDBREAKING GOOD NEIGHBOR AGREEMENT REACHED BETWEEN RECOLOGY AND KERN COUNTY COMMUNITY GROUPS

***Local Community Groups Reach Historic Agreement with Recology to Modernize Operations
and Abatement Programs, and to Partner on Local Community Projects***

Lamont, CA – Yesterday community groups in Arvin and Lamont reached an agreement with Recology over the company’s new operation of Recology Blossom Valley Organics – South, a large composting facility outside of Lamont. The agreement will bring significant economic and environmental benefits to a region that has been over-burdened by pollution for decades. This agreement marks nearly a decade of work by local residents to curb pollution and odors from the previous owner’s operation of the facility, and will provide some immediate relief to residents living near the mega-composting facility. The agreement will ensure the operation is safe, protects public health, and also makes significant financial investments in the community.