

To learn more about California's opportunity to combat global warming while simultaneously improving air quality and public health through implementation of the California Global Warming Solutions Act (AB 32), please read the full NRDC issue paper *Boosting the Benefits* at www.nrdc.org/policy.

Boosting the Benefits
Appendix B
California Power Plants, Petroleum Refineries,
and Cement Kilns Included in Maps

Power Plants					
Name	City	CO₂ (2007) (tons)	NO_x (2005) (tons)	PM (2005) (tons)	Combined Health Risk Benchmark
ACE COGENERATION CO.	Trona	990,509	293.11	57.30	0.89
AES ALAMITOS	Long Beach	1,989,822	44.66	24.15	3.52
AES DELANO INC	Delano	0	139.54	55.42	1.89
AES HUNTINGTON BEACH	Huntington Beach	1,389,219	34.31	15.36	2.27
AES MENDOTA, L.P.	Mendota	0	69.85	64.18	2.10
AES PLACERITA	Newhall	40,413	11.97	0.31	0.10
ALMOND	Modesto	65,680			
BADGER CREEK	Bakersfield	189,847			
BEAR MOUNTAIN (CA)	Bakersfield	196,601			
BLYTHE-1	Blythe	567,393	1.29	0.09	0.02
BROADWAY (CA)	Pasadena	50,781			
CABRILLO I	Carlsbad	2,040,105	126.52	109.20	8.57
CALPEAK PANOCHÉ	Firebaugh	3,738	0.25	0.06	0.00
CALPINE KING CITY COGEN	King City	115,162			
CALPINE PITTSBURG	Pittsburg	163,452	19.17	7.10	0.51
CARDINAL COGEN	Stanford	231,215	109.40	25.20	1.86
CARSON COGEN	Carson	408,270	13.71	7.33	1.07
CARSON ICE-GEN	Elk Grove	319,698			
COACHELLA	Coachella	3,538	19.50	0.43	0.16
COLMAC ENERGY INC	Mecca	0	190.33	2.44	1.32
CONTRA COSTA	Antioch	478,415	26.18	5.29	0.39
COOL WATER	Daggett	277,823	200.45	15.83	0.37
CORONA 3M	Corona	2,342	11.21	9.91	1.41
CROCKETT COGEN	Crockett	674,149	24.20	83.10	5.80
DELTA ENERGY	Pittsburg	2,417,681	185.30	95.10	6.79
DONALD VON RAESFELD	Santa Clara	137,949	57.50	5.40	0.43
DOUBLE C	Bakersfield	222,401			
EL CENTRO	El Centro	303,814	244.20	30.90	2.19
EL SEGUNDO	El Segundo	326,155	31.22	29.42	4.17
ELK HILLS POWER	Tupman	1,765,732	10.12	0.78	0.03
ELLWOOD	Goleta	34,137			
ETIWANDA	Rancho Cucamonga	583,747	34.29	8.92	1.39
FAIRHAVEN POWER COMPANY	Samoa	3,766	109.20	44.70	0.48
FOSTER WHEELER MARTINEZ	Martinez	506,850	176.40	15.90	1.28

Name	City	CO ₂ (2007) (tons)	NO _x (2005) (tons)	PM (2005) (tons)	Combined Health Risk Benchmark
GILROY ENERGY	Gilroy	39,892	32.06	11.63	0.84
GILROY FOODS	Gilroy	779	75.20	5.60	0.46
GLENARM	Pasadena	32,679	9.55	4.04	0.60
GOAL LINE	Escondido	167,419	18.57	14.58	1.15
GRAYSON	Glendale	184,017	39.64	3.53	0.69
GREENLEAF-1	Yuba City	315,860	143.53	14.02	0.76
GREENLEAF-2 (Calpine Greenleaf)	Yuba City	10,489	32.06	11.63	0.54
HANFORD ENERGY PARK	Hanford	6,539	35.26	8.26	0.30
HARBOR	Wilmington	196,597	23.67	0.85	0.24
HARBOR COGEN	Wilmington	38,060	11.97	0.00	0.06
HAYNES	Long Beach	1,957,786	92.75	47.37	6.94
HENRIETTA SUBSTATION	Lemoore	9,356	1.69	0.20	0.01
HIGH DESERT	Victorville	1,686,371	118.70	115.06	1.31
HIGH SIERRA	Bakersfield	227,398			
HUMBOLDT BAY	Eureka	272,722	951.10	18.11	0.52
KEARNY	San Diego	32,768	11.38	0.76	0.09
KERN FRONT	Bakersfield	211,245			
KERN RIVER COGEN	Bakersfield	1,762,151			
KINGS RIVER	Auberry	0			
LA PALOMA	Mc Kittrick	5,384,354	3.17	11.87	0.38
LIVE OAK COGEN (LIVE OAK LIMITED)	Bakersfield	188,208	12.11	0.61	0.03
LONG BEACH (CA) P&G	Long Beach	4,922			
LOS ESTEROS	San Jose	244,059	23.13	17.94	1.27
LOS MEDANOS	Pittsburg	3,144,705	99.52	25.39	1.86
MADERA POWER, LLC	Firebaugh	0	105.79	37.04	1.28
MAGNOLIA	Burbank	275,048	45.08	27.80	4.02
MALBURG	Los Angeles	170,520	46.26	18.70	2.79
MANDALAY	Oxnard	410,753	9.36	4.55	0.21
MCCLURE (CA)	Modesto	4,510			
MCKITTRICK COGEN	Mc Kittrick	186,405			
METCALF ENERGY CENTER	Coyote	593,113	137.00	75.20	5.36
MID RIPON	Modesto	52,318			
MID WOODLAND I & II	Modesto	335,207			
MID-SET	Bakersfield	232,633			
MIDWAY-SUNSET	Fellows	1,291,099			
MOJAVE COGEN	Boron	221,164			
MORRO BAY	Morro Bay	190,698	49.51	11.78	0.57
MOSS LANDING	Moss Landing	2,714,938	141.02	84.87	2.58
MOUNTAINVIEW POWER	Redlands	1,146,593	94.99	45.46	6.69
NCPA STIG	Lodi	1,633			
OAKLAND (CA)	Oakland	20,929	52.00	9.30	0.70
OLIVE	Burbank	37,960	1.13	0.41	0.06
ORMOND BEACH	Oxnard	1,391,958	20.09	6.91	0.32
OXNARD P&G	Oxnard	266,384	12.63	5.35	0.25
PACIFIC OROVILLE POWER, INC.	Oroville	6,671	123.90	71.63	3.28
PACIFIC-ULTRAPOWER CHINESE STA	Jamestown	8,670	168.84	48.63	1.71
PALOMAR ENERGY	Escondido	529,111	76.24	58.09	4.59

PASTORIA (TEJON)	Lebec	771,667	90.57	30.56	1.06
PITTSBURG	Pittsburg	1,132,542	40.18	11.25	0.82
POTRERO	San Francisco	551,942	0.38	0.03	0.00
PROCTER & GAMBLE - SMUD	Sacramento	420,886			
REDDING	Redding	250,307	3.51	3.12	0.14
REDONDO BEACH GENERATING STAT	Redondo Beach	1,977	21.66	24.12	3.40
RIO BRAVO JASMIN	Bakersfield	348,006	143.43	25.92	0.96
RIVERSIDE ENERGY (CA)	Riverside	57,896	4.04	0.49	0.09
ROSEVILLE	Roseville	1,613			
SCATTERGOOD	Playa Del Rey	1,166,175	32.58	44.32	6.21
SMUD CONSUMNES RIVER PHASE 1	Herald	545,069	9.12	0.14	0.02
SO CAL EDISON CO	Avalon	25,748	135.54	42.30	6.47
SOUTH BAY	Chula Vista	1,208,732	95.35	82.85	6.50
SOUTH BELRIDGE UCPL	South Belridge	8,615			
SPAC	Sacramento	547,652			
SUNRISE POWER PROJECT	Fellows	2,799,554	66.47	59.05	1.94
SUTTER POWER	Yuba City	1,431,251	107.79	23.08	1.13
SYCAMORE COGEN	Bakersfield	1,823,852			
TRACY PEAKER	Tracy	12,609			
VALLEY (CA)	Sun Valley	1,873,015	70.03	13.13	2.15
WALNUT ENERGY	Turlock	12,997			
WATSON COGEN	Carson	4,220,357	2.67	0.76	0.12
WELLHEAD POWER PANOCH, LLC	Firebaugh	0	0.26	0.41	0.01
WILDFLOWER - INDIGO	North Palm Springs	61,624	7.89	1.78	0.28
WILDFLOWER -LARKSPUR	San Diego	31,158			

Power Plants that information was sought after yet could not be obtained:

COALINGA COGEN CO., COLDGEN - SUNLAW COGEN #2, COLDGEN - SUNLAW COGEN #1, RIVERSIDE CANAL POWER, VALERO UNIT 1 & 2

Cement Kilns					
Name	City	CO ₂ (2007) (tons)	NO _x (2005) (tons)	PM (2005) (tons)	Combined Health Risk Benchmark
CALIFORNIA PORTLAND CEMENT CO.	MOJAVE	1,672,701	3,125.67	513.92	5.88
CEMEX CALIFORNIA LLC - RIVER PLANT	VICTORVILLE	19,624	36.67	528.60	2.01
CEMEX QUARRY	APPLE VALLEY	2,543,834	4,753.50	2,218.15	12.47
LEHIGH SOUTHWEST CEMENT CO.	MONOLITH	415,474	776.37	300.98	2.60
MITSUBISHI CEMENT 2005	LUCERNE VALLEY	1,400,387	2,616.82	918.58	8.67
NATIONAL CEMENT CO	LEBEC	534,321	998.45	508.59	4.55
TXI RIVERSIDE CEMENT COMPANY	ORO GRANDE	2,200,050	4,111.09	2,460.62	10.23
CEMEX - CEMENT PLANT	DAVENPORT	427,124	798.14	429.78	5.13
CALIFORNIA PORTLAND CEMENT CO (NSR USE)	COLTON	511,939	956.63	117.46	13.57
HANSON AGGREGATES WEST INC/ EAGLE VALLEY	CORONA	55	0.10	6.34	0.32
RIVERSIDE CEMENT CO (EIS USE)	RIVERSIDE	41,881	78.26	63.25	3.87
HANSON PERMANENTE CEMENT	CUPERTINO	729,966	1,364.04	93.16	4.93
LEHIGH SOUTHWEST CEMENT CO.	REDDING	252,644	472.10	168.45	5.06

Sources: Carma.org. CARB Emissions Inventory

Petroleum Refineries

Name	City	CO ₂ (2007) (tons)	NO _x (2005) (tons)	PM (2005) (tons)	Combined Health Risk Benchmark
BIG WEST OF CA, LLC	BAKERSFIELD	1,758,364	631.45	182.85	5.79
BIG WEST OF CA, LLC	BAKERSFIELD	172,434	61.92	10.97	0.38
BP WEST COAST PROD.LLC BP CARSON REF.	CARSON	1,986,601	713.42	405.10	47.76
CHEVRON PRODUCTS CO.	EL SEGUNDO	2,803,485	1,006.77	357.22	45.42
CHEVRON PRODUCTS COMPANY	RICHMOND	3,252,580	1,168.05	249.71	16.75
CONOCO PHILLIPS SANTA MARIA FA	ARROYO GRANDE	494,223	177.48	142.10	4.16
CONOCOPHILLIPS - SAN FRANCISCO	RODEO	936,317	336.24	126.50	7.43
CONOCOPHILLIPS COMPANY	CARSON	1,084,257	389.37	62.49	9.61
CONOCOPHILLIPS COMPANY	WILMINGTON	1,736,126	623.47	284.31	31.13
EDGINGTON OIL COMPANY	LONG BEACH	65,018	23.35	13.42	1.47
EQUILON ENTER., LLC, SHELL OIL PROD. U S	WILMINGTON	2,177,249	781.88	327.31	38.55
EXXONMOBIL OIL CORPORATION	TORRANCE	2,243,888	805.81	445.55	49.88
KERN OIL & REFINING CO	BAKERSFIELD	375,561	134.87	10.89	0.48
LAS PALMAS OIL & DEHYDRATION	BAKERSFIELD	6,020	2.16	0.08	0.00
LUNDAY-THAGARD COMPANY	SOUTH GATE	61,153	21.96	2.35	0.45
PARAMOUNT PETR CORP (EIS USE)	PARAMOUNT	312,069	112.07	116.57	12.45
SAN JOAQUIN REFINING COMPANY	BAKERSFIELD	61,826	22.20	6.35	0.22
SHELL MARTINEZ REFINERY	MARTINEZ	4,727,522	1,697.72	407.97	27.76
SMRC/UNION SUGAR	SANTA MARIA	90,083	32.35	2.23	0.14
TESORO REFINING AND MARKETING	MARTINEZ	3,936,072	1,413.50	177.14	10.26
TESORO REFINING AND MARKETING	PITTSBURG	32,410	11.64	10.99	0.46
TRICOR REFINING, LLC	OILDALE	28,015	10.06	8.40	0.19
ULTRAMAR INC (NSR USE ONLY)	WILMINGTON	717,581	257.69	102.02	12.04
VALERO REFINING COMPANY - CALI	BENICIA	5,797,334	2,081.90	321.00	18.97
VALERO WILMINGTON ASPHALT PLANT	WILMINGTON	23,811	8.55	1.12	0.20