

# Climate Heat Impact Response Program (CHIRP)

Board of Directors  
Santa Barbara County  
Air Pollution Control District

Our Mission: To protect the people and the environment  
of Santa Barbara County from the effects of air pollution.

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Executive Director / Air Pollution Control Officer

Mike McKay  
Air Quality Specialist

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@OurAirSBC  



# Extreme Heat Events

## ▶ 2021: July 09 to July 10

- ▶ Death Valley (130° F - one of highest ever recorded)
- ▶ Palm Springs (120° F)
- ▶ Redding (114° F) & Paso Robles (114° F)
- ▶ Bishop (110° F+ four consecutive days, longest since 1943)

## ▶ 2022: August 31 to September 09

- ▶ Death Valley (127° F - global September record)
- ▶ Sacramento (116° F - all time high)

# Extreme Heat Response

## ▶ 2021 event

▶ \$370,375

- ▶ Allocated to Feather River and Placer County Air Districts
- ▶ Emissions from operations without latest NOx controls due to supply chain delays in Roseville and Yuba City

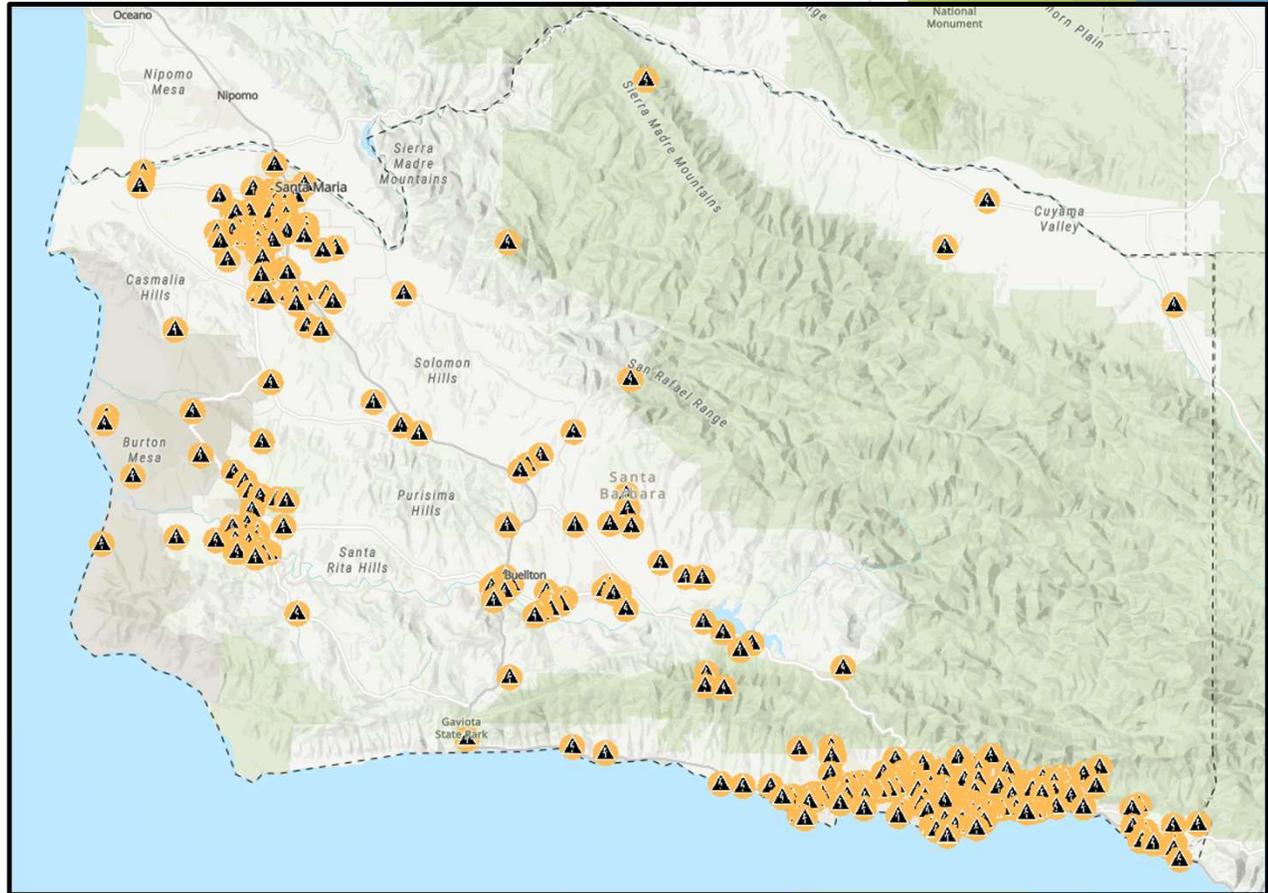
## ▶ 2022 event

▶ \$22,692,308

- ▶ Diesel backup generators & Ports - ships at berth forgoing shore power
- ▶ Funds allocated to 24 air districts

# Diesel Backup Generators Countywide

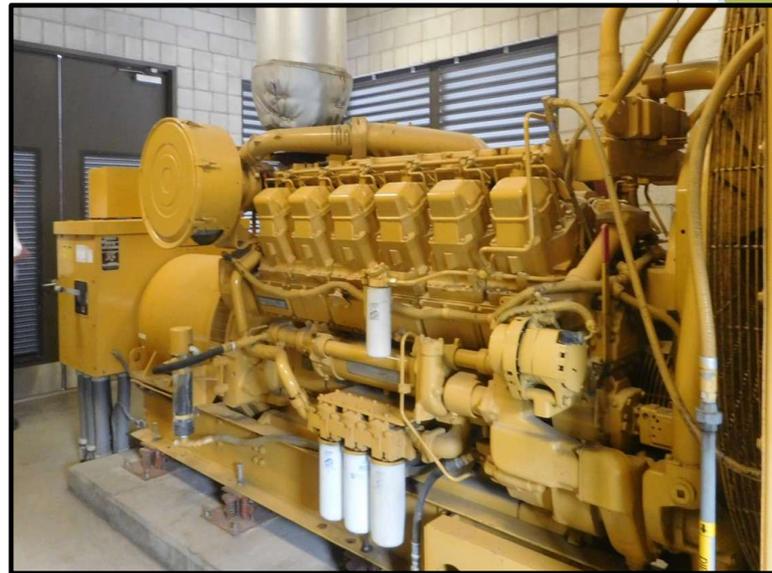
- ▶ ~730 permitted emergency diesel generators
- ▶ Stationary Source Emissions:
  - ▶ 19% of all diesel particulate matter
  - ▶ 9% of all NO<sub>x</sub>
- ▶ <https://map.ourair.org>



# Diesel Backup Generators



Golden State Water  
Tier 2 @ 758bhp



Carpinteria Sanitary District  
Tier 0 @ 1,482bhp

# CHIRP Allocation Tables

## Original Proposal

Air District	Final Allocation	Administration Allocation	Project Allocation
Bay Area	\$ 10,193,721	\$ 1,274,214	\$ 8,919,507
South Coast	\$ 6,064,037	\$ 758,004	\$ 5,306,033
Sac Metro	\$ 2,718,615	\$ 339,826	\$ 2,378,788
Mojave Desert	\$ 1,456,802	\$ 218,521	\$ 1,238,282
San Joaquin	\$ 630,751	\$ 78,844	\$ 551,907
Ventura	\$ 556,748	\$ 83,513	\$ 473,235
Shasta	\$ 429,186	\$ 64,378	\$ 364,808
Yolo-Solano	\$ 119,827	\$ 17,974	\$ 101,853
Great Basin	\$ 114,635	\$ 17,196	\$ 97,440
Lake	\$ 97,066	\$ 14,558	\$ 82,509
Santa Barbara	\$ 75,377	\$ 11,306	\$ 64,070
Butte	\$ 70,486	\$ 10,573	\$ 59,913
San Diego	\$ 45,895	\$ 5,737	\$ 40,158
North Coast	\$ 42,731	\$ 6,410	\$ 36,321
San Luis Obispo	\$ 18,885	\$ 2,833	\$ 16,052
Monterey Bay	\$ 18,758	\$ 2,814	\$ 15,944
Imperial	\$ 16,449	\$ 2,467	\$ 13,982
Glenn	\$ 15,450	\$ 2,318	\$ 13,133
Antelope Valley	\$ 6,020	\$ 752	\$ 5,267
Northern Sierra	\$ 351	\$ 53	\$ 299
Siskiyou	\$ 263	\$ 39	\$ 224
Lassen	\$ 158	\$ 24	\$ 135
Modoc	\$ 80	\$ 12	\$ 68
El Dorado	\$ 16	\$ 2	\$ 14
<b>Total</b>	<b>\$ 22,692,308</b>	<b>\$ 2,912,368</b>	<b>\$ 19,779,941</b>

## Final Proposal

Air District	Final Allocation	Administration Allocation	Project Allocation
South Coast	\$ 6,225,395	\$ 778,174	\$ 5,447,221
Bay Area	\$ 4,335,668	\$ 541,958	\$ 3,793,709
San Joaquin	\$ 2,976,062	\$ 372,008	\$ 2,604,054
Sac Metro	\$ 1,947,035	\$ 243,379	\$ 1,703,656
Placer	\$ 1,129,675	\$ 169,451	\$ 960,224
San Diego	\$ 823,939	\$ 102,992	\$ 720,946
Mojave Desert	\$ 765,945	\$ 114,892	\$ 651,053
Feather River	\$ 685,278	\$ 102,792	\$ 582,487
Yolo-Solano	\$ 652,109	\$ 97,816	\$ 554,293
Antelope Valley	\$ 645,978	\$ 80,747	\$ 565,226
Santa Barbara	\$ 490,834	\$ 73,625	\$ 417,209
Ventura	\$ 469,378	\$ 70,406	\$ 398,965
Shasta	\$ 298,012	\$ 44,702	\$ 253,310
Butte	\$ 277,910	\$ 41,687	\$ 236,224
Monterey Bay	\$ 165,325	\$ 24,799	\$ 140,526
El Dorado	\$ 158,169	\$ 23,725	\$ 134,444
Imperial	\$ 147,242	\$ 22,086	\$ 125,156
San Luis Obispo	\$ 146,484	\$ 21,973	\$ 124,511
Northern Sierra	\$ 121,630	\$ 18,244	\$ 103,385
Glenn	\$ 120,338	\$ 18,051	\$ 102,287
Great Basin Unific	\$ 39,399	\$ 5,910	\$ 33,489
Siskiyou	\$ 26,413	\$ 3,962	\$ 22,451
Lassen	\$ 23,897	\$ 3,584	\$ 20,312
Modoc	\$ 20,208	\$ 3,031	\$ 17,177
<b>Total</b>	<b>\$ 22,692,308</b>	<b>\$ 2,979,994</b>	<b>\$ 19,712,314</b>

# Diesel Backup Generator Eligibility

- ▶ **2024 Community Air Protection Guidelines: Chapter 11**
  - ▶ Scrap and replace emergency stationary diesel backup generators with cleanest available technology with emphasis on zero-emission technology
    - ▶ Baseline: Tier 0/1/2
    - ▶ Replacement: Tier 4 Final or Zero-Emission
    - ▶ Maximum funding:
      - ▶ 85% for Tier 4 final
      - ▶ 95% for zero-emission
  - ▶ Project life: 3-10 years
  - ▶ Not subject to cost-effectiveness

# STAFF RECOMMENDATIONS

## ▶ CHIRP

- ▶ \$490,834
  - ▶ \$73,625 (15% administration)
  - ▶ \$417,209 (85% projects)

## ▶ CLEAN AIR FUND

- ▶ \$400,000
- ▶ Program launch to coincide with 2026 Clean Air Grant Program



<https://www.eo-dev.com/products/geh2-the-zero-emission-hydrogen-power-generator/>

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