

PCC Specific Plan Construction and Operational Energy Use

PCC SP - Construction Energy Use

Phase 1

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Demolition	35.70	7.47	5.13	8.03
Site Preparation	36.78	0.00	2.69	5.26
Grading	57.32	0.00	5.35	16.53
Building Construction	225.93	0.00	70.78	107.80
Paving	44.06	0.00	5.32	8.11
Architectural Coating	5.62	0.00	10.65	16.22

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	3,496.65	914.29	502.16	731.34
10.21	8.78	3,602.27	598.64	263.04	0.00
10.21	8.78	5,614.03	1,882.89	523.87	0.00
10.21	8.78	22,128.48	12,278.29	6,932.82	0.00
10.21	8.78	4,315.44	923.50	521.44	0.00
10.21	8.78	550.17	1,846.99	1,042.89	0.00

Phase 2 and 3

	CO2 MT/yr			
	Equipment	Hauling	Vendor	Worker
Demolition	71.38	7.09	19.72	18.63
Total	36.80	0.00	5.16	11.71
Grading	54.73	60.94	9.86	29.80
Building Construction	303.69	0.00	184.20	343.79
Paving	43.06	0.00	10.06	14.75
Architectural Coating	5.49	0.00	20.11	44.26

Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Construciton Equipment Gallons	Woker Vehicle Gallons	Vendor Vehicle Gallons	Haul Vehicle Gallons
10.21	8.78	6,991.51	2,121.61	1,930.95	694.04
10.21	8.78	3,603.89	1,333.59	505.73	0.00
10.21	8.78	5,360.16	3,394.58	965.48	5,968.74
10.21	8.78	29,744.20	39,155.80	18,041.39	0.00
10.21	8.78	4,217.14	1,680.51	984.98	0.00
10.21	8.78	537.66	5,041.54	1,969.94	0.00

Total 90,161.59 71,172.23 34,184.68 7,394.11 202,912.61

California's Consumption of Petroleum Over Construction Period

Phase 1	35,841,600,000.00
Phase 2 and 3	45,352,200,000.00
Total	81,193,800,000.00

PCC SP - Operational Energy Use

Land Use	kBTU/yr	Therms
Apartments Mid Rise	2,927,690	29,277
Regional Shopping Center	14,527	145
High Turnover Sit Down Restaurant	956,561	9,566
Total	3,898,778	38,988

PCC SP - Operational Energy Use

Total Electricity	kWh/yr
Apartments Mid Rise	1,044,560.00
Regional Shopping Center	81,249.00
High Turnover Sit Down Restaurant	131,535.00
Parking Garage	1,660,290.00
Building Total	2,917,634.00
Water/Wastewater	
Total	3,143,911.23

Electricity Intensity Factors - Water/Wastewater

Process	Units	
Supply	kwh/MG	2117
Treat	kwh/MG	111
Distribute	kwh/MG	1272
Wastewater Treatment	kwh/MG	1911
Total	kwh/MG	5,411

* Electricity intensity factors from CalEEMod Appendix D for SCAQMD

Electricity Demand - Water/Wastewater

	Units	Potable Water - Indoor	Potable Water - Outdoor	Total
Electricity Intensity Factor				
Supply	kwh/MG	9,727	2,117	N/A
Treat	kwh/MG	111	111	N/A
Distribute	kwh/MG	1,272	1,272	N/A
Wastewater Treatment	kwh/MG	1,911	-	N/A
Total	kwh/MG	13,021	3,500	N/A
Water Consumption - Project	MG/yr	15	9	24
Electricity Usage - Project	kwh/yr	195,829	30,449	226,277.23

Project - Land Uses	Mgal - Indoor	Mgal - Outdoor
Apartments Mid Rise	13.7084	8.64226
Regional Shopping Center	0.432584	0
High Turnover Sit Down Restaurant	0.89846	0.057348
	15.039444	8.699608

PCC SP - Operational Energy Use

	Annual VMT	Annual CO2 MT	% GAS	% DSL	MT CO2 GAS	MT CO2 DSL	Diesel kg CO2/Gallons	Gasoline kg CO2/Gallons	Diesel Gallons/yr	Gasoline Gallons/yr	Petro Gallons/yr
Project	6,330,741.00	1,766.93	92.43	7.57	1,633.12	133.81	10.21	8.78	13,106.20	186,004.17	199,110.37