

Government Greenhouse Gas Emissions in 2005 Detailed Report

	Equiv CO ₂ (lbs)	Equiv CO ₂ (%)	Energy (MBtu)	Cost (\$)
Buildings				
Newark, California				
<i>Alameda Co. Facility (Leased)</i>				
Electricity	37,667	0.6	244,867	10,620
Natural Gas	15,532	0.2	125,700	163
<i>Subtotal Alameda Co. Facility (Leased)</i>	53,199	0.8	370,567	10,783
This record includes data on the leased space. The space is leased out to Alameda County.				
<i>Chamer Of Commerce (Leased)</i>				
Electricity	5,316	0.1	34,556	1,669
<i>Subtotal Chamer Of Commerce (Leased)</i>	5,316	0.1	34,556	1,669
This record includes data on the leased space. The space is leased out to Chamber of Commerce.				
<i>Newark City Hall buildings</i>				
Electricity	342,510	5.2	2,226,621	86,775
Natural Gas	151,552	2.3	1,226,500	14,978
<i>Subtotal Newark City Hall buildings</i>	494,062	7.5	3,453,121	101,752
This Building Group includes electricity and natural gas consumption by the City Hall Tower, Police Annex, Public Works Annex located at 37101 Newark Blvd.				
Number of occupants - 35+23+20/shift= 78				
<i>Newark Fire Administration and Stations</i>				
Electricity	78,995	1.2	513,536	19,410
Natural Gas	76,944	1.2	622,700	7,040
<i>Subtotal Newark Fire Administration and Station</i>	155,939	2.4	1,136,236	26,450
This Building Group includes electricity and natural gas consumption by Fire Admin. building located at 6170 Thornton Ave., Fire St. # 1 at 7550 Thornton Ave., Fire St. # 2 at 35775 Ruschin Ave., Fire St. # 3 and Training Tower at 39039 Cherr St., Silliman Center Phase I and II located at 6800 Mowry Avenue. The Old Fire Station located at 7700 is vacant and uses no energy.				
<i>Newark Maintenance Yard</i>				
Electricity	64,796	1.0	421,229	17,097
Natural Gas	39,998	0.6	323,700	4,028
<i>Subtotal Newark Maintenance Yard</i>	104,793	1.6	744,929	21,125

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This Building Group includes electricity and natural gas consumption by Office building, Crew Quarter, Equipment Shop, Storage, Hazmat/Equipment and Building Maintenance at 37440 Filbert St.

Newark Offsite Administrative Building

Electricity	16,590	0.3	107,850	6,704
Subtotal Newark Offsite Administrative Building	16,590	0.3	107,850	6,704

This Building Group includes electricity and natural gas consumption by Finance, #6 Central Services, #7 Atrium located at 6066 Civic Terrace.

Newark Other Facilities

Electricity	17,598	0.3	114,403	359
Subtotal Newark Other Facilities	17,598	0.3	114,403	359

This includes Chelsea Drive Boat House and Soccer Field Restroom.

Newark Preschool Program Buildings

Electricity	15,750	0.2	102,389	4,565
Natural Gas	7,303	0.1	59,100	872
Subtotal Newark Preschool Program Buildings	23,053	0.4	161,489	5,437

This Building Group includes electricity and natural gas consumption by Preschool Program buildings including Viola Blythe, Recreation Center and Restroom located at 37365 Ash St.

Newark Recreation Facilities

Electricity	138,837	2.1	902,563	32,608
Natural Gas	65,674	1.0	531,500	6,484
Subtotal Newark Recreation Facilities	204,511	3.1	1,434,063	39,092

This Building Group includes electricity and natural gas consumption by Community Center buildings - Main building, Day Care building and restroom located at 35501 Cedar Blvd.

Newark Senior Center Buildings

Electricity	37,086	0.6	241,092	9,341
Natural Gas	12,196	0.2	98,700	1,345
Subtotal Newark Senior Center Buildings	49,282	0.8	339,792	10,686

This Building Group includes electricity and natural gas consumption

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by Senior Center buildings located at 7401 Enterprise Drive.

Public Restroom/Scorekeeper Hut

Electricity	12,222	0.2	79,454	2,806
Subtotal Public Restroom/Scorekeeper Hut	12,222	0.2	79,454	2,806

This Building Group includes electricity and natural gas consumption by Restroom and Score Keeper Hut located at 38200 Birch St.

Sportsfield

Electricity	17,598	0.3	114,403	3,582
Subtotal Sportsfield	17,598	0.3	114,403	3,582

This Building Group includes electricity and natural gas consumption by Sportsfield at 39111 Cherry St.

Swimming & Rec. Center Bldg.

Electricity	1,489,488	22.7	9,683,003	209,051
Natural Gas	1,207,398	18.4	9,771,400	105,798
Subtotal Swimming & Rec. Center Bldg.	2,696,886	41.2	19,454,403	314,849

This Building Group includes electricity and natural gas consumption by Silliman Center Phase I and II located at 6800 Mowry Avenue.

Data Sources:

Data provided by Susie Cullen, Maintenance Superintendent, susie.cullen@newark.org, 510-742-4804 on July, 25, 2006.

Data entry:

Palak Joshi, Program Assistant, ICLEI, palak.joshi@iclei.org, (510) 844-0699, on August 25, 2006. Timothy Burroughs, Supervisor, timothy.burroughs@iclei.org.

Reference file: ICLEI_Newark_Bldgs StrtLghts WtrSwg_CY2005

Subtotal Buildings	3,851,047	58.8	27,545,266	545,293
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Vehicle Fleet

Newark, California

Building Inspection Fleet

Gasoline	14,083	0.2	82,395	0
Subtotal Building Inspection Fleet	14,083	0.2	82,395	0

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<i>Buildings Dept. Fleet</i>				
Gasoline	25,672	0.4	150,472	0
<i>Subtotal Buildings Dept. Fleet</i>	25,672	0.4	150,472	0
<i>Engineering Dept. Fleet</i>				
Gasoline	67,199	1.0	393,639	0
<i>Subtotal Engineering Dept. Fleet</i>	67,199	1.0	393,639	0
<i>Equipment Shop Fleet</i>				
Gasoline	8,250	0.1	48,357	0
<i>Subtotal Equipment Shop Fleet</i>	8,250	0.1	48,357	0
<i>Finance Dept. Fleet</i>				
Gasoline	301	0.0	1,758	0
<i>Subtotal Finance Dept. Fleet</i>	301	0.0	1,758	0
<i>Fire Dept. Fleet</i>				
Gasoline	54,620	0.8	319,533	0
Diesel	75,454	1.2	434,858	0
<i>Subtotal Fire Dept. Fleet</i>	130,074	2.0	754,391	0
<i>Investigation Dept. Fleet</i>				
Gasoline	76,082	1.2	445,638	0
<i>Subtotal Investigation Dept. Fleet</i>	76,082	1.2	445,638	0
<i>Newark Patrol Fleet</i>				
Gasoline	459,769	7.0	2,697,694	0
<i>Subtotal Newark Patrol Fleet</i>	459,769	7.0	2,697,694	0
<i>Newark Police Fleet</i>				
Gasoline	77,682	1.2	455,310	0
<i>Subtotal Newark Police Fleet</i>	77,682	1.2	455,310	0
<i>Newark Pool Fleet</i>				
Gasoline	237	0.0	1,382	0
<i>Subtotal Newark Pool Fleet</i>	237	0.0	1,382	0

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<i>Newark Recreation Fleet</i>				
Gasoline	621	0.0	3,642	0
<i>Subtotal Newark Recreation Fleet</i>	621	0.0	3,642	0
<i>Newark Sacnet</i>				
Gasoline	1,927	0.0	11,304	0
<i>Subtotal Newark Sacnet</i>	1,927	0.0	11,304	0
<i>Newark Zoning Fleet</i>				
Gasoline	22,634	0.3	132,636	0
<i>Subtotal Newark Zoning Fleet</i>	22,634	0.3	132,636	0
Data Sources:				
1. Data for city vehicle fleet provided by Susie Cullen, Maintenance Superintendent, susie.cullen@newark.org, 510-742-4804 on July, 25, 2006.				
2. Data for Waste Management fleet provided by David Tucker at Waste Management, DTucker2@wm.com on Oct 03, 2006				
Notes:				
1. All the records represent fuel consumed by city fleet in providing city services.				
2. The 'Newark Waste Management Fleet' record provides data on fuel consumed by Waste Management fleet in providing waste management services to Newark.				
Data entered by Palak Joshi, Program Assistant, ICLEI, palak.joshi@iclei.org, 510 844 0699 on August 15, 2006. Reference file: ICLEI_Newark_VehicleFleet_CY2005				
<i>Parks Maintenance Fleet</i>				
Gasoline	110,597	1.7	648,235	0
Diesel	30,742	0.5	177,219	0
<i>Subtotal Parks Maintenance Fleet</i>	141,339	2.2	825,455	0
<i>Street Maintenance Fleet</i>				
Gasoline	44,144	0.7	260,249	0
Diesel	128,583	2.0	741,235	0
<i>Subtotal Street Maintenance Fleet</i>	172,727	2.6	1,001,484	0
<i>Waste Management Fleet</i>				
Gasoline	65,029	1.0	381,149	7,818
Diesel	1,546,330	23.6	8,914,068	174,058
<i>Subtotal Waste Management Fleet</i>	1,611,359	24.6	9,295,217	181,876

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Subtotal Vehicle Fleet	2,809,956	42.9	16,300,776	181,876

Streetlights

Newark, California

Newark Street Lights

Electricity	663,437	10.1	4,312,934	150,835
Subtotal Newark Street Lights	663,437	10.1	4,312,934	150,835

Data Sources:

Data provided by Susie Cullen, Maintenance Superintendent, susie.cullen@newark.org, 510-742-4804 on July, 25, 2006.

Notes:

1. The electricity consumption was estimated based on the following information provided by the city - In 2005, we spent 150834.71\$ on electricity for our 2816 street lights and the following data from PG&E - Total Energy Charge Rate (\$ per kWh) is \$0.11936 (PG&E). Reference file: ICLEI_Newark_Bldgs StrtLghts WtrSwg_CY2005

Data entered by Palak Joshi, Program Assistant, ICLEI, palak.joshi@iclei.org, 510 844 0699 on August 30, 2006.

Subtotal Streetlights	663,437	10.1	4,312,934	150,835
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Water/Sewage

Newark, California

Irrigation & Sprinkler Controller

Electricity	18,062	0.3	117,416	6,752
Subtotal Irrigation & Sprinkler Controller	18,062	0.3	117,416	6,752

Pump Electricity Usage

Electricity	54,042	0.8	351,321	12,406
Subtotal Pump Electricity Usage	54,042	0.8	351,321	12,406

Common Notes (Buildings, Streetlights, Waste/Sewage):

1. PG&E specific eCO₂ emissions factor of 0.525 lbs/kWh (or 262.5 short tons CO₂/GWh) of delivered electricity in 2005 provided by Greg San Martin used.
2. The PG&E coefficient set is based on the PG&E - specific eCO₂ emissions factor for 2005 and default criteria air pollutant emissions factors for the 2004 Region 13 - Western Systems Coordinating Council/CNV Average Grid Electricity Set. The PG&E coefficient set does not have emissions factors for CH₄ and N₂O as the eCO₂ emissions factor includes CH₄ and N₂O emissions in CO₂ equivalents. The business-as-usual projections for 2020 assume no change in the PG & E eCO₂ emissions factor.
3. The eCO₂ emissions factor is pending independent verification and certification from the California Climate Action Registry; the confirmed eCO₂ factor will be made public by CCAR at the end of 2006, at which time the emissions factor used in this analysis should be updated if it has changed.

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Subtotal Water/Sewage	72,104	1.1	468,737	19,158
Waste				
Newark, California				
<i>City Bldgs/Operations/ Park waste</i>			<i>Disposal Method - Managed Landfill</i>	
Paper Products	-94,247	-1.4		0
Food Waste	232,322	3.5		0
Plant Debris	-479,143	-7.3		0
Wood/Textiles	-504,188	-7.7		0
Subtotal City Bldgs/Operations/ Park waste	-845,256	-12.9		0
Data Source: Data provided by Susie Cullen, Maintenance Superintendent, susie.cullen@newark.org, 510-742-4804.				
Notes: 1. The data record includes estimated waste generated in all city buildings and facilities, waste from maintenance garbage dumpsters which includes park garbage cans, misc. litter pick up, misc. trash etc. and green waste. 2. Please note that the waste tonnage for municipal building and facilities and the waste characterization are estimates.				
Data entered by Palak Joshi, Program Assistant, ICLEI, palak.joshi@iclei.org, (510) 844 0699.				
Subtotal Waste	-845,256	-12.9		0
Total	6,551,288	100.0	48,627,713	897,162