

Appendix H5: Energy Consumption Data

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APPENDIX C5, SHEET 01: UNMITIGATED ENERGY SUMMARY

TABLE C5-01.1: EXISTING CONDITIONS ENERGY SUMMARY				
Source	Energy Consumption Per Year			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Building Energy				
Office (all spaces)	--	--	7.0	2,170.2
Warehouse (DC)	--	--	0.0	2,461.6
Warehouse (7th Street)	--	--	0.3	1,182.7
Parking Lot (all areas)	--	--	0.0	0.0
<i>Building Subtotal</i>	<i>0.0</i>	<i>0.0</i>	<i>7.3</i>	<i>5,814.5</i>
Mobile Source Energy				
Passenger Vehicles	491.9	137,170.3	0.0	--
Truck Trips	451,734.6	10,043.8	0.0	--
<i>Mobile Subtotal</i>	<i>452,226.6</i>	<i>147,214.0</i>	<i>0.1</i>	<i>0.0</i>
TOTAL	452,226.6	147,214.0	7.4	5,814.5

Table C5-01.2: PHASE 1 AND PHASE 2B CONSTRUCTION ENERGY SUMMARY

Phase/Source	Total Energy Consumption			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Phase 1				
On-Site Off-Road Equip	284,332	--	--	--
Off-Site Vehicles	241,163	330,818	0.1	--
<i>Phase 1 Subtotal</i>	<i>525,495</i>	<i>330,818</i>	<i>0.1</i>	<i>0</i>
Phase 2B				
On-Site Off-Road Equip	60,477	--	--	--
Off-Site Vehicles	2,081	13,337	0.0	--
<i>Phase 2B Subtotal</i>	<i>62,558</i>	<i>13,337</i>	<i>0.0</i>	<i>0</i>
Total Construction Use	588,053	344,155	0.1	0
Existing Energy Use (for 2 Years)	904,453	294,428	14.8	11,629
TOTAL NET USE	-316,400	49,727	-14.7	-11,629

Table C5-01.3: PHASE 1 OPERATIONAL ENERGY SUMMARY (ANNUAL AVERAGE)

Source	Annual Average Energy Consumption Per Year			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Building Energy				
Office (all spaces)	--	--	1.1	1,770
Warehouse (DC+AS/RS)	--	--	20.3	4,584
Manufacturing (PC)	--	--	11.9	15,079
Parking Structures/Lots	--	--	1.5	0
User Defined (Well)	--	--	0.8	0
Warehouse (7th St)	--	--	0.3	1,183
<i>Building Subtotal</i>	<i>0</i>	<i>0</i>	<i>35.9</i>	<i>22,616</i>

Stationary Energy				
Tray Shrink Packers	--	--	--	5,945
Boilers	--	--	--	94,907
Cogeneration System	--	--	--	--
Emergency Generators	50,800	--	--	--
<i>Stationary Subtotal</i>	<i>50,800</i>	<i>0</i>	<i>0.0</i>	<i>100,852</i>
Mobile Source Energy				
Passenger Vehicles	1,074	307,084	0.2	--
Truck Trips	1,933,670	34,680	0.2	--
<i>Mobile Subtotal</i>	<i>1,934,743</i>	<i>341,764</i>	<i>0.4</i>	<i>0</i>
TOTAL PHASE 1	1,985,543	341,764	36.3	123,468
EXISTING ENERGY USE	452,227	147,214	7.4	5,814
TOTAL NET CHANGE	1,533,317	194,550	28.9	117,653
SITE DEMAND INCREASE	339%	132%	391%	2023%

Table C5-01.4: PHASE 1 OPERATIONAL ENERGY SUMMARY (ANNUAL MAXIMUM POTENTIAL)

Source	Annual Maximum Potential Energy Consumption Per Year			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Building Energy				
Office (all spaces)	--	--	1.1	1,770
Warehouse (DC+AS/RS)	--	--	20.3	4,584
Manufacturing (PC)	--	--	11.9	15,079
Parking Structures/Lots	--	--	1.5	0
User-Defined (Well)	--	--	0.8	0
Warehouse (7th St)	--	--	0.3	1,183
<i>Building Subtotal</i>	<i>0</i>	<i>0</i>	<i>35.9</i>	<i>22,616</i>
Stationary Energy				
Tray Shrink Packers	--	--	--	5,945
Boilers	--	--	--	108,510
Cogeneration System	--	--	--	--
Emergency Generators	50,800	--	--	--
<i>Stationary Subtotal</i>	<i>50,800</i>	<i>0</i>	<i>0.0</i>	<i>114,455</i>
Mobile Source Energy				
Passenger Vehicles	1,074	307,084	0.2	--
Truck Trips	1,933,670	34,680	0.2	--
<i>Mobile Subtotal</i>	<i>1,934,743</i>	<i>341,764</i>	<i>0.4</i>	<i>0</i>
TOTAL PHASE 1	1,985,543	341,764	36.3	137,070
EXISTING ENERGY USE	452,227	147,214	7.4	5,814
TOTAL NET CHANGE	1,533,317	194,550	28.9	131,256
SITE DEMAND INCREASE	339%	132%	391%	2257%

Table C5-01.5: PHASE 2 OPERATIONAL ENERGY SUMMARY (Annual Average Without Thermal Recovery)

Source	Annual Average Energy Consumption Per Year			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Building Energy				
Office (all spaces)	--	--	1.1	1,770
Warehouse (DC+AS/RS)	--	--	7.7	4,584
Manufacturing (PC)	--	--	4.5	15,079
Parking Structures/Lots	--	--	1.5	0
User Defined (Well)	--	--	0.8	0
Warehouse (7th St)	--	--	0.3	1,183
<i>Building Subtotal</i>	<i>0</i>	<i>0</i>	<i>15.9</i>	<i>22,616</i>
Stationary Energy				
Tray Shrink Packers	--	--	--	5,945
Boilers	--	--	--	189,815
Cogeneration System	--	--	--	203,696
Emergency Generators	50,800	--	--	--
<i>Stationary Subtotal</i>	<i>50,800</i>	<i>0</i>	<i>0.0</i>	<i>399,455</i>
Mobile Source Energy				
Passenger Vehicles	1,030	299,351	0.2	--
Truck Trips	1,894,065	33,447	0.4	--
<i>Mobile Subtotal</i>	<i>1,895,095</i>	<i>332,799</i>	<i>0.6</i>	<i>0</i>
TOTAL PHASE 2	1,945,895	332,799	16.4	422,071
EXISTING ENERGY USE	452,227	147,214	7.4	5,814
TOTAL NET CHANGE	1,493,668	185,585	9.1	416,256
SITE DEMAND INCREASE	330%	126%	123%	7159%

Table C5-01.6: PHASE 2 OPERATIONAL ENERGY SUMMARY (ANNUAL MAXIMUM POTENTIAL WITHOUT THERMAL RECOVERY)

Source	Annual Maximum Potential Energy Consumption Per Year			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Building Energy				
Office (all spaces)	--	--	1.1	1,770
Warehouse (DC+AS/RS)	--	--	7.7	4,584
Manufacturing (PC)	--	--	4.5	15,079
Parking Structures/Lots	--	--	1.5	0
User-Defined (Well)	--	--	0.8	0
Warehouse (7th St)	--	--	0.3	1,183
<i>Building Subtotal</i>	<i>0</i>	<i>0</i>	<i>15.9</i>	<i>22,616</i>
Stationary Energy				
Tray Shrink Packers	--	--	--	5,945
Boilers	--	--	--	217,020
Cogeneration System	--	--	--	223,047
Emergency Generators	50,800	--	--	--
<i>Stationary Subtotal</i>	<i>50,800</i>	<i>0</i>	<i>0.0</i>	<i>446,012</i>
Mobile Source Energy				
Passenger Vehicles	1,030	299,351	0.2	--

Truck Trips	1,894,065	33,447	0.4	--
<i>Mobile Subtotal</i>	1,895,095	332,799	0.6	0
TOTAL PHASE 2	1,945,895	332,799	16.4	468,628
EXISTING ENERGY USE	452,227	147,214	7.4	5,814
TOTAL NET CHANGE	1,493,668	185,585	9.1	462,813
SITE DEMAND INCREASE	330%	126%	123%	7960%

Table C5-01.7: PHASE 2 OPERATIONAL ENERGY SUMMARY (Annual Average With Thermal Recovery)

Source	Annual Average Energy Consumption Per Year			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Building Energy				
Office (all spaces)	--	--	1.1	1,770
Warehouse (DC+AS/RS)	--	--	7.7	4,584
Manufacturing (PC)	--	--	4.5	15,079
Parking Structures/Lots	--	--	1.5	0
User Defined (Well)	--	--	0.8	0
Warehouse (7th St)	--	--	0.3	1,183
<i>Building Subtotal</i>	0	0	15.9	22,616
Stationary Energy				
Tray Shrink Packers	--	--	--	5,945
Boilers	--	--	--	142,039
Cogeneration System	--	--	--	203,696
Emergency Generators	50,800	--	--	--
<i>Stationary Subtotal</i>	50,800	0	0.0	351,679
Mobile Source Energy				
Passenger Vehicles	1,030	299,351	0.2	--
Truck Trips	1,894,065	33,447	0.4	--
<i>Mobile Subtotal</i>	1,895,095	332,799	0.6	0
TOTAL PHASE 2	1,945,895	332,799	16.4	374,295
EXISTING ENERGY USE	452,227	147,214	7.4	5,814
TOTAL NET CHANGE	1,493,668	185,585	9.1	368,480
SITE DEMAND INCREASE	330%	126%	123%	6337%

Table C5-01.8: PHASE 2 OPERATIONAL ENERGY SUMMARY (ANNUAL MAXIMUM POTENTIAL WITH THERMAL RECOVERY)

Source	Annual Maximum Potential Energy Consumption Per Year			
	Diesel (Gallons)	Gasoline (Gallons)	Electricity (GWh)	Natural Gas (MMBTU)
Building Energy				
Office (all spaces)	--	--	1.1	1,770
Warehouse (DC+AS/RS)	--	--	7.7	4,584
Manufacturing (PC)	--	--	4.5	15,079
Parking Structures/Lots	--	--	1.5	0
User-Defined (Well)	--	--	0.8	0
Warehouse (7th St)	--	--	0.3	1,183
<i>Building Subtotal</i>	0	0	15.9	22,616
Stationary Energy				
Tray Shrink Packers	--	--	--	5,945

Boilers	--	--	--	169,244
Cogeneration System	--	--	--	223,047
Emergency Generators	50,800	--	--	--
<i>Stationary Subtotal</i>	<i>50,800</i>	<i>0</i>	<i>0.0</i>	<i>398,236</i>
Mobile Source Energy				
Passenger Vehicles	1,030	299,351	0.2	--
Truck Trips	1,894,065	33,447	0.4	--
<i>Mobile Subtotal</i>	<i>1,895,095</i>	<i>332,799</i>	<i>0.6</i>	<i>0</i>
TOTAL PHASE 2	1,945,895	332,799	16.4	420,852
EXISTING ENERGY USE	452,227	147,214	7.4	5,814
TOTAL NET CHANGE	1,493,668	185,585	9.1	415,037
SITE DEMAND INCREASE	330%	126%	123%	7138%

Appendix C5, Sheet 02A: Existing Conditions - Building Energy Summary

Land Use	Lot Acreage	Building Square Footage	Electricity Consumption		Natural Gas Consumption	
			kWh/Yr	GWh/Yr	kBTU/Yr	MMBtu/Yr
General Office Building	0.7	79,090	7,036,184.0	7.0	2,170,231.0	2,170.2
UF Warehouse (DC)	3.0	129,485	0.0	0.0	2,461,598.0	2,461.6
UF Warehouse (7th St)	1.4	62,210	287,330.0	0.3	1,182,654.0	1,182.7
Parking Lot	13.3	0	0.0	0.0	0.0	0.0
TOTAL	--	--	7,323,514.0	7.3	5,814,483.0	5,814.5

Appendix C5, Sheet 02B: Existing Conditions - Passenger Vehicle and Truck Fuel Consumption Estimates

Table 1: Fuel Consumption Estimates for Passenger Vehicles

Vehicle	Breakdown	Fuel Split			Fuel Economy			Fuel Consumption		
		Gas	Diesel	Electric	Gas	Diesel	Electric	Gas	Diesel	Electric
HHDT		0.0%	99.7%	0.3%	3.74	5.99	0.56	0.0	0.0	0.0
LDA	54.6%	94.1%	0.2%	5.7%	29.75	42.92	2.75	64,312.8	82.0	42,376.3
LDT1	4.5%	99.7%	0.0%	0.3%	24.52	24.27	2.80	6,860.9	0.8	178.8
LDT2	21.7%	98.7%	0.3%	1.1%	24.23	33.15	2.90	32,966.2	70.3	2,944.4
LHDT1		59.2%	40.5%	0.4%	13.58	20.57	1.78	0.0	0.0	0.0
LHDT2		35.3%	64.3%	0.3%	12.03	17.18	1.78	0.0	0.0	0.0
MCY	2.3%	100.0%	0.0%	0.0%	41.98	0.00	0.00	2,042.2	0.0	0.0
MDV	16.8%	97.5%	1.3%	1.2%	19.67	23.79	2.81	30,988.2	338.9	2,769.9
MH		71.5%	28.5%	0.0%	4.89	10.23	0.00	0.0	0.0	0.0
MHDT		11.2%	88.5%	0.3%	5.21	8.95	0.96	0.0	0.0	0.0
General Office Sub-Total								137,170.3	491.9	48,269.5

VMT 3,722,725

Table 2: Fuel Consumption Estimates for Existing Truck Trips

Vehicle	Breakdown	Fuel Split			Fuel Economy			Fuel Consumption		
		Gas	Diesel	Electric	Gas	Diesel	Electric	Gas	Diesel	Electric
HHDT	89.8%	0.00	1.00	0.00	3.74	5.99	0.56	83.3	436,567.7	12,930.5
LDA		0.94	0.00	0.06	29.75	42.92	2.75	0.0	0.0	0.0
LDT1		1.00	0.00	0.00	24.52	24.27	2.80	0.0	0.0	0.0
LDT2		0.99	0.00	0.01	24.23	33.15	2.90	0.0	0.0	0.0
LHDT1	5.1%	0.59	0.40	0.00	13.58	20.57	1.78	6,450.1	2,912.1	302.2
LHDT1	1.4%	0.35	0.64	0.00	12.03	17.18	1.78	1,173.7	1,496.0	74.3
MCY		1.00	0.00	0.00	41.98	0.00	0.00	0.0	0.0	0.0
MDV		0.97	0.01	0.01	19.67	23.79	2.81	0.0	0.0	0.0
MH		0.71	0.29	0.00	4.89	10.23	0.00	0.0	0.0	0.0
MHDT	3.7%	0.11	0.89	0.00	5.21	8.95	0.96	2,336.6	10,758.9	366.6
Unrefrigerated Warehouse Sub-Total								10,043.8	451,734.6	13,673.6

VMT 2,919,137

Overall Total 147,214.0 452,226.6 61,943.0

Tot VMT 6,641,862

Appendix C5, Sheet 03A: Phase 1 Construction - Off-Road Equipment Fuel Consumption Estimate

Table C5-02A.1: PHASE 1 OFF-ROAD EQUIPMENT FUEL CONSUMPTION ESTIMATES									
Phase	Days	Equipment	# of Pieces	Hrs/Day	HP	Load Factor	Runtime (bhp-hr)	Fuel Consumption (bhp-hr/gal)	Total Fuel Consumption (Gallons)
Demolition of Existing Buildings	70	Rubber Tired Dozers	2	8	367	0.4	164,416	18.5	8,887
Demolition of Existing Buildings	70	Excavators	3	8	158	0.38	100,867	18.5	5,452
Demolition of Existing Buildings	70	Concrete/Industrial Saws	1	8	33	0.73	13,490	18.5	729
Demolition of Existing Buildings	70	Off-Highway Trucks	3	7.21	376	0.38	216,335	18.5	11,694
Demo of Sidewalk	8	Concrete/Industrial Saws	1	4	33	0.73	771	18.5	42
Demo of Sidewalk	8	Skid Steer Loaders	1	4	71	0.37	841	18.5	45
Demo of Sidewalk	8	Tractors/Loaders/Backhoes	1	8	84	0.37	1,989	18.5	108
Landscaping	110	Rubber Tired Dozers	3	8	367	0.4	387,552	18.5	20,949
Landscaping	110	Tractors/Loaders/Backhoes	4	8	84	0.37	109,402	18.5	5,914
Well Site Prep	11	Tractors/Loaders/Backhoes	1	6	148	0.37	3,614	18.5	195
Well Site Prep	11	Tractors/Loaders/Backhoes	1	6	84	0.37	2,051	18.5	111
Sitework (Grading and Utilities)	125	Graders	1	8	148	0.41	60,680	18.5	3,280
Sitework (Grading and Utilities)	125	Excavators	2	8	158	0.38	120,080	18.5	6,491
Sitework (Grading and Utilities)	125	Tractors/Loaders/Backhoes	2	8	84	0.37	62,160	18.5	3,360
Sitework (Grading and Utilities)	125	Scrapers	2	8	423	0.48	406,080	18.5	21,950
Sitework (Grading and Utilities)	125	Rubber Tired Dozers	1	8	367	0.4	146,800	18.5	7,935
Sitework (Grading and Utilities)	125	Off-Highway Trucks	3	7.21	376	0.38	386,312	18.5	20,882

Paving on N and E of Site	80	Pavers	2	8	81	0.42	43,546	18.5	2,354
Paving on N and E of Site	80	Paving Equipment	2	8	89	0.36	41,011	18.5	2,217
Paving on N and E of Site	80	Rollers	1	8	36	0.38	8,755	18.5	473
Haven St Imp	170	Pavers	1	8	81	0.42	46,267	18.5	2,501
Haven St Imp	170	Paving Equipment	1	8	89	0.36	43,574	18.5	2,355
Haven St Imp	170	Rollers	1	8	36	0.38	18,605	18.5	1,006
Haven St Imp	170	Tractors/Loaders/ Backhoes	1	6	84	0.37	31,702	18.5	1,714
Haven St Imp	170	Off-Highway Trucks	1	2	376	0.38	48,579	18.5	2,626
6th Street Imp	170	Pavers	1	8	81	0.42	46,267	18.5	2,501
6th Street Imp	170	Paving Equipment	1	8	89	0.36	43,574	18.5	2,355
6th Street Imp	170	Rollers	1	8	36	0.38	18,605	18.5	1,006
6th Street Imp	170	Tractors/Loaders/ Backhoes	1	6	84	0.37	31,702	18.5	1,714
6th Street Imp	170	Off-Highway Trucks	1	2	376	0.38	48,579	18.5	2,626
Rough Grading and Over Ex	18	Tractors/Loaders/ Backhoes	1	7	84	0.37	3,916	18.5	212
Rough Grading and Over Ex	18	Rollers	1	6	367	0.38	15,062	18.5	814
Rough Grading and Over Ex	18	Tractors/Loaders/ Backhoes	1	6	148	0.37	5,914	18.5	320
Finish Grading	33	Tractors/Loaders/ Backhoes	1	5	84	0.37	5,128	18.5	277
Finish Grading	33	Tractors/Loaders/ Backhoes	1	6	148	0.37	10,842	18.5	586
Paving and Sidewalk	21	Pavers	1	2	81	0.42	1,429	18.5	77
Paving and Sidewalk	21	Cement and Mortar Mixers	4	4	10	0.56	1,882	18.5	102
Paving and Sidewalk	21	Rollers	1	4	36	0.38	1,149	18.5	62
Paving and Sidewalk	21	Tractors/Loaders/ Backhoes	1	4	84	0.37	2,611	18.5	141
PC & DC Struct and Enclosure	215	Forklifts	3	8	82	0.2	84,624	18.5	4,574
PC & DC Struct and Enclosure	215	Generator Sets	1	8	14	0.74	17,819	18.5	963
PC & DC Struct and Enclosure	215	Cranes	1	7	367	0.29	160,177	18.5	8,658
PC & DC Struct and Enclosure	215	Welders	1	8	46	0.45	35,604	18.5	1,925
PC & DC Struct and Enclosure	215	Tractors/Loaders/ Backhoes	3	7	84	0.37	140,326	18.5	7,585

AS/DS Struct and Enclose	335	Forklifts	3	8	82	0.2	131,856	18.5	7,127
AS/DS Struct and Enclose	335	Generator Sets	1	8	14	0.74	27,765	18.5	1,501
AS/DS Struct and Enclose	335	Cranes	1	7	367	0.29	249,578	18.5	13,491
AS/DS Struct and Enclose	335	Welders	1	8	46	0.45	55,476	18.5	2,999
AS/DS Struct and Enclose	335	Tractors/Loaders/Backhoes	3	7	84	0.37	218,648	18.5	11,819
Reno of Ex 2-Story Office	245	Forklifts	3	8	82	0.2	96,432	18.5	5,213
Reno of Ex 2-Story Office	245	Cranes	1	7	367	0.29	182,527	18.5	9,866
PC & DC Finishes	120	Forklifts	3	8	82	0.2	47,232	18.5	2,553
PC & DC Finishes	120	Cranes	1	7	367	0.29	89,401	18.5	4,832
PC & DC Finishes	120	Welders	1	8	46	0.45	19,872	18.5	1,074
Parking Structure	200	Forklifts	3	8	82	0.2	78,720	18.5	4,255
Parking Structure	200	Generator Sets	1	8	14	0.74	16,576	18.5	896
Parking Structure	200	Cranes	1	7	367	0.29	149,002	18.5	8,054
Parking Structure	200	Welders	1	8	46	0.45	33,120	18.5	1,790
Parking Structure	200	Tractors/Loaders/Backhoes	3	7	84	0.37	130,536	18.5	7,056
Well Site Fencing	29	Tractors/Loaders/Backhoes	1	2	84	0.37	1,803	18.5	97
Well Drilling	65	Forklifts	1	5	82	0.2	5,330	18.5	288
Well Drilling	65	Tractors/Loaders/Backhoes	3	7	84	0.37	42,424	18.5	2,293
Well Drilling	65	Bore/Drill Rigs	1	24	83	0.5	64,740	18.5	3,499
Well Drilling	65	Tractors/Loaders/Backhoes	1	2	84	0.37	4,040	18.5	218
Well Drilling	65	Off-Highway Trucks	1	6	376	0.38	55,723	18.5	3,012
Well Building Construction	65	Cranes	1	4	367	0.29	27,672	18.5	1,496
Well Building Construction	65	Tractors/Loaders/Backhoes	1	6	84	0.37	12,121	18.5	655
Well Building Construction	65	Generator Sets	1	6	14	0.74	4,040	18.5	218
Water Tank	89	Cranes	1	7	367	0.29	66,306	18.5	3,584
Water Tank	89	Tractors/Loaders/Backhoes	1	3	82	0.37	8,101	18.5	438

Water Tank	89	Tractors/Loaders/ Backhoes	1	2	84	0.37	5,532	18.5	299
Water Tank	89	Air Compressors	1	6	37	0.48	9,484	18.5	513
Pump and Motor Install	10	Tractors/Loaders/ Backhoes	2	6	82	0.37	3,641	18.5	197
Pump and Motor Install	10	Tractors/Loaders/ Backhoes	1	5	84	0.37	1,554	18.5	84
Hydropneumatic Tank	10	Generator Sets	1	3	14	0.74	311	18.5	17
Hydropneumatic Tank	10	Cranes	1	1	367	0.29	1,064	18.5	58
Hydropneumatic Tank	10	Tractors/Loaders/ Backhoes	1	4	84	0.37	1,243	18.5	67
Treatment System	35	Generator Sets	1	1	14	0.74	363	18.5	20
Treatment System	35	Cranes	1	1	367	0.29	3,725	18.5	201
Treatment System	35	Tractors/Loaders/ Backhoes	2	8	84	0.37	17,405	18.5	941
Piping and Appurtenances	50	Generator Sets	1	5	14	0.74	2,590	18.5	140
Piping and Appurtenances	50	Tractors/Loaders/ Backhoes	1	2	84	0.37	3,108	18.5	168
Site Electrical Equipment	45	Forklifts	1	1	82	0.2	738	18.5	40
Site Electrical Equipment	45	Tractors/Loaders/ Backhoes	2	8	84	0.37	22,378	18.5	1,210
Paving on S and W of Site	125	Pavers	2	8	81	0.42	68,040	18.5	3,678
Paving on S and W of Site	125	Paving Equipment	2	8	89	0.36	64,080	18.5	3,464
Paving on S and W of Site	125	Rollers	2	8	36	0.38	27,360	18.5	1,479
Paint and Coatings	35	Air Compressors	1	5	37	0.48	3,108	18.5	168
Paint and Coatings	35	Generator Sets	1	5	14	0.74	1,813	18.5	98
Underground Electrical	25	Excavators	1	3	158	0.38	4,503	18.5	243
Underground Electrical	25	Tractors/Loaders/ Backhoes	1	3	84	0.37	2,331	18.5	126
Underground Electrical	25	Generator Sets	1	1	14	0.74	259	18.5	14
Underground Electrical	25	Off-Highway Trucks	1	2	376	0.38	7,144	18.5	386
Underground Pipeline	37	Tractors/Loaders/ Backhoes	1	6	84	0.37	6,900	18.5	373

Underground Pipeline	37	Excavators	1	3	158	0.38	6,664	18.5	360
Underground Pipeline	37	Air Compressors	1	3	37	0.48	1,971	18.5	107
Underground Pipeline	37	Off-Highway Trucks	1	2	376	0.38	10,573	18.5	572
Water Transmission Line	65	Tractors/Loaders/ Backhoes	1	6	84	0.37	12,121	18.5	655
Water Transmission Line	65	Trenchers	1	8	40	0.5	10,400	18.5	562
Total Phase 1 Diesel Consumption									284,332

Table C5-02A.1 Notes:

Phase and equipment information extracted from CalEEMod Project files.

HP = Horsepower

Fuel consumption estimate in brake-horsepower hour (bhp-hr) from CARB Carl Moyer Program Guidelines 2017

Revisions. Table D-21.

Appendix C5, Sheet 03B: Phase 1 Construction - Passenger Vehicle and Truck Fuel Consumption Estimate

Phase	Days	# of Trips Per Day	Dist (mi) Per Trip	Total VMT	Vehicle Class	% Workers by Vehicle Class	Gas AFE (MPG)	Gas Fuel Split	Gas Fuel Use by Class (gal)	Gas Fuel Use by Phase (gal)	Diesel AFE (MPG)	Diesel Fuel Split	Diesel Fuel Use by Class (gal)	Diesel Fuel Use by Phase (gal)	Electric AFE (mi per kWh)	Electric Fuel Split	Electricity Use by Class (kWh)	Electricity Use by Phase (kWh)
Worker Trips																		
Demolition of Existing Buildings	70	22.5	18.5	29138	LDA	0.5	29.8	94.1%	461	1,054	42.9	0.2%	0.6	1.3	2.7	5.7%	303.6	337.9
					LDT1	0.25	24.5	99.7%	296		24.3	0.0%	0.0		2.8	0.3%	7.7	
					LDT2	0.25	24.2	98.7%	297		33.1	0.3%	0.6		2.9	1.1%	26.5	
Demo of Sidewalk	8	7.5	18.5	1110	LDA	0.5	29.8	94.1%	18	40	42.9	0.2%	0.0	0.0	2.7	5.7%	11.6	12.9
					LDT1	0.25	24.5	99.7%	11		24.3	0.0%	0.0		2.8	0.3%	0.3	
					LDT2	0.25	24.2	98.7%	11		33.1	0.3%	0.0		2.9	1.1%	1.0	
Landscaping	110	17.5	18.5	35613	LDA	0.5	29.8	94.1%	563	1,288	42.9	0.2%	0.7	1.5	2.7	5.7%	371.1	412.9
					LDT1	0.25	24.5	99.7%	362		24.3	0.0%	0.0		2.8	0.3%	9.4	
					LDT2	0.25	24.2	98.7%	363		33.1	0.3%	0.8		2.9	1.1%	32.4	
Well Site Prep	11	5	18.5	1018	LDA	0.5	29.8	94.1%	16	37	42.9	0.2%	0.0	0.0	2.7	5.7%	10.6	11.8
					LDT1	0.25	24.5	99.7%	10		24.3	0.0%	0.0		2.8	0.3%	0.3	
					LDT2	0.25	24.2	98.7%	10		33.1	0.3%	0.0		2.9	1.1%	0.9	
Sitework (Grading and Utilities)	125	27.5	18.5	63594	LDA	0.5	29.8	94.1%	1,006	2,300	42.9	0.2%	1.3	2.7	2.7	5.7%	662.7	737.4
					LDT1	0.25	24.5	99.7%	646		24.3	0.0%	0.1		2.8	0.3%	16.8	
					LDT2	0.25	24.2	98.7%	647		33.1	0.3%	1.4		2.9	1.1%	57.8	
Paving on N and E of Site	80	12.5	18.5	18500	LDA	0.5	29.8	94.1%	293	669	42.9	0.2%	0.4	0.8	2.7	5.7%	192.8	214.5
					LDT1	0.25	24.5	99.7%	188		24.3	0.0%	0.0		2.8	0.3%	4.9	
					LDT2	0.25	24.2	98.7%	188		33.1	0.3%	0.4		2.9	1.1%	16.8	
Haven St Imp	170	12.5	18.5	39313	LDA	0.5	29.8	94.1%	622	1,422	42.9	0.2%	0.8	1.7	2.7	5.7%	409.7	455.8
					LDT1	0.25	24.5	99.7%	400		24.3	0.0%	0.0		2.8	0.3%	10.4	
					LDT2	0.25	24.2	98.7%	400		33.1	0.3%	0.9		2.9	1.1%	35.7	
6th St Imp	170	12.5	18.5	39313	LDA	0.5	29.8	94.1%	622	1,422	42.9	0.2%	0.8	1.7	2.7	5.7%	409.7	455.8
					LDT1	0.25	24.5	99.7%	400		24.3	0.0%	0.0		2.8	0.3%	10.4	
					LDT2	0.25	24.2	98.7%	400		33.1	0.3%	0.9		2.9	1.1%	35.7	
Rough Grading and Over Ex	18	7.5	18.5	2498	LDA	0.5	29.8	94.1%	40	90	42.9	0.2%	0.1	0.1	2.7	5.7%	26.0	29.0
					LDT1	0.25	24.5	99.7%	25		24.3	0.0%	0.0		2.8	0.3%	0.7	
					LDT2	0.25	24.2	98.7%	25		33.1	0.3%	0.1		2.9	1.1%	2.3	

Finish Grading	33	5	18.5	3053	LDA	0.5	29.8	94.1%	48	110	42.9	0.2%	0.1	0.1	2.7	5.7%	31.8	35.4
					LDT1	0.25	24.5	99.7%	31		24.3	0.0%	0.0		2.8	0.3%	0.8	
					LDT2	0.25	24.2	98.7%	31		33.1	0.3%	0.1		2.9	1.1%	2.8	
Paving and Sidewalk	21	17.5	18.5	6799	LDA	0.5	29.8	94.1%	108	246	42.9	0.2%	0.1	0.3	2.7	5.7%	70.9	78.8
					LDT1	0.25	24.5	99.7%	69		24.3	0.0%	0.0		2.8	0.3%	1.8	
					LDT2	0.25	24.2	98.7%	69		33.1	0.3%	0.1		2.9	1.1%	6.2	
PC & DC Struct and Enclosure	215	401	18.5	2E+06	LDA	0.5	29.8	94.1%	25,226	57,675	42.9	0.2%	32.2	68.6	2.7	5.7%	16621.6	18494.5
					LDT1	0.25	24.5	99.7%	16,213		24.3	0.0%	1.8		2.8	0.3%	422.6	
					LDT2	0.25	24.2	98.7%	16,237		33.1	0.3%	34.6		2.9	1.1%	1450.2	
AS/DS Struct and Enclose	335	401	18.5	2E+06	LDA	0.5	29.8	94.1%	39,306	89,866	42.9	0.2%	50.1	106.9	2.7	5.7%	25898.8	28816.9
					LDT1	0.25	24.5	99.7%	25,261		24.3	0.0%	2.9		2.8	0.3%	658.5	
					LDT2	0.25	24.2	98.7%	25,299		33.1	0.3%	53.9		2.9	1.1%	2259.6	
Reno of Ex 2-Story Office	245	401	18.5	2E+06	LDA	0.5	29.8	94.1%	28,746	65,723	42.9	0.2%	36.7	78.2	2.7	5.7%	18940.9	21075.1
					LDT1	0.25	24.5	99.7%	18,475		24.3	0.0%	2.1		2.8	0.3%	481.6	
					LDT2	0.25	24.2	98.7%	18,502		33.1	0.3%	39.4		2.9	1.1%	1652.6	
PC & DC Finishes	120	401	18.5	9E+05	LDA	0.5	29.8	94.1%	14,080	32,191	42.9	0.2%	18.0	38.3	2.7	5.7%	9277.2	10322.5
					LDT1	0.25	24.5	99.7%	9,049		24.3	0.0%	1.0		2.8	0.3%	235.9	
					LDT2	0.25	24.2	98.7%	9,062		33.1	0.3%	19.3		2.9	1.1%	809.4	
Parking Structure	200	401	18.5	1E+06	LDA	0.5	29.8	94.1%	23,466	53,651	42.9	0.2%	29.9	63.8	2.7	5.7%	15462.0	17204.1
					LDT1	0.25	24.5	99.7%	15,081		24.3	0.0%	1.7		2.8	0.3%	393.1	
					LDT2	0.25	24.2	98.7%	15,104		33.1	0.3%	32.2		2.9	1.1%	1349.0	
Well Site Fencing	29	6	18.5	3219	LDA	0.5	29.8	94.1%	51	116	42.9	0.2%	0.1	0.1	2.7	5.7%	33.5	37.3
					LDT1	0.25	24.5	99.7%	33		24.3	0.0%	0.0		2.8	0.3%	0.9	
					LDT2	0.25	24.2	98.7%	33		33.1	0.3%	0.1		2.9	1.1%	2.9	
Well Drilling	65	12	18.5	14430	LDA	0.5	29.8	94.1%	228	522	42.9	0.2%	0.3	0.6	2.7	5.7%	150.4	167.3
					LDT1	0.25	24.5	99.7%	147		24.3	0.0%	0.0		2.8	0.3%	3.8	
					LDT2	0.25	24.2	98.7%	147		33.1	0.3%	0.3		2.9	1.1%	13.1	
Well Building Construction	65	8	18.5	9620	LDA	0.5	29.8	94.1%	152	348	42.9	0.2%	0.2	0.4	2.7	5.7%	100.3	111.5
					LDT1	0.25	24.5	99.7%	98		24.3	0.0%	0.0		2.8	0.3%	2.5	
					LDT2	0.25	24.2	98.7%	98		33.1	0.3%	0.2		2.9	1.1%	8.7	
Water Tank	89	6	18.5	9879	LDA	0.5	29.8	94.1%	156	357	42.9	0.2%	0.2	0.4	2.7	5.7%	103.0	114.6
					LDT1	0.25	24.5	99.7%	100		24.3	0.0%	0.0		2.8	0.3%	2.6	
					LDT2	0.25	24.2	98.7%	101		33.1	0.3%	0.2		2.9	1.1%	9.0	
Pump and Motor Install	10	6	18.5	1110	LDA	0.5	29.8	94.1%	18	40	42.9	0.2%	0.0	0.0	2.7	5.7%	11.6	12.9
					LDT1	0.25	24.5	99.7%	11		24.3	0.0%	0.0		2.8	0.3%	0.3	
					LDT2	0.25	24.2	98.7%	11		33.1	0.3%	0.0		2.9	1.1%	1.0	

Hydropneumatic Tank	10	6	18.5	1110	LDA	0.5	29.8	94.1%	18	40	42.9	0.2%	0.0	0.0	2.7	5.7%	11.6	12.9
					LDT1	0.25	24.5	99.7%	11		24.3	0.0%	0.0		2.8	0.3%	0.3	
					LDT2	0.25	24.2	98.7%	11		33.1	0.3%	0.0		2.9	1.1%	1.0	
Treatment System	35	6	18.5	3885	LDA	0.5	29.8	94.1%	61	140	42.9	0.2%	0.1	0.2	2.7	5.7%	40.5	45.0
					LDT1	0.25	24.5	99.7%	39		24.3	0.0%	0.0		2.8	0.3%	1.0	
					LDT2	0.25	24.2	98.7%	40		33.1	0.3%	0.1		2.9	1.1%	3.5	
Piping and Appurtenances	50	6	18.5	5550	LDA	0.5	29.8	94.1%	88	201	42.9	0.2%	0.1	0.2	2.7	5.7%	57.8	64.4
					LDT1	0.25	24.5	99.7%	56		24.3	0.0%	0.0		2.8	0.3%	1.5	
					LDT2	0.25	24.2	98.7%	56		33.1	0.3%	0.1		2.9	1.1%	5.0	
Site Electrical Equipment	45	6	18.5	4995	LDA	0.5	29.8	94.1%	79	181	42.9	0.2%	0.1	0.2	2.7	5.7%	52.1	57.9
					LDT1	0.25	24.5	99.7%	51		24.3	0.0%	0.0		2.8	0.3%	1.3	
					LDT2	0.25	24.2	98.7%	51		33.1	0.3%	0.1		2.9	1.1%	4.5	
Paving on S and W of Site	125	15	18.5	34688	LDA	0.5	29.8	94.1%	549	1,254	42.9	0.2%	0.7	1.5	2.7	5.7%	361.5	402.2
					LDT1	0.25	24.5	99.7%	353		24.3	0.0%	0.0		2.8	0.3%	9.2	
					LDT2	0.25	24.2	98.7%	353		33.1	0.3%	0.8		2.9	1.1%	31.5	
Paint and Coatings	35	1	18.5	647.5	LDA	0.5	29.8	94.1%	10	23	42.9	0.2%	0.0	0.0	2.7	5.7%	6.7	7.5
					LDT1	0.25	24.5	99.7%	7		24.3	0.0%	0.0		2.8	0.3%	0.2	
					LDT2	0.25	24.2	98.7%	7		33.1	0.3%	0.0		2.9	1.1%	0.6	
Underground Electrical	25	6	18.5	2775	LDA	0.5	29.8	94.1%	44	100	42.9	0.2%	0.1	0.1	2.7	5.7%	28.9	32.2
					LDT1	0.25	24.5	99.7%	28		24.3	0.0%	0.0		2.8	0.3%	0.7	
					LDT2	0.25	24.2	98.7%	28		33.1	0.3%	0.1		2.9	1.1%	2.5	
Water Transmission Line	40	5	18.5	3700	LDA	0.5	29.8	94.1%	59	134	42.9	0.2%	0.1	0.2	2.7	5.7%	38.6	42.9
					LDT1	0.25	24.5	99.7%	38		24.3	0.0%	0.0		2.8	0.3%	1.0	
					LDT2	0.25	24.2	98.7%	38		33.1	0.3%	0.1		2.9	1.1%	3.4	
Underground Pipeline	37	6	18.5	4107	LDA	0.5	29.8	94.1%	65	149	42.9	0.2%	0.1	0.2	2.7	5.7%	42.8	47.6
					LDT1	0.25	24.5	99.7%	42		24.3	0.0%	0.0		2.8	0.3%	1.1	
					LDT2	0.25	24.2	98.7%	42		33.1	0.3%	0.1		2.9	1.1%	3.7	
							Gasoline (gal)		311,389	Diesel (gal)			370	Electricity (kWh)			99,852	

Vendor Trips																		
Landscaping	110	4	10.2	4488	MHDT	0.5	5.2	11.2%	48	48	9.0	88.5%	222	595	1.0	0.3%	7.6	18.6
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	374		0.6	0.3%	11.1	
Well Site Prep	11	3	10.2	336.6	MHDT	0.5	5.2	0.1	4	4	9.0	88.5%	17	45	1.0	0.3%	0.6	1.4
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	28		0.6	0.3%	0.8	
Rough Grading and Over Ex	18	2	10.2	367.2	MHDT	0.5	5.2	0.1	4	4	9.0	88.5%	18	49	1.0	0.3%	0.6	1.5
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	31		0.6	0.3%	0.9	
PC & DC Struct and Enclosure	215	158	10.2	3E+05	MHDT	0.5	5.2	0.1	3,719	3,719	9.0	88.5%	17,124	45,967	1.0	0.3%	583.4	1,437.7
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	28,843		0.6	0.3%	854.3	
AD/DS Struct and Enclose	335	158	10.2	5E+05	MHDT	0.5	5.2	0.1	5,795	5,795	9.0	88.5%	26,682	71,623	1.0	0.3%	909.1	2,240.2
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	44,941		0.6	0.3%	1331.1	
Reno of Ex 2-Story Office	245	158	10.2	4E+05	MHDT	0.5	5.2	0.1	4,238	4,238	9.0	88.5%	19,514	52,381	1.0	0.3%	664.8	1,638.3
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	32,867		0.6	0.3%	973.5	
PC & DC Finishes	120	158	10.2	2E+05	MHDT	0.5	5.2	0.1	2,076	2,076	9.0	88.5%	9,558	25,656	1.0	0.3%	325.6	802.5
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	16,098		0.6	0.3%	476.8	
Parking Structure	200	158	10.2	3E+05	MHDT	0.5	5.2	0.1	3,460	3,460	9.0	88.5%	15,929	42,760	1.0	0.3%	542.7	1,337.4
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	26,831		0.6	0.3%	794.7	
Well Site Fencing	29	2	10.2	591.6	MHDT	0.5	5.2	0.1	6	6	9.0	88.5%	29	78	1.0	0.3%	1.0	2.5
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	49		0.6	0.3%	1.5	
Well Drilling	65	2	10.2	1326	MHDT	0.5	5.2	0.1	14	14	9.0	88.5%	66	176	1.0	0.3%	2.2	5.5
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	110		0.6	0.3%	3.3	
Well Building Construction	65	2	10.2	1326	MHDT	0.5	5.2	0.1	14	14	9.0	88.5%	66	176	1.0	0.3%	2.2	5.5
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	110		0.6	0.3%	3.3	
Water Tank	89	2	10.2	1816	MHDT	0.5	5.2	0.1	19	19	9.0	88.5%	90	241	1.0	0.3%	3.1	7.5
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	151		0.6	0.3%	4.5	
Pump and Motor Install	10	2	10.2	204	MHDT	0.5	5.2	0.1	2	2	9.0	88.5%	10	27	1.0	0.3%	0.3	0.8
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	17		0.6	0.3%	0.5	
Hydropneumatic Tank	10	2	10.2	204	MHDT	0.5	5.2	0.1	2	2	9.0	88.5%	10	27	1.0	0.3%	0.3	0.8
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	17		0.6	0.3%	0.5	

Treatment System	35	2	10.2	714	MHDT	0.5	5.2	0.1	8	8	9.0	88.5%	35	95	1.0	0.3%	1.2	3.0
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	59		0.6	0.3%	1.8	
Piping and Appurtenances	50	2	10.2	1020	MHDT	0.5	5.2	0.1	11	11	9.0	88.5%	50	135	1.0	0.3%	1.7	4.2
					HHDT	0.5	3.7	0.0%	0		6.0	99.7%	85		0.6	0.3%	2.5	
Site Electrical Equipment	45	1.88	10.2	862.9	MHDT	0.5	5.2	0.1	9	9	9.0	88.5%	43	114	1.0	0.3%	1.5	3.6
					HHDT	0.5	3.7	0.0%	N/A		6.0	99.7%	72		0.6	0.3%	2.1	
							Gasoline (gal)			19,429	Diesel (gal)			240,146	Electricity (kWh)			7,511
Hauling Trips																		
Demolition of Existing Buildings	70	28.9	20	578	HHDT	1.0	N/A	0.0%	N/A	0	6.0	100.0%	97	97	N/A	0.0%	0.0	0.0
Well Site Prep	11	42.9	20	858	HHDT	1.0	N/A	0.0%	N/A	0	6.0	100.0%	143	143	N/A	0.0%	0.0	0.0
Sitework (Grading and Utilities)	125	122	20	2440	HHDT	1.0	N/A	0.0%	N/A	0	6.0	100.0%	407	407	N/A	0.0%	0.0	0.0
							Gasoline (gal)			0	Diesel (gal)			647	Electricity (kWh)			0
Total On-Road Construction Trips Genergy Usage							Gasoline (gal)			330,818	Diesel (gal)			241,163	Electricity (kWh)			107,363

Appendix C5, Sheet 04A: Phase 2 Construction On-site Fuel Consumption Estimations

Construction Phase	Days	Equipment	# of Pieces	Hr/Day	Horsepower	Load Factor	Runtime (bhp-hr)	Consumption (bhp-hr/gal) ¹	Gallons of Diesel
Demolition	20	Rubber Tired Dozers	2	8	367	0.4	46,976	18.5	2,539
Demolition	20	Excavators	3	8	36	0.38	6,566	18.5	355
Demolition	20	Concrete/Industrial Saws	1	8	33	0.73	3,854	18.5	208
Site Preparation	10	Rubber Tired Dozers	3	8	367	0.4	35,232	18.5	1,904
Site Preparation	10	Tractors/Loaders/Backhoes	4	8	84	0.37	9,946	18.5	538
Grading	20	Graders	1	8	148	0.41	9,709	18.5	525
Grading	20	Excavators	1	8	36	0.38	2,189	18.5	118
Grading	20	Tractors/Loaders/Backhoes	3	8	84	0.37	14,918	18.5	806
Grading	20	Rubber Tired Dozers	1	8	367	0.4	23,488	18.5	1,270
Building Construction	230	Cranes	1	7	367	0.29	171,352	18.5	9,262
Building Construction	230	Forklifts	3	8	82	0.2	90,528	18.5	4,893
Building Construction	230	Generator Sets	1	8	14	0.74	19,062	18.5	1,030
Building Construction	230	Welders	1	8	46	0.45	38,088	18.5	2,059
Building Construction	230	Tractors/Loaders/Backhoes	3	7	84	0.37	150,116	18.5	8,114
Cogen Facility Construction	230	Forklifts	3	8	82	0.2	90,528	18.5	4,893
Cogen Facility Construction	230	Generator Sets	1	8	14	0.74	19,062	18.5	1,030
Cogen Facility Construction	230	Cranes	1	7	367	0.29	171,352	18.5	9,262
Cogen Facility Construction	230	Welders	1	8	46	0.45	38,088	18.5	2,059
Cogen Facility Construction	230	Tractors/Loaders/Backhoes	3	7	84	0.37	150,116	18.5	8,114
Paving	20	Pavers	2	8	81	0.42	10,886	18.5	588
Paving	20	Paving Equipment	2	8	89	0.36	10,253	18.5	554
Paving	20	Rollers	2	8	36	0.38	4,378	18.5	237
Architectural Coating	20	Air Compressors	1	6	37	0.48	2,131	18.5	115
Total Phase 1 Diesel Consumption									60,477

¹ The Carl Moyer Program Guidelines 2017 Revisions. Table D-21. Approved by the Board April 27, 2017.

Appendix C5, Sheet 04B: Phase 2 Construction Off-site Fuel Consumption Estimates

Phase	Days	Number of Trips	Dist (mi)	Total VMT	Vehicle Class	Percent of Workers by Vehcile Class	Gas Average Fuel Economy (MPG)	Gas Fuel Split	Gas Fuel Use by Class (gal)	Gas Fuel Use by Phase (gal)	Diesel Average Fuel Economy (MPG)	Diesel Fuel Split	Diesel Fuel Use by Class (gal)	Diesel Fuel Use by Phase (gal)	Electric Average Fuel Economy (miles per kWh)	Electric Fuel Split	Electricity Use by Class (kWh)	Electricity Use by Phase (kWh)
Worker Trips																		
Demolition	20	16	18.5	5920	LDA	0.5	31.0	92.4%	88	203	42.9	0.1%	0	0.2	2.7	7.5%	81	92.1
					LDT1	0.25	25.5	99.4%	58		24.3	0.0%	0		2.8	0.6%	3	
					LDT2	0.25	25.5	98.1%	57		33.1	0.3%	0		2.9	1.5%	8	
Site Preparation	10	12	18.5	2220	LDA	0.5	31.0	92.4%	33	76	42.9	0.1%	0.0	0.1	2.7	7.5%	30.4	34.5
					LDT1	0.25	25.5	99.4%	22		24.3	0.0%	0.0		2.8	0.6%	1.2	
					LDT2	0.25	25.5	98.1%	21		33.1	0.3%	0.1		2.9	1.5%	3.0	
Grading	20	16	18.5	5920	LDA	0.5	31.0	92.4%	88	203	42.9	0.1%	0.1	0.2	2.7	7.5%	81.0	92.1
					LDT1	0.25	25.5	99.4%	58		24.3	0.0%	0.0		2.8	0.6%	3.2	
					LDT2	0.25	25.5	98.1%	57		33.1	0.3%	0.1		2.9	1.5%	8.0	
Building Construction	230	14	18.5	59570	LDA	0.5	31.0	92.4%	889	2,042	42.9	0.1%	1.0	2.4	2.7	7.5%	814.6	926.9
					LDT1	0.25	25.5	99.4%	581		24.3	0.0%	0.0		2.8	0.6%	32.2	
					LDT2	0.25	25.5	98.1%	573		33.1	0.3%	1.4		2.9	1.5%	80.1	
Cogen Facility	230	70	18.5	3E+05	LDA	0.5	31.0	92.4%	4,444	10,212	42.9	0.1%	5.1	12.2	2.7	7.5%	4072.9	4634.5
					LDT1	0.25	25.5	99.4%	2,903		24.3	0.0%	0.2		2.8	0.6%	161.0	
					LDT2	0.25	25.5	98.1%	2,865		33.1	0.3%	6.9		2.9	1.5%	400.6	
Paving	20	16	18.5	5920	LDA	0.5	31.0	92.4%	88	203	42.9	0.1%	0.1	0.2	2.7	7.5%	81.0	92.1
					LDT1	0.25	25.5	99.4%	58		24.3	0.0%	0.0		2.8	0.6%	3.2	
					LDT2	0.25	25.5	98.1%	57		33.1	0.3%	0.1		2.9	1.5%	8.0	
Architectural Coating	20	20	18.5	7400	LDA	0.5	31.0	92.4%	110	254	42.9	0.1%	0.1	0.3	2.7	7.5%	101.2	115.1
					LDT1	0.25	25.5	99.4%	72		24.3	0.0%	0.0		2.8	0.6%	4.0	
					LDT2	0.25	25.5	98.1%	71		33.1	0.3%	0.2		2.9	1.5%	10.0	
							Gasoline (gal)			13,193	Diesel (gal)			16	Electricity (kWh)			5,987
Vendor Trips																		
Building Construction	160	9	10.2	14688	MHDT	0.5	5.3	10.4%	144	144	9.0	87.9%	714	1,893	1.0	1.7%	129.7	272.3
					HHDT	0.5	4.3	0.0%	0		6.2	98.9%	1,179		0.6	1.1%	142.7	
Cogen Facility	160	9	10.2	14688	MHDT	0.5	5.3	10.4%	144	144	9.0	87.9%	714	1,893	1.0	0.3%	24.7	60.9
					HHDT	0.5	4.3	0.0%	0		6.2	98.9%	1,179		0.6	0.3%	36.2	
							Gasoline (gal)			287	Diesel (gal)			3,787	Electricity (kWh)			333
Hauling Trips																		
Demolition	20	30	20	600	HHDT	1.0	N/A	0.0%	N/A	0	6.2	100.0%	97	97	N/A	0.0%	0.0	0.0
Grading	20	23	20	460	HHDT	1.0	N/A	0.0%	N/A	0	6.2	100.0%	75	75	N/A	0.0%	0.0	
Total On-Road Construction Trips Genergy Usage							Gasoline (gal)			13,337	Diesel (gal)			2,081	Electricity (kWh)			6,260

Appendix C5, Sheet 05: Phase 1 and Phase 2 Operations - Building Energy Summary

Phase 1 Unmitigated

Land Use	Lot Acreage	Building Square Footage	Electricity Consumption		Natural Gas Consumption	
			kWh/Yr	GWh/Yr	kBTU/Yr	MMBtu/Yr
General Office Building	0.8	64,501	1,125,664.0	1.1	1,769,909.0	1,769.9
UF Warehouse (DC+AS/RS)	4.7	239,754	20,305,614.0	20.3	4,557,886.0	4,557.9
Manufacturing (PC)	4.8	351,601	11,853,707.0	11.9	15,078,800.0	15,078.8
Parking Structure	1.5	127,031	333,837.0	0.3	0.0	0.0
Parking w/ Elevator	1.2	280,444	587,395.0	0.6	0.0	0.0
User-Defined (Well)	0.1	3,800	783,000.0	0.8	0.0	0.0
Parking Lot	15.6	0	597,108.0	0.6	0.0	0.0
RF Warehouse (DC+ASRS)	0.0	1,000	21,895.0	0.0	26,344.0	26.3
UF Warehouse (7th St)	1.4	62,210	287,330.0	0.3	1,182,654.0	1,182.7
TOTAL	--	--	35,895,550.0	35.9	22,615,593.0	22,615.6

Phase 2 Unmitigated

Land Use	Lot Acreage	Building Square Footage	Electricity Consumption		Natural Gas Consumption	
			kWh/Yr	GWh/Yr	kBTU/Yr	MMBtu/Yr
General Office Building	0.8	64,501	1,125,664.0	1.1	1,769,909.0	1,769.9
UF Warehouse (DC+AS/RS)	4.7	239,754	7,677,478.0	7.7	4,557,886.0	4,557.9
Manufacturing (PC)	4.8	351,601	4,481,843.0	4.5	15,078,800.0	15,078.8
Parking Structure	1.5	127,031	333,837.0	0.3	0.0	0.0
Parking w/ Elevator	1.2	280,444	587,395.0	0.6	0.0	0.0
User-Defined (Well)	0.1	3,800	783,000.0	0.8	0.0	0.0
Parking Lot	15.6	0	597,108.0	0.6	0.0	0.0
RF Warehouse (DC+ASRS)	0.0	1,000	21,895.0	0.0	26,344.0	26.3
UF Warehouse (7th St)	1.4	62,210	287,330.0	0.3	1,182,654.0	1,182.7
TOTAL	--	--	15,895,550.0	15.9	22,615,593.0	22,615.6

Phase 1 Mitigated

Land Use	Lot Acreage	Building Square Footage	Electricity Consumption		Natural Gas Consumption	
			kWh/Yr	GWh/Yr	kBTU/Yr	MMBtu/Yr
General Office Building	0.8	64,501	1,088,638.0	1.1	1,712,275.0	1,712.3
UF Warehouse (DC+AS/RS)	4.7	239,754	19,874,448.0	19.9	4,557,475.0	4,557.5
Manufacturing (PC)	4.8	351,601	11,421,759.0	11.4	14,965,937.0	14,965.9
Parking Structure	1.5	127,031	333,837.0	0.3	0.0	0.0
Parking w/ Elevator	1.2	280,444	587,395.0	0.6	0.0	0.0
User-Defined (Well)	0.1	3,800	783,000.0	0.8	0.0	0.0
Parking Lot	15.6	0	597,108.0	0.6	0.0	0.0
RF Warehouse (DC+ASRS)	0.0	1,000	21,888.0	0.0	26,344.0	26.3
UF Warehouse (7th St)	1.4	62,210	287,330.0	0.3	1,182,654.0	1,182.7
TOTAL	--	--	34,995,403.0	35.0	22,444,685.0	22,444.7

Phase 2 Mitigated

Land Use	Lot Acreage	Building Square Footage	Electricity Consumption		Natural Gas Consumption	
			kWh/Yr	GWh/Yr	kBTU/Yr	MMBtu/Yr
General Office Building	0.8	64,501	1,088,638.0	1.1	1,712,275.0	1,712.3
UF Warehouse (DC+AS/RS)	4.7	239,754	7,514,455.0	7.5	4,557,475.0	4,557.5
Manufacturing (PC)	4.8	351,601	4,318,525.0	4.3	14,965,937.0	14,965.9
Parking Structure	1.5	127,031	333,837.0	0.3	0.0	0.0
Parking w/ Elevator	1.2	280,444	587,395.0	0.6	0.0	0.0
User-Defined (Well)	0.1	3,800	783,000.0	0.8	0.0	0.0
Parking Lot	15.6	0	597,108.0	0.6	0.0	0.0
RF Warehouse (DC+ASRS)	0.0	1,000	21,895.0	0.0	26,344.0	26.3
UF Warehouse (7th St)	1.4	62,210	281,228.0	0.3	1,182,548.0	1,182.5
TOTAL	--	--	15,526,081.0	15.5	22,444,579.0	22,444.6

Appendix C5, Sheet 06: Phase 1 and Phase 2 Operations - Stationary Source Energy Summary

SOURCE	Natural Gas Combustion (MMBTU Per Year)					
	Phase 1		Phase 2 Without Thermal Recovery		Phase 2 With Thermal Recovery	
	Annual Average	Maximum Potential	Annual Average	Maximum Potential	Annual Average	Maximum Potential
Tray Shrink Packers (TSP)						
TSP 1	1,982	1,982	1,982	1,982	1,982	1,982
TSP 1	1,982	1,982	1,982	1,982	1,982	1,982
TSP 1	1,982	1,982	1,982	1,982	1,982	1,982
<i>TSP Subtotal</i>	<i>5,945</i>	<i>5,945</i>	<i>5,945</i>	<i>5,945</i>	<i>5,945</i>	<i>5,945</i>
Boilers						
Primary 1	90,388	108,510	90,388	108,510	90,388	108,510
Primary 2	--	--	90,388	108,510	42,612	60,734
Backup	4,519	0	9,039	0	9,039	0
<i>Boiler Subtotal</i>	<i>94,907.3</i>	<i>108,510.1</i>	<i>189,814.7</i>	<i>217,020.2</i>	<i>142,038.7</i>	<i>169,244.2</i>
Cogeneration System						
Generator 1	--	--	101,848	111,524	101,848	111,524
Generator 2	--	--	101,848	111,524	101,848	111,524
<i>Cogeneration Subtotal</i>	<i>0.0</i>	<i>0.0</i>	<i>203,696.0</i>	<i>223,047.1</i>	<i>203,696.0</i>	<i>223,047.1</i>
TOTAL	100,852.0	114,454.8	399,455.3	446,012.0	351,679.3	398,236.0

Appendix C5, Sheet 07: Proposed Operational Fuel Consumption Estimates

Table 1: Phase 1 Fuel Consumption Estimates for Passenger Vehicles

Vehicle	Breakdown	Fuel Split			Fuel Economy			Fuel Consumption		
		Gas	Diesel	Electric	Gas	Diesel	Electric	Gas	Diesel	Electric
HHDT		0.0%	98.9%	1.1%	4.26	6.16	0.56	0.0	0.0	0.0
LDA	54.2%	92.4%	0.1%	7.5%	30.96	43.82	2.73	142,429.7	159.3	130,537.7
LDT1	4.3%	99.4%	0.0%	0.6%	25.49	24.52	2.80	14,685.3	1.2	814.4
LDT2	22.6%	98.1%	0.3%	1.5%	25.51	34.65	2.87	76,551.9	176.7	10,704.6
LHDT1		58.3%	40.0%	1.7%	14.26	20.75	1.78	0.0	0.0	0.0
LHDT2		33.6%	64.9%	1.6%	12.46	17.42	1.78	0.0	0.0	0.0
MCY	2.3%	100.0%	0.0%	0.0%	42.30	0.00	0.00	4,734.2	0.0	0.0
MDV	16.6%	96.8%	1.2%	2.0%	20.65	24.69	2.79	68,683.2	736.6	10,259.1
MH		69.8%	30.2%	0.0%	4.89	10.22	0.00	0.0	0.0	0.0
MHDT		10.4%	87.9%	1.7%	5.33	9.04	0.96	0.0	0.0	0.0
Phase 1 General Office Sub-Total								307,084.3	1,073.8	152,315.8

VMT 8,804,974

Table 2: Phase 1 Fuel Consumption Estimates for Trucks

Vehicle	Breakdown	Fuel Split			Fuel Economy			Fuel Consumption		
		Gas	Diesel	Electric	Gas	Diesel	Electric	Gas	Diesel	Electric
HHDT	91.1%	0.0%	98.9%	1.1%	4.26	6.16	0.56	251.3	1,871,518.5	226,389.0
LDA		92.4%	0.1%	7.5%	30.96	43.82	2.73	0.0	0.0	0.0
LDT1		99.4%	0.0%	0.6%	25.49	24.52	2.80	0.0	0.0	0.0
LDT2		98.1%	0.3%	1.5%	25.51	34.65	2.87	0.0	0.0	0.0
LHDT1	4.0%	58.3%	40.0%	1.7%	14.26	20.75	1.78	21,184.8	9,984.2	4,992.4
LHDT1	1.1%	33.6%	64.9%	1.6%	12.46	17.42	1.78	3,811.7	5,268.0	1,233.4
MCY		100.0%	0.0%	0.0%	42.30	0.00	0.00	0.0	0.0	0.0
MDV		96.8%	1.2%	2.0%	20.65	24.69	2.79	0.0	0.0	0.0
MH		69.8%	30.2%	0.0%	4.89	10.22	0.00	0.0	0.0	0.0
MHDT	3.8%	10.4%	87.9%	1.7%	5.33	9.04	0.96	9,432.3	46,898.9	8,514.8
Phase 1 Unrefrigerated Warehouse Sub-Total								34,680.1	1,933,669.6	241,129.6

VMT 12,796,092

Phase 1 Overall Total 341,764.3 1,934,743.4 393,445.4

Tot VMT 21,601,066

Table 3: Phase 2 Fuel Consumption Estimates for Passenger Vehicles

Vehicle	Breakdown	Fuel Split			Fuel Economy			Fuel Consumption		
		Gas	Diesel	Electric	Gas	Diesel	Electric	Gas	Diesel	Electric
HHDT	0%	0.0%	98.3%	1.7%	4.47	6.25	0.56	0.0	0.0	0.0
LDA	54%	91.8%	0.1%	8.1%	31.57	44.44	2.73	138,709.0	143.4	142,134.3
LDT1	4%	99.2%	0.0%	0.8%	25.99	25.31	2.80	14,376.2	0.7	1,072.6
LDT2	23%	97.9%	0.3%	1.8%	26.10	35.34	2.87	74,638.8	177.5	12,306.9
LHDT1	0%	57.7%	39.5%	2.9%	14.52	20.78	1.79	0.0	0.0	0.0
LHDT2	0%	32.7%	64.8%	2.6%	12.63	17.48	1.78	0.0	0.0	0.0
MCY	2%	100.0%	0.0%	0.0%	42.45	0.00	0.00	4,717.3	0.0	0.0
MDV	17%	96.5%	1.2%	2.3%	21.13	25.18	2.79	66,910.1	708.1	12,001.1

MH	0%	69.1%	30.9%	0.0%	4.88	10.20	0.00	0.0	0.0	0.0
MHDT	0%	10.0%	87.2%	2.8%	5.38	9.07	0.96	0.0	0.0	0.0
Phase 2 General Office Sub-Total								299,351.4	1,029.7	167,514.8

VMT 8,804,974

Table 4: Phase 2 Fuel Consumption Estimates for Trucks

Vehicle	Breakdown	Fuel Split			Fuel Economy			Fuel Consumption		
		Gas	Diesel	Electric	Gas	Diesel	Electric	Gas	Diesel	Electric
HHDT	91.1%	0.0%	98.3%	1.7%	4.47	6.25	0.56	228.7	1,832,619.4	358,325.3
LDA	0.0%	91.8%	0.1%	8.1%	31.57	44.44	2.73	0.0	0.0	0.0
LDT1	0.0%	99.2%	0.0%	0.8%	25.99	25.31	2.80	0.0	0.0	0.0
LDT2	0.0%	97.9%	0.3%	1.8%	26.10	35.34	2.87	0.0	0.0	0.0
LHDT1	4.0%	57.7%	39.5%	2.9%	14.52	20.78	1.79	20,566.0	9,845.5	8,276.4
LHDT1	1.1%	32.7%	64.8%	2.6%	12.63	17.48	1.78	3,655.8	5,238.8	2,052.0
MCY	0.0%	100.0%	0.0%	0.0%	42.45	0.00	0.00	0.0	0.0	0.0
MDV	0.0%	96.5%	1.2%	2.3%	21.13	25.18	2.79	0.0	0.0	0.0
MH	0.0%	69.1%	30.9%	0.0%	4.88	10.20	0.00	0.0	0.0	0.0
MHDT	3.8%	10.0%	87.2%	2.8%	5.38	9.07	0.96	8,996.7	46,361.6	14,035.2
Phase 2 Unrefrigerated Warehouse Sub-Total								33,447.2	1,894,065.3	382,688.9

VMT 12,796,092

Phase 2 Overall Total 332,798.6 1,895,094.9 550,203.7

Appendix C5, Sheet 08: Average Fuel Efficiency - San Bernardino County (SC)

EMFAC2021 San Bernardino County Fuel Efficiency Estimates for 2024, 2026, and 2027

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	5.57	65,632.20	17,555.07	3.74
LDA	471,817.60	7,108,656,035.69	238,945,182.97	29.75
LDT1	40,777.15	490,527,517.74	20,006,019.37	24.52
LDT2	194,249.37	2,770,366,492.83	114,344,525.16	24.23
LHDT1	17,179.49	208,481,689.10	15,346,534.88	13.58
LHDT2	2,883.70	33,531,637.34	2,787,053.65	12.03
MCY	20,751.93	42,918,713.78	1,022,389.67	41.98
MDV	148,169.82	2,031,874,616.51	103,279,186.82	19.67
MH	3,401.97	9,880,592.44	2,022,448.20	4.89
MHDT	1,460.60	25,635,396.94	4,923,389.14	5.21
OBUS	370.02	5,168,863.66	1,012,113.04	5.11
SBUS	297.87	4,585,227.50	511,431.11	8.97
UBUS	54.72	1,718,010.10	132,909.22	12.93
TOTAL	901,419.81	12,733,410,425.82	504,350,738.30	25.25

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	14,232.0	551,042,326.43	92,002,932.90	5.99
LDA	1,047.59	13,077,704.42	304,694.00	42.92
LDT1	10.72	55,107.22	2,270.24	24.27
LDT2	520.90	8,078,084.97	243,685.16	33.15
LHDT1	11,382.10	142,493,007.46	6,928,746.33	20.57
LHDT2	4,825.53	61,039,665.72	3,552,258.74	17.18
MCY	0.00	0.00	0.00	0.00
MDV	1,910.88	26,864,024.48	1,129,452.06	23.79
MH	1,336.40	3,946,369.35	385,834.26	10.23
MHDT	14,946.47	202,976,493.91	22,669,390.63	8.95
OBUS	210.55	4,437,514.63	600,064.55	7.40
SBUS	373.29	2,533,365.66	344,145.14	7.36
UBUS	4.56	147,096.84	14,214.29	10.35
TOTAL	50,800.95	1,016,690,761.08	128,177,688.31	7.93

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/day)	Miles Per kWh
HHDT	48.63	1,514,395.86	2,724,993.94	0.56
LDA	31,787.74	432,233,324.20	157,443,334.27	2.75
LDT1	110.09	1,461,592.33	521,481.49	2.80
LDT2	2,793.87	29,638,346.88	10,212,887.57	2.90
LHDT1	52.74	1,282,659.76	718,973.21	1.78
LHDT2	13.65	314,553.55	176,464.27	1.78
MCY	0.00	0.00	0.00	0.00
MDV	2,356.18	25,944,442.91	9,231,611.31	2.81
MH	0.00	0.00	0.00	0.00
MHDT	46.14	737,631.43	772,374.81	0.96
OBUS	0.81	21,328.85	22,399.05	0.95
SBUS	2.21	18,416.71	21,295.26	0.86
UBUS	7.33	363,414.40	711,016.39	0.51
TOTAL	37,219.39	493,530,106.88	182,556,831.57	2.70

Table 4: 2026 San Bernardino County Average Vehicle Fuel Efficiency (Gasoline)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	2.63	53,073.46	12,456.80	4.26
LDA	470,825.66	7,015,980,433.59	226,603,589.17	30.96
LDT1	39,164.23	472,668,275.10	18,543,814.60	25.49
LDT2	204,869.62	2,911,993,728.48	114,147,879.94	25.51
LHDT1	16,791.83	205,879,695.78	14,441,949.59	14.26
LHDT2	2,763.22	31,789,315.51	2,551,776.24	12.46
MCY	20,884.25	42,672,552.10	1,008,912.06	42.30
MDV	148,659.00	2,035,510,857.80	98,565,878.70	20.65
MH	3,064.47	8,841,690.45	1,808,521.51	4.89
MHDT	1,396.24	24,637,228.38	4,623,164.67	5.33
OBUS	348.52	4,690,908.74	900,790.39	5.21
SBUS	302.90	4,650,679.45	515,947.43	9.01
UBUS	54.94	1,724,945.45	133,369.59	12.93
TOTAL	909,127.51	12,761,093,384.28	483,858,050.70	26.37

Table 6: 2026 San Bernardino County Average Vehicle Fuel Efficiency (Electricity)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/day)	Miles Per kWh
HHDT	191.07	6,231,839.70	11,221,056.89	0.56
LDA	40,653.70	566,834,048.82	207,683,720.07	2.73
LDT1	210.33	2,880,721.76	1,028,327.35	2.80
LDT2	4,321.57	45,879,219.16	15,961,802.77	2.87
LHDT1	282.09	6,070,995.50	3,403,413.47	1.78
LHDT2	71.81	1,471,680.86	825,692.90	1.78
MCY	0.00	0.00	0.00	0.00
MDV	3,732.55	41,123,075.33	14,722,618.77	2.79
MH	0.00	0.00	0.00	0.00
MHDT	245.88	3,986,030.31	4,173,436.55	0.96
OBUS	3.34	84,707.71	88,958.04	0.95
SBUS	8.07	74,633.99	86,299.39	0.86
UBUS	11.78	625,132.19	1,223,068.12	0.51
TOTAL	49,732.20	675,262,085.34	260,418,394.32	2.59

Table 5: 2026 San Bernardino County Average Vehicle Fuel Efficiency (Diesel)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	15,084.8	571,364,188.09	92,762,516.57	6.16
LDA	917.79	11,101,933.23	253,374.23	43.82
LDT1	7.52	37,288.12	1,521.01	24.52
LDT2	597.00	9,128,965.90	263,474.60	34.65
LHDT1	11,393.65	141,208,644.10	6,806,371.37	20.75
LHDT2	4,937.58	61,431,305.96	3,526,756.12	17.42
MCY	0.00	0.00	0.00	0.00
MDV	1,900.73	26,099,669.32	1,057,096.11	24.69
MH	1,320.03	3,818,366.82	373,741.27	10.22
MHDT	15,710.21	207,778,172.09	22,987,007.70	9.04
OBUS	220.04	4,452,651.14	591,095.05	7.53
SBUS	353.63	2,363,658.22	319,316.10	7.40
UBUS	4.53	146,321.63	14,164.87	10.33
TOTAL	52,447.45	1,038,931,164.62	128,956,435.00	8.06

Table 7: 2027 San Bernardino County Average Vehicle Fuel Efficiency (Gasoline)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	2.03	51,811.42	11,592.79	4.47
LDA	470,807.60	6,989,042,274.15	221,367,136.35	31.57
LDT1	38,465.61	465,356,022.54	17,906,603.85	25.99
LDT2	210,263.50	2,981,646,132.92	114,229,270.70	26.10
LHDT1	16,631.76	204,149,161.85	14,058,009.96	14.52
LHDT2	2,701.10	30,903,906.04	2,446,203.31	12.63
MCY	20,938.60	42,574,983.86	1,003,016.52	42.45
MDV	149,173.83	2,041,575,508.39	96,610,244.53	21.13
MH	2,916.37	8,416,091.81	1,723,355.30	4.88
MHDT	1,363.93	24,100,029.71	4,479,228.80	5.38
OBUS	338.50	4,473,073.38	852,310.59	5.25
SBUS	305.31	4,680,209.17	517,991.66	9.04
UBUS	55.05	1,728,357.04	133,997.06	12.90
TOTAL	913,963.18	12,798,697,562.27	475,338,961.41	26.93

Table 9: 2027 San Bernardino County Average Vehicle Fuel Efficiency (Electricity)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/day)	Miles Per kWh
HHDT	309.53	10,097,280.29	18,167,073.78	0.56
LDA	44,575.69	618,212,083.71	226,833,552.70	2.73
LDT1	272.93	3,738,950.10	1,335,966.53	2.80
LDT2	5,111.61	53,972,716.73	18,834,798.91	2.87
LHDT1	483.30	10,099,083.55	5,657,391.90	1.79
LHDT2	122.94	2,448,702.32	1,373,044.64	1.78
MCY	0.00	0.00	0.00	0.00
MDV	4,418.48	48,316,920.68	17,328,133.82	2.79
MH	0.00	0.00	0.00	0.00
MHDT	415.44	6,678,374.26	6,987,759.72	0.96
OBUS	5.33	133,402.59	140,101.75	0.95
SBUS	13.01	120,706.58	139,573.18	0.86
UBUS	29.13	1,490,753.81	2,919,527.69	0.51
TOTAL	55,757.40	755,308,974.62	299,716,924.63	2.52

Table 8: 2027 San Bernardino County Average Vehicle Fuel Efficiency (Diesel)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	15,410.1	580,722,688.64	92,913,714.23	6.25
LDA	838.7	10,166,496.33	228,775.23	44.44
LDT1	4.4	22,616.67	893.42	25.31
LDT2	631.0	9,599,506.56	271,624.77	35.34
LHDT1	11,353.6	139,865,919.03	6,729,955.19	20.78
LHDT2	4,973.2	61,290,839.47	3,505,366.99	17.48
MCY	0.0	0.00	0.00	0.00
MDV	1,888.5	25,739,839.48	1,022,413.21	25.18
MH	1,309.2	3,757,777.24	368,532.92	10.20
MHDT	16,024.9	209,353,541.21	23,082,267.98	9.07
OBUS	224.3	4,468,269.53	587,801.24	7.60
SBUS	342.2	2,276,621.74	306,601.11	7.43
UBUS	4.5	146,321.63	14,209.39	10.30
TOTAL	53,004.57	1,047,410,437.52	129,032,155.69	8.12

Appendix C5, Sheet 09: Operational Electricity Consumption

Table 1: Actual Electricity Consumption

Land Use	Monthly kWh/SF	Annualized kWh/SF
Warehouse (DC & AS/RS)	7.67	92.06
Manufacturing (PC)	3.05	36.64

Note: Obtained from RCCB Downey and Los Angeles data 2024

Table 2: Electricity Consumption by Land Use

Land Use	Square Footage	Annualized kWh/SF	Electricity Consumption Rate (kWh/yr)	Data Source
General Office Building	64,501	--	1,125,664	CalEEMod Default
Unrefrigerated Warehouse (DC & AS/RS)	239,754	92.06	22,071,156	RCCB Downey and Los Angeles
Manufacturing (PC)	351,601	36.64	12,884,368	RCCB Downey and Los Angeles
Elevated Truck Dock	127,031	--	333,837	CalEEMod Default
Parking Structure	208,444	--	587,395	CalEEMod Default
Groundwater Well	3,800	--	783,000	NRRPD 2023
Parking Lot	--	--	597,108	CalEEMod Default
Refrigerated Warehouse	1,000	--	21,895	CalEEMod Default
Unrefrigerated Warehouse (7th St)	62,210	--	287,330	CalEEMod Default

Table 3: Solar Photovoltaic and Cogeneration System Electricity Generation

Electricity Generation	Phase 1	Phase 2	Data Source
Solar PV (kWh/yr)	2,796,203	2,796,203	Reyes Rancho Roof 12/22/23 re Motive Energy
Cogeneration (kWh/yr)	--	21,421,319	Data Request Response from Planning Department, Rancho Cucamonga 10/10/24
Net Generation (kWh/yr)	2,796,203	24,217,522	--

Table 4: Gross and Net Electricity Consumption

Land Use	Gross Consumption	Phase 1 Net Consumption	Phase 2 Net Consumption
	kWh/year		
Unrefrigerated Warehouse (DC & AS/RS)	22,071,156	20,305,614	6,780,047
Manufacturing (PC)	12,884,368	11,853,707	3,957,954

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_PM	PM2.5_PM	PM10_RUN
San Bernar	2024	HHDT	Aggregate	Aggregate	Gasoline	5.565988	200.7101	200.7101	0	111.3643	12.32117	0	1.174224	0.0041	0	0.002176	0.005	0.032722	0.004459
San Bernar	2024	HHDT	Aggregate	Aggregate	Diesel	14231.96	1766161	1766161	0	214453.7	1.81177	62.90607	2.817541	0.026306	0.031793	0	0.008787	0.026544	0.027495
San Bernar	2024	HHDT	Aggregate	Aggregate	Electricity	48.62872	4853.772	0	4853.772	623.973	0	0	0	0	0	0	0.008578	0.014319	0
San Bernar	2024	HHDT	Aggregate	Aggregate	Natural Ga	2469.471	160346	160346	0	14202.53	1.079546	8.574204	0	0.001807	0.009837	0	0.009	0.061806	0.001965
San Bernar	2024	LDA	Aggregate	Aggregate	Gasoline	459317.1	20167734	20167734	0	2135710	0.038779	0	0.241474	0.001182	0	0.001927	0.002	0.002585	0.001286
San Bernar	2024	LDA	Aggregate	Aggregate	Diesel	1047.589	37687.91	37687.91	0	4511.75	0.174904	0	0	0.014568	0	0	0.002	0.002626	0.015226
San Bernar	2024	LDA	Aggregate	Aggregate	Electricity	19287.28	922159.8	0	922159.8	96956.8	0	0	0	0	0	0	0.002	0.001528	0
San Bernar	2024	LDA	Aggregate	Aggregate	Plug-in Hyt	12500.46	641775.8	318306.4	323469.3	51689.4	0.003008	0	0.111175	0.000607	0	0.002025	0.002	0.001352	0.00066
San Bernar	2024	LDT1	Aggregate	Aggregate	Gasoline	40725.36	1412437	1412437	0	175939.2	0.186393	0	0.468956	0.002057	0	0.003245	0.002	0.003104	0.002237
San Bernar	2024	LDT1	Aggregate	Aggregate	Diesel	10.72176	158.8104	158.8104	0	30.7055	1.566244	0	0	0.231222	0	0	0.002	0.003509	0.241677
San Bernar	2024	LDT1	Aggregate	Aggregate	Electricity	58.29951	2744.162	0	2744.162	290.8214	0	0	0	0	0	0	0.002	0.001528	0
San Bernar	2024	LDT1	Aggregate	Aggregate	Plug-in Hyt	51.79076	2655.078	1187.158	1467.92	214.1548	0.002712	0	0.111175	0.000368	0	0.001375	0.002	0.001366	0.0004
San Bernar	2024	LDT2	Aggregate	Aggregate	Gasoline	192654.7	7946862	7946862	0	901952.8	0.072499	0	0.329414	0.001201	0	0.001926	0.002	0.002948	0.001306
San Bernar	2024	LDT2	Aggregate	Aggregate	Diesel	520.8967	23279.78	23279.78	0	2524.296	0.04987	0	0	0.00487	0	0	0.002	0.002859	0.00509
San Bernar	2024	LDT2	Aggregate	Aggregate	Electricity	1199.247	43242.49	0	43242.49	6132.301	0	0	0	0	0	0	0.002	0.001525	0
San Bernar	2024	LDT2	Aggregate	Aggregate	Plug-in Hyt	1594.626	79073.78	36903.17	42170.61	6593.777	0.002831	0	0.111175	0.000454	0	0.001618	0.002	0.00136	0.000493
San Bernar	2024	LHDT1	Aggregate	Aggregate	Gasoline	17179.49	637558.7	637558.7	0	255948.8	0.180314	0.03699	0.639292	0.001092	0	0.000331	0.002	0.0273	0.001188
San Bernar	2024	LHDT1	Aggregate	Aggregate	Diesel	11382.1	435758.4	435758.4	0	143172.5	1.735905	2.063445	0	0.025863	0.026322	0	0.003	0.0273	0.027032
San Bernar	2024	LHDT1	Aggregate	Aggregate	Electricity	52.74031	3922.507	0	3922.507	736.7487	0	0	0	0	0	0	0.002	0.01365	0
San Bernar	2024	LHDT2	Aggregate	Aggregate	Gasoline	2883.702	102543.2	102543.2	0	42962.87	0.152391	0.037357	0.64935	0.000921	0	0.000238	0.002	0.03185	0.001001
San Bernar	2024	LHDT2	Aggregate	Aggregate	Diesel	4825.532	186665.6	186665.6	0	60699.13	1.338297	2.019256	0	0.023887	0.026363	0	0.003	0.03185	0.024967
San Bernar	2024	LHDT2	Aggregate	Aggregate	Electricity	13.65084	961.9375	0	961.9375	180.6958	0	0	0	0	0	0	0.002	0.015925	0
San Bernar	2024	MCV	Aggregate	Aggregate	Gasoline	20751.93	123685.1	123685.1	0	41503.86	0.583536	0	0.138745	0.001745	0	0.00308	0.001	0.0042	0.001865
San Bernar	2024	MDV	Aggregate	Aggregate	Gasoline	147141.1	5830684	5830684	0	672968.1	0.115191	0	0.465886	0.001252	0	0.002072	0.002	0.003043	0.001361
San Bernar	2024	MDV	Aggregate	Aggregate	Diesel	1910.883	77417.94	77417.94	0	8850.718	0.150306	0	0	0.008176	0	0	0.002	0.003058	0.008545
San Bernar	2024	MDV	Aggregate	Aggregate	Electricity	1327.49	47850.31	0	47850.31	6787.417	0	0	0	0	0	0	0.002	0.001525	0
San Bernar	2024	MDV	Aggregate	Aggregate	Plug-in Hyt	1028.69	51780.12	24862.58	26917.54	4253.634	0.002912	0	0.111175	0.000576	0	0.002003	0.002	0.001357	0.000626
San Bernar	2024	MH	Aggregate	Aggregate	Gasoline	3401.971	30215.88	30215.88	0	340.3331	0.365061	0	0.418215	0.001081	0	0.00035	0.003	0.014879	0.001176
San Bernar	2024	MH	Aggregate	Aggregate	Diesel	1336.398	12068.41	12068.41	0	133.6398	3.929004	0	0	0.121655	0	0	0.004	0.014841	0.127155
San Bernar	2024	MHDT	Aggregate	Aggregate	Gasoline	1460.602	78395.71	78395.71	0	29223.73	0.421244	0.08922	0.427592	0.000896	0	0.000472	0.003	0.014879	0.000975
San Bernar	2024	MHDT	Aggregate	Aggregate	Diesel	14946.47	650565.7	650565.7	0	183244.3	0.783545	11.96484	1.667494	0.009797	0.019063	0	0.003	0.014886	0.01024
San Bernar	2024	MHDT	Aggregate	Aggregate	Electricity	46.13646	2344.17	0	2344.17	591.8185	0	0	0	0	0	0	0.003	0.007441	0
San Bernar	2024	MHDT	Aggregate	Aggregate	Natural Ga	195.6757	9502.555	9502.555	0	1810.478	0.101101	6.518436	0	0.000722	0.017098	0	0.003	0.01487	0.000786
San Bernar	2024	OBUS	Aggregate	Aggregate	Gasoline	370.0192	15806.92	15806.92	0	7403.344	0.438163	0.064738	0.394275	0.000816	0	0.000305	0.003	0.015265	0.000887
San Bernar	2024	OBUS	Aggregate	Aggregate	Diesel	210.552	15196.97	15196.97	0	2486.952	1.89702	12.94939	1.636358	0.04244	0.026155	0	0.003	0.021156	0.044359
San Bernar	2024	OBUS	Aggregate	Aggregate	Electricity	0.809762	65.22583	0	65.22583	16.20172	0	0	0	0	0	0	0.003	0.007632	0
San Bernar	2024	OBUS	Aggregate	Aggregate	Natural Ga	32.78529	1993.504	1993.504	0	291.7891	0.131342	1.544962	0	0.000756	0.003719	0	0.003	0.015265	0.000822
San Bernar	2024	SBUS	Aggregate	Aggregate	Gasoline	297.8692	14022.1	14022.1	0	1191.477	0.475232	0.925725	0.670897	0.001044	0	0.000506	0.002	0.016396	0.001135
San Bernar	2024	SBUS	Aggregate	Aggregate	Diesel	373.2941	7747.296	7747.296	0	5405.299	8.01234	31.7219	0.258159	0.045454	0.038022	0	0.003	0.016396	0.047509
San Bernar	2024	SBUS	Aggregate	Aggregate	Electricity	2.2132	56.3202	0	56.3202	27.39327	0	0	0	0	0	0	0.002629	0.008198	0
San Bernar	2024	SBUS	Aggregate	Aggregate	Natural Ga	398.76	10010.49	10010.49	0	5774.045	0.675376	5.173032	0	0.004122	0.013692	0	0.003	0.016396	0.004483
San Bernar	2024	UBUS	Aggregate	Aggregate	Gasoline	54.72012	5253.854	5253.854	0	218.8805	0.04028	0	0.409844	0.001057	0	0.000206	0.002065	0.03228	0.001149
San Bernar	2024	UBUS	Aggregate	Aggregate	Diesel	4.556959	449.8374	449.8374	0	18.22784	0.226477	0	0	0.00295	0	0	0.003985	0.038465	0.003084
San Bernar	2024	UBUS	Aggregate	Aggregate	Electricity	7.328345	1111.359	0	1111.359	29.31338	0	0	0	0	0	0	0.008806	0.019249	0
San Bernar	2024	UBUS	Aggregate	Aggregate	Natural Ga	243.3602	33308.41	33308.41	0	973.4409	0.457242	0	0	0.001766	0	0	0.00797	0.037547	0.001846

PM10_IDLI	PM10_STR	PM10_PM'	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	N2O_RUNE	N2O_IDLE	N2O_STRE	ROG_RUNE	ROG_IDLE	ROG_STRE	ROG_HOTS	ROG_RUNI	ROG_DIUR	TOG_RUNE
0	0.002367	0.02	0.093492	2271.766	0	52.9111	0.364857	0	7.33E-05	0.297464	0	0.024912	2.338084	0	0.000378	0.151722	1.342216	12.19289	3.411727
0.033231	0	0.035148	0.07584	1598.45	12053.09	0	0.000611	0.23737	0	0.251836	1.898969	0	0.013149	5.110504	0	0	0	0	0.014969
0	0	0.034312	0.040912	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.010698	0	0.036	0.17659	1137.405	7643.202	0	1.820157	20.23727	0	0.231868	1.558117	0	0.043135	0.350388	0	0	0	0	1.877118
0	0.002096	0.008	0.007385	281.862	0	69.50117	0.002318	0	0.067976	0.004544	0	0.032777	0.008536	0	0.30004	0.089612	0.22287	1.545389	0.012455
0	0	0.008	0.007504	236.6099	0	0	0.001132	0	0	0.037278	0	0	0.024368	0	0	0	0	0	0.027741
0	0	0.008	0.004366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.002203	0.008	0.003864	136.8241	0	64.78647	0.00043	0	0.040861	0.000569	0	0.021	0.001328	0	0.162354	0.042118	0.037991	0.526917	0.001938
0	0.003529	0.008	0.008869	339.6993	0	90.13277	0.009205	0	0.12816	0.012873	0	0.042592	0.041237	0	0.67999	0.234107	0.696187	4.172755	0.060165
0	0	0.008	0.010025	418.3729	0	0	0.013932	0	0	0.065915	0	0	0.299946	0	0	0	0	0	0.341469
0	0	0.008	0.004366	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.001496	0.008	0.003903	123.572	0	69.10739	0.000382	0	0.040353	0.0005	0	0.020507	0.001197	0	0.162354	0.024564	0.021207	0.310218	0.001747
0	0.002095	0.008	0.008422	345.5449	0	86.7346	0.003104	0	0.080855	0.006191	0	0.036971	0.012113	0	0.370448	0.08647	0.235522	1.619075	0.017675
0	0	0.008	0.008168	306.3523	0	0	0.000591	0	0	0.048266	0	0	0.012729	0	0	0	0	0	0.014491
0	0	0.008	0.004358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.00176	0.008	0.003887	128.9043	0	75.13482	0.0004	0	0.040398	0.000523	0	0.020551	0.00125	0	0.162354	0.026115	0.023651	0.344407	0.001823
0	0.00036	0.008	0.078	619.7527	119.8152	25.6578	0.005625	0.11648	0.033887	0.010159	0.003026	0.051014	0.02808	0.423734	0.165949	0.052408	0.292803	3.344895	0.040974
0.027512	0	0.012	0.078	490.3346	133.1283	0	0.005005	0.005098	0	0.077252	0.020974	0	0.107764	0.10976	0	0	0	0	0.122682
0	0	0.008	0.039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.000259	0.008	0.091	700.469	139.1162	25.49784	0.003267	0.118214	0.033259	0.009557	0.003031	0.051006	0.014922	0.428418	0.161129	0.046547	0.246784	2.984124	0.021774
0.027555	0	0.012	0.091	585.5042	212.8773	0	0.004519	0.005098	0	0.092246	0.033539	0	0.097282	0.10976	0	0	0	0	0.110749
0	0	0.008	0.0455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.003278	0.004	0.012	188.5249	0	48.91473	0.170224	0	0.177309	0.040051	0	0.008199	1.121022	0	1.309754	3.593752	3.785201	5.018326	1.342574
0	0.002253	0.008	0.008695	425.4051	0	108.3415	0.00453	0	0.107939	0.008562	0	0.043108	0.018933	0	0.539628	0.11349	0.334452	2.177642	0.027611
0	0	0.008	0.008737	426.9698	0	0	0.000728	0	0	0.067269	0	0	0.015671	0	0	0	0	0	0.017841
0	0	0.008	0.004358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.002179	0.008	0.003878	132.5384	0	94.21503	0.000413	0	0.040612	0.000544	0	0.020759	0.001286	0	0.162354	0.031352	0.027531	0.400828	0.001876
0	0.00038	0.012	0.04251	1760.606	0	31.22272	0.010868	0	0.037337	0.023325	0	0.045903	0.045824	0	0.149388	11.72137	0.266614	4.91232	0.066866
0	0	0.016	0.042402	992.8954	0	0	0.003281	0	0	0.156431	0	0	0.070636	0	0	0	0	0	0.080414
0	0.000514	0.012	0.04251	1625.023	542.8523	45.93616	0.010875	0.261074	0.046868	0.021351	0.007538	0.032937	0.052881	1.002239	0.25308	0.035478	0.280111	3.290425	0.077164
0.019925	0	0.012	0.042532	1083.915	2189.297	0	0.000666	0.01013	0	0.170771	0.344925	0	0.014338	0.218094	0	0	0	0	0.016323
0	0	0.012	0.02126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.018596	0	0.012	0.042485	799.7218	5236.849	0	0.467479	17.75812	0	0.163029	1.067566	0	0.006679	0.253728	0	0	0	0	0.477096
0	0.000332	0.012	0.043613	1661.097	379.1105	31.16319	0.01066	0.195603	0.034781	0.021095	0.005385	0.030095	0.05236	0.741438	0.183864	0.038246	0.175071	3.448771	0.076403
0.027338	0	0.012	0.060446	1336.44	2658.915	0	0.003402	0.043316	0	0.210557	0.418913	0	0.073253	0.932581	0	0	0	0	0.083393
0	0	0.012	0.021807	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.004045	0	0.012	0.043613	876.8535	1242.321	0	0.532619	4.330082	0	0.178752	0.253255	0	0.00761	0.061868	0	0	0	0	0.543577
0	0.000551	0.008	0.046845	899.3009	2610.968	56.65043	0.012644	2.445644	0.071181	0.026282	0.085599	0.061124	0.062706	10.62975	0.407915	0.127278	0.332664	2.321254	0.091501
0.039741	0	0.012	0.046845	1268.88	2297.276	0	0.006554	0.007664	0	0.199913	0.361937	0	0.1411	0.164999	0	0	0	0	0.160632
0	0	0.010515	0.023423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.014891	0	0.012	0.046845	1660.998	4268.16	0	4.240926	14.04836	0	0.338605	0.870092	0	0.060594	0.200723	0	0	0	0	4.328176
0	0.000224	0.008259	0.092229	663.7655	0	42.9497	0.000942	0	0.044252	0.005235	0	0.060026	0.002655	0	0.157274	0.027974	0.09326	0.455226	0.003874
0	0	0.015939	0.1099	981.3463	0	0	0.002042	0	0	0.154612	0	0	0.043954	0	0	0	0	0	0.050038
0	0	0.035226	0.054998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.03188	0.107277	1841.142	0	0	2.407506	0	0	0.375329	0	0	0.041146	0	0	0	0	0	2.464403

TOG_IDLEX	TOG_STREX	TOG_HOTS	TOG_RUNL	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
0	0.000413	0.151722	1.342216	12.19289	0.038399	121.7442	0	2.765182	0.022459	0	0.000523
5.81792	0	0	0	0	0.214987	0.065278	74.42559	0	0.015136	0.114136	0
0	0	0	0	0	0	0	0	0	0	0	0
20.72338	0	0	0	0	0.699513	9.081419	66.0225	0	0	0	0
0	0.328506	0.089612	0.22287	1.545389	0.034576	0.756104	0	2.934805	0.002786	0	0.000687
0	0	0	0	0	0.0031	0.305693	0	0	0.002242	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0.177757	0.042118	0.037991	0.526917	0.019346	0.222742	0	1.235701	0.001353	0	0.00064
0	0.744503	0.234107	0.696187	4.172755	0.038009	1.989792	0	6.412347	0.003358	0	0.000891
0	0	0	0	0	0.0031	1.911379	0	0	0.003964	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0.177757	0.024564	0.021207	0.310218	0.018779	0.20194	0	1.235701	0.001222	0	0.000683
0	0.405594	0.08647	0.235522	1.619075	0.036576	0.911028	0	3.496511	0.003416	0	0.000857
0	0	0	0	0	0.0031	0.118353	0	0	0.002903	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0.177757	0.026115	0.023651	0.344407	0.019574	0.210396	0	1.235701	0.001274	0	0.000743
0.618312	0.181693	0.052408	0.292803	3.344895	0.044873	1.133706	3.753268	2.982359	0.006127	0.001184	0.000254
0.124954	0	0	0	0	0.164473	0.33761	0.909745	0	0.004646	0.001261	0
0	0	0	0	0	0	0	0	0	0	0	0
0.625147	0.176416	0.046547	0.246784	2.984124	0.044986	0.76692	3.764662	2.910402	0.006925	0.001375	0.000252
0.124954	0	0	0	0	0.175318	0.261655	0.909745	0	0.005548	0.002017	0
0	0	0	0	0	0	0	0	0	0	0	0
0	1.423872	3.593752	3.785201	5.018326	0.008762	13.35365	0	7.713989	0.001864	0	0.000484
0	0.590823	0.11349	0.334452	2.177642	0.035763	1.126387	0	4.021249	0.004206	0	0.001071
0	0	0	0	0	0.0031	0.252234	0	0	0.004046	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0.177757	0.031352	0.027531	0.400828	0.020167	0.216036	0	1.235701	0.00131	0	0.000931
0	0.163561	11.72137	0.266614	4.91232	0.044888	1.337713	0	3.248211	0.017405	0	0.000309
0	0	0	0	0	0.132028	0.316777	0	0	0.009408	0	0
1.462465	0.277091	0.035478	0.280111	3.290425	0.044977	1.373098	14.35134	5.361829	0.016065	0.005367	0.000454
0.248283	0	0	0	0	0.214412	0.06262	7.422298	0	0.010264	0.020731	0
0	0	0	0	0	0	0	0	0	0	0	0
18.12346	0	0	0	0	1.06	2.022824	32.43249	0	0	0	0
1.081904	0.201308	0.038246	0.175071	3.448771	0.044954	1.365329	5.745514	3.742135	0.016422	0.003748	0.000308
1.061673	0	0	0	0	0.20891	0.250936	13.95931	0	0.012655	0.025178	0
0	0	0	0	0	0	0	0	0	0	0	0
4.419166	0	0	0	0	1.06	2.424419	6.947156	0	0	0	0
15.51091	0.446615	0.127278	0.332664	2.321254	0.045	1.263875	82.16944	9.238462	0.008891	0.025812	0.00056
0.187839	0	0	0	0	0.09731	0.336871	3.162417	0	0.012016	0.021754	0
0	0	0	0	0	0	0	0	0	0	0	0
14.33738	0	0	0	0	1.06	14.02486	26.01005	0	0	0	0
0	0.172195	0.027974	0.09326	0.455226	0.045	0.523367	0	6.165433	0.006562	0	0.000425
0	0	0	0	0	0.22	0.041737	0	0	0.009299	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0.97	33.6371	0	0	0	0	0

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Con	NOx_RUNE	NOx_IDLEX	NOx_STRE	NOx_TOTE	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_TO
San Bernar	2024	HHDT	Aggregate	Aggregate	Gasoline	5.565988	65632.2	65632.2	0	36416.12	0	0.891401	0	0.047136	0.938537	0.000297	0	8.74E-05	0.000384
San Bernar	2024	HHDT	Aggregate	Aggregate	Diesel	14231.96	5.51E+08	5.51E+08	0	66909545	0	1100.505	307.9044	207.8081	1616.218	15.97858	0.155617	0	16.1342
San Bernar	2024	HHDT	Aggregate	Aggregate	Electricity	48.62872	1514396	0	1514396	194680.8	2724994	0	0	0	0	0	0	0	0
San Bernar	2024	HHDT	Aggregate	Aggregate	Natural Ga	2469.471	50027967	50027967	0	4431190	0	59.53307	7.282097	0	66.81517	0.099661	0.008354	0	0.108015
San Bernar	2024	LDA	Aggregate	Aggregate	Gasoline	459317.1	7E+09	7E+09	0	7.41E+08	0	299.1504	0	197.2636	496.414	9.119045	0	1.574457	10.6935
San Bernar	2024	LDA	Aggregate	Aggregate	Diesel	1047.589	13077704	13077704	0	1565577	0	2.521363	0	0	2.521363	0.210004	0	0	0.210004
San Bernar	2024	LDA	Aggregate	Aggregate	Electricity	19287.28	3.2E+08	0	3.2E+08	33644011	1.24E+08	0	0	0	0	0	0	0	0
San Bernar	2024	LDA	Aggregate	Aggregate	Plug-in Hy	12500.46	2.23E+08	1.1E+08	1.12E+08	17936220	33900992	0.73851	0	2.198065	2.936574	0.148893	0	0.040042	0.188935
San Bernar	2024	LDT1	Aggregate	Aggregate	Gasoline	40725.36	4.9E+08	4.9E+08	0	61050900	0	100.7008	0	31.55938	132.2602	1.111417	0	0.218372	1.329789
San Bernar	2024	LDT1	Aggregate	Aggregate	Diesel	10.72176	55107.22	55107.22	0	10654.81	0	0.095142	0	0	0.095142	0.014046	0	0	0.014046
San Bernar	2024	LDT1	Aggregate	Aggregate	Electricity	58.29951	952224.2	0	952224.2	100915	367637.1	0	0	0	0	0	0	0	0
San Bernar	2024	LDT1	Aggregate	Aggregate	Plug-in Hy	51.79076	921312	411943.9	509368.1	74311.71	153844.3	0.002754	0	0.009107	0.011861	0.000374	0	0.000113	0.000486
San Bernar	2024	LDT2	Aggregate	Aggregate	Gasoline	192654.7	2.76E+09	2.76E+09	0	3.13E+08	0	220.3756	0	113.6475	334.0231	3.64959	0	0.664571	4.314161
San Bernar	2024	LDT2	Aggregate	Aggregate	Diesel	520.8967	8078085	8078085	0	875930.8	0	0.444071	0	0	0.444071	0.043362	0	0	0.043362
San Bernar	2024	LDT2	Aggregate	Aggregate	Electricity	1199.247	15005146	0	15005146	2127908	5793225	0	0	0	0	0	0	0	0
San Bernar	2024	LDT2	Aggregate	Aggregate	Plug-in Hy	1594.626	27438602	12805401	14633201	2288040	4419663	0.08562	0	0.280397	0.366017	0.013723	0	0.00408	0.017803
San Bernar	2024	LHDT1	Aggregate	Aggregate	Gasoline	17179.49	2.08E+08	2.08E+08	0	83695263	0	41.43836	0.229057	58.97993	100.6473	0.251041	0	0.030508	0.281549
San Bernar	2024	LHDT1	Aggregate	Aggregate	Diesel	11382.1	1.42E+08	1.42E+08	0	46817398	0	272.6614	8.465781	0	281.1272	4.062291	0.107991	0	4.170283
San Bernar	2024	LHDT1	Aggregate	Aggregate	Electricity	52.74031	1282660	0	1282660	240916.8	718973.2	0	0	0	0	0	0	0	0
San Bernar	2024	LHDT2	Aggregate	Aggregate	Gasoline	2883.702	33531637	33531637	0	14048858	0	5.632717	0.03883	10.05596	15.72751	0.034029	0	0.003693	0.037722
San Bernar	2024	LHDT2	Aggregate	Aggregate	Diesel	4825.532	61039666	61039666	0	19848614	0	90.04689	3.512275	0	93.55916	1.607242	0.045855	0	1.653097
San Bernar	2024	LHDT2	Aggregate	Aggregate	Electricity	13.65084	314553.6	0	314553.6	59087.53	176464.3	0	0	0	0	0	0	0	0
San Bernar	2024	MCY	Aggregate	Aggregate	Gasoline	20751.93	42918714	42918714	0	14401839	0	27.60697	0	2.20262	29.80959	0.08256	0	0.048899	0.131458
San Bernar	2024	MDV	Aggregate	Aggregate	Gasoline	147141.1	2.02E+09	2.02E+09	0	2.34E+08	0	256.9034	0	119.9245	376.8279	2.791361	0	0.533298	3.324659
San Bernar	2024	MDV	Aggregate	Aggregate	Diesel	1910.883	26864024	26864024	0	3071199	0	4.450935	0	0	4.450935	0.242104	0	0	0.242104
San Bernar	2024	MDV	Aggregate	Aggregate	Electricity	1327.49	16604057	0	16604057	2355234	6410536	0	0	0	0	0	0	0	0
San Bernar	2024	MDV	Aggregate	Aggregate	Plug-in Hy	1028.69	17967703	8627317	9340386	1476011	2821075	0.057684	0	0.180884	0.238568	0.0114	0	0.003259	0.014659
San Bernar	2024	MH	Aggregate	Aggregate	Gasoline	3401.971	9880592	9880592	0	111288.9	0	3.976062	0	0.051305	4.027367	0.011777	0	4.29E-05	0.01182
San Bernar	2024	MH	Aggregate	Aggregate	Diesel	1336.398	3946369	3946369	0	43700.2	0	17.09166	0	0	17.09166	0.529214	0	0	0.529214
San Bernar	2024	MHDT	Aggregate	Aggregate	Gasoline	1460.602	25635397	25635397	0	9556159	0	11.90358	0.046973	4.504197	16.45475	0.025321	0	0.004975	0.030296
San Bernar	2024	MHDT	Aggregate	Aggregate	Diesel	14946.47	2.03E+08	2.03E+08	0	57172237	0	175.313	61.50415	105.0881	341.9053	2.192106	0.09799	0	2.290096
San Bernar	2024	MHDT	Aggregate	Aggregate	Electricity	46.13646	737631.4	0	737631.4	185958.6	772374.8	0	0	0	0	0	0	0	0
San Bernar	2024	MHDT	Aggregate	Aggregate	Natural Ga	195.6757	2964797	2964797	0	564869.1	0	0.330411	0.438671	0	0.769082	0.002361	0.001151	0	0.003512
San Bernar	2024	OBUS	Aggregate	Aggregate	Gasoline	370.0192	5168864	5168864	0	2420894	0	2.496521	0.008634	1.052153	3.557308	0.004647	0	0.000814	0.005461
San Bernar	2024	OBUS	Aggregate	Aggregate	Diesel	210.552	4437515	4437515	0	726190.1	0	9.279316	0.877598	1.309884	11.4668	0.207597	0.001773	0	0.20937
San Bernar	2024	OBUS	Aggregate	Aggregate	Electricity	0.809762	21328.85	0	21328.85	5297.961	22399.05	0	0	0	0	0	0	0	0
San Bernar	2024	OBUS	Aggregate	Aggregate	Natural Ga	32.78529	582103.1	582103.1	0	85202.41	0	0.084277	0.016304	0	0.10058	0.000485	3.92E-05	0	0.000524
San Bernar	2024	SBUS	Aggregate	Aggregate	Gasoline	297.8692	4585227	4585227	0	389612.9	0	2.401988	0.099394	0.288133	2.789515	0.005274	0	0.000217	0.005492
San Bernar	2024	SBUS	Aggregate	Aggregate	Diesel	373.2941	2533366	2533366	0	1767533	0	22.37491	4.268373	0.502989	27.14628	0.126933	0.005116	0	0.132049
San Bernar	2024	SBUS	Aggregate	Aggregate	Electricity	2.2132	18416.71	0	18416.71	8957.6	21295.26	0	0	0	0	0	0	0	0
San Bernar	2024	SBUS	Aggregate	Aggregate	Natural Ga	398.76	3273431	3273431	0	1888113	0	2.436986	0.743547	0	3.180534	0.014873	0.001968	0	0.016841
San Bernar	2024	UBUS	Aggregate	Aggregate	Gasoline	54.72012	1718010	1718010	0	71573.92	0	0.076281	0	0.032335	0.108616	0.002001	0	1.63E-05	0.002017
San Bernar	2024	UBUS	Aggregate	Aggregate	Diesel	4.556959	147096.8	147096.8	0	5960.502	0	0.036723	0	0	0.036723	0.000478	0	0	0.000478
San Bernar	2024	UBUS	Aggregate	Aggregate	Electricity	7.328345	363414.4	0	363414.4	9585.475	711016.4	0	0	0	0	0	0	0	0
San Bernar	2024	UBUS	Aggregate	Aggregate	Natural Ga	243.3602	10891849	10891849	0	318315.2	0	5.489735	0	0	5.489735	0.021206	0	0	0.021206

PM2.5_PM	PM2.5_PM	PM2.5_TO	PM10_RU	PM10_IDL	PM10_STR	PM10_TOT	PM10_PM	PM10_PMI	PM10_TOT	CO2_RUNE	CO2_IDLEX	CO2_STRE	CO2_TOTE	CH4_RUNE	CH4_IDLEX	CH4_STRE	CH4_TOTE	N2O_RUNE	N2O_IDLE
0.000362	0.002367	0.003113	0.000323	0	9.5E-05	0.000418	0.001447	0.006764	0.008628	164.3557	0	2.123951	166.4796	0.026396	0	2.94E-06	0.026399	0.021521	0
5.337473	16.12336	37.59503	16.70106	0.162653	0	16.86372	21.34989	46.06674	84.28035	970930.7	58995.88	0	1029927	0.370982	1.161846	0	1.532828	152.9705	9.294826
0.014319	0.023903	0.038223	0	0	0	0	0.057278	0.068296	0.125573	0	0	0	0	0	0	0	0	0	0
0.496318	3.408404	4.012737	0.10839	0.009086	0	0.117476	1.98527	9.738298	11.84104	62723.79	6491.394	0	69215.18	100.3751	17.18757	0	117.5626	12.78665	1.323313
15.4284	19.93829	46.06019	9.917793	0	1.712365	11.63016	61.71359	56.96655	130.3103	2174339	0	56776.41	2231115	17.87987	0	55.53018	73.41005	35.05001	0
0.028831	0.037859	0.276695	0.2195	0	0	0.2195	0.115326	0.108169	0.442994	3410.896	0	0	3410.896	0.016316	0	0	0.016316	0.537388	0
0.705456	0.538946	1.244402	0	0	0	0	2.821824	1.539846	4.36167	0	0	0	0	0	0	0	0	0	0
0.490961	0.332009	1.011905	0.161935	0	0.04355	0.205484	1.963844	0.948597	3.117926	33587.65	0	1280.912	34868.56	0.105448	0	0.807873	0.913321	0.139618	0
1.08052	1.676954	4.087262	1.208739	0	0.237493	1.446232	4.32208	4.791296	10.55961	183525.8	0	6065.672	189591.5	4.97334	0	8.624823	13.59816	6.954863	0
0.000121	0.000213	0.01438	0.014681	0	0	0.014681	0.000486	0.000609	0.015776	25.41419	0	0	25.41419	0.000846	0	0	0.000846	0.004004	0
0.002099	0.001604	0.003703	0	0	0	0	0.008397	0.004583	0.01298	0	0	0	0	0	0	0	0	0	0
0.002031	0.001387	0.003905	0.000406	0	0.000123	0.000529	0.008125	0.003964	0.012617	125.4963	0	5.660906	131.1572	0.000388	0	0.003305	0.003694	0.000508	0
6.079382	8.960381	19.35392	3.969246	0	0.722777	4.692023	24.31753	25.60109	54.61064	1050349	0	29923.32	1080273	9.433899	0	27.89501	37.32891	18.81791	0
0.017809	0.025457	0.086629	0.045323	0	0	0.045323	0.071237	0.072735	0.189295	2727.933	0	0	2727.933	0.005265	0	0	0.005265	0.429787	0
0.033081	0.02523	0.058311	0	0	0	0	0.132323	0.072087	0.204409	0	0	0	0	0	0	0	0	0	0
0.060492	0.041144	0.119439	0.014925	0	0.004438	0.019363	0.241967	0.117553	0.378883	3898.822	0	189.4999	4088.322	0.012083	0	0.10189	0.113973	0.015832	0
0.459623	6.27386	7.015033	0.27303	0	0.033181	0.306211	1.838494	17.92531	20.07002	142426.4	741.9489	2367.143	145535.5	1.292743	0.721298	3.126385	5.140425	2.334613	0.018739
0.471215	4.288056	8.929554	4.24597	0.112874	0	4.358844	1.88486	12.25159	18.49529	77017.64	546.191	0	77563.83	0.786213	0.020916	0	0.807129	12.13416	0.086053
0.002828	0.0193	0.022127	0	0	0	0	0.011311	0.055142	0.066453	0	0	0	0	0	0	0	0	0	0
0.073925	1.177249	1.288896	0.03701	0	0.004016	0.041026	0.295698	3.36357	3.700294	25890.94	144.6039	394.8649	26430.41	0.120774	0.122877	0.515062	0.758712	0.353233	0.003151
0.201854	2.143018	3.997969	1.679914	0.047928	0	1.727842	0.807417	6.122909	8.658168	39395.47	370.2768	0	39765.75	0.304029	0.008868	0	0.312897	6.206773	0.058337
0.000693	0.005522	0.006215	0	0	0	0	0.002774	0.015776	0.01855	0	0	0	0	0	0	0	0	0	0
0.04731	0.198701	0.377469	0.088252	0	0.052039	0.140292	0.189239	0.567717	0.897248	8919.071	0	776.5363	9695.607	8.053281	0	2.814833	10.86811	1.894786	0
4.460497	6.787179	14.57234	3.035761	0	0.579985	3.615746	17.84199	19.39194	40.84967	948758.7	0	27888.36	976647.1	10.1034	0	27.78478	37.88818	19.09593	0
0.059225	0.090552	0.391881	0.253051	0	0	0.253051	0.2369	0.258719	0.74867	12643.65	0	0	12643.65	0.021555	0	0	0.021555	1.992012	0
0.036606	0.027915	0.064521	0	0	0	0	0.146423	0.079757	0.22618	0	0	0	0	0	0	0	0	0	0
0.039612	0.026882	0.081153	0.012399	0	0.003545	0.015943	0.158448	0.076805	0.251196	2625.055	0	153.29	2778.345	0.008184	0	0.066077	0.074261	0.010773	0
0.032674	0.162049	0.206543	0.012808	0	4.66E-05	0.012855	0.130698	0.462997	0.60655	19175.61	0	3.830248	19179.44	0.118366	0	0.00458	0.122946	0.254045	0
0.017401	0.064559	0.611173	0.553142	0	0	0.553142	0.069602	0.184455	0.807199	4319.221	0	0	4319.221	0.014272	0	0	0.014272	0.680495	0
0.084775	0.42044	0.53551	0.027539	0	0.005411	0.03295	0.339098	1.201256	1.573304	45920.19	285.8021	483.885	46689.88	0.307312	0.137451	0.493698	0.938461	0.603331	0.003969
0.67123	3.330716	6.292042	2.291223	0.102421	0	2.393644	2.684919	9.516333	14.5949	242518.6	11253.88	0	253772.4	0.149009	0.052072	0	0.201081	38.2089	1.773053
0.002439	0.00605	0.00849	0	0	0	0	0.009757	0.017287	0.027044	0	0	0	0	0	0	0	0	0	0
0.009804	0.048597	0.061913	0.002568	0.001251	0	0.003819	0.039218	0.138847	0.181884	2613.593	352.4242	0	2966.018	1.52778	1.195068	0	2.722848	0.532798	0.071844
0.017093	0.086973	0.109527	0.005054	0	0.000886	0.00594	0.068372	0.248494	0.322806	9464.426	50.56406	83.1614	9598.151	0.060737	0.026089	0.092815	0.17964	0.120193	0.000718
0.014675	0.103485	0.32753	0.216984	0.001853	0	0.218837	0.058698	0.295672	0.573207	6537.223	180.1983	0	6717.421	0.016643	0.002936	0	0.019579	1.029942	0.02839
7.05E-05	0.000179	0.00025	0	0	0	0	0.000282	0.000513	0.000795	0	0	0	0	0	0	0	0	0	0
0.001925	0.009795	0.012244	0.000528	4.27E-05	0	0.00057	0.0077	0.027985	0.036255	562.6407	13.10991	0	575.7506	0.34176	0.045694	0	0.387454	0.114698	0.002673
0.010109	0.08287	0.09847	0.005736	0	0.000236	0.005973	0.040435	0.236771	0.283179	4545.378	280.3361	24.32992	4850.044	0.063907	0.262585	0.03057	0.357063	0.132838	0.009191
0.008378	0.045786	0.186213	0.132672	0.005347	0	0.13802	0.033511	0.130817	0.302348	3543.42	309.1123	0	3852.532	0.018302	0.001031	0	0.019333	0.558267	0.048701
5.34E-05	0.000166	0.00022	0	0	0	0	0.000213	0.000475	0.000689	0	0	0	0	0	0	0	0	0	0
0.010825	0.059161	0.086827	0.016176	0.00214	0	0.018316	0.0433	0.169033	0.230649	5993.446	613.4854	0	6606.932	15.3027	2.019246	0	17.32195	1.221803	0.125063
0.00391	0.061132	0.067059	0.002176	0	1.77E-05	0.002194	0.01564	0.174662	0.192496	1257.027	0	3.38859	1260.415	0.001784	0	0.003491	0.005275	0.009915	0
0.000646	0.006237	0.007361	0.0005	0	0	0.0005	0.002585	0.01782	0.020904	159.1218	0	0	159.1218	0.000331	0	0	0.000331	0.02507	0
0.003528	0.007711	0.011239	0	0	0	0	0.014111	0.022032	0.036143	0	0	0	0	0	0	0	0	0	0
0.095691	0.450795	0.567692	0.022165	0	0	0.022165	0.382763	1.287986	1.692914	22105.13	0	0	22105.13	28.90501	0	0	28.90501	4.506274	0

N2O_STRE	N2O_TOTE	ROG_RUNI	ROG_IDLE	ROG_STRE	ROG_TOTE	ROG_DIUR	ROG_HOTS	ROG_RUNI	ROG_TOTA	TOG_RUNE	TOG_IDLE	TOG_STRE	TOG_TOTE	TOG_DIUR	TOG_HOTS	TOG_RUNI	TOG_TOTA	CO_RUNEX	CO_IDLEX
0.001	0.022521	0.169154	0	1.52E-05	0.169169	0.024462	0.00609	0.053879	0.253601	0.246829	0	1.66E-05	0.246845	0.024462	0.00609	0.053879	0.331277	8.807836	0
0	162.2654	7.987134	25.01423	0	33.00136	0	0	0	33.00136	9.092744	28.47679	0	37.56954	0	0	0	37.56954	39.65122	364.2886
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	14.10997	2.378714	0.297585	0	2.676299	0	0	0	2.676299	103.5163	17.60043	0	121.1167	0	0	0	121.1167	500.8074	56.0731
26.77632	61.82633	65.84704	0	245.1067	310.9538	271.5089	73.20481	182.0654	837.733	96.08385	0	268.361	364.4449	271.5089	73.20481	182.0654	891.2241	5832.734	0
0	0.537388	0.351279	0	0	0.351279	0	0	0	0.351279	0.399908	0	0	0.399908	0	0	0	0.399908	4.406783	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.415206	0.554824	0.325976	0	3.209951	3.535927	2.519429	0.832723	0.751136	7.639215	0.475663	0	3.514493	3.990156	2.519429	0.832723	0.751136	8.093443	54.67877	0
2.86634	9.821203	22.27842	0	45.76136	68.03979	65.00121	15.75473	46.85137	195.6471	32.50489	0	50.10288	82.60777	65.00121	15.75473	46.85137	210.2151	1075.004	0
0	0.004004	0.01822	0	0	0.01822	0	0	0	0.01822	0.020743	0	0	0.020743	0	0	0	0.020743	0.116107	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.00168	0.002188	0.001216	0	0.013299	0.014515	0.006145	0.002012	0.001737	0.02441	0.001774	0	0.014561	0.016335	0.006145	0.002012	0.001737	0.02623	0.205085	0
12.75485	31.57277	36.82045	0	127.8042	164.6247	119.3109	29.8322	81.25467	395.0225	53.72553	0	139.9295	193.655	119.3109	29.8322	81.25467	424.0528	2769.242	0
0	0.429787	0.113349	0	0	0.113349	0	0	0	0.113349	0.12904	0	0	0.12904	0	0	0	0.12904	1.053881	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.051832	0.067664	0.037792	0	0.409479	0.447271	0.21007	0.065865	0.059651	0.782857	0.055147	0	0.448328	0.503474	0.21007	0.065865	0.059651	0.83906	6.363614	0
4.706435	7.059787	6.453052	2.623951	15.31016	24.38716	20.71308	4.835095	27.01348	76.94882	9.416278	3.828863	16.7627	30.00784	20.71308	4.835095	27.01348	82.5695	260.5389	23.24191
0	12.22021	16.9267	0.450316	0	17.37701	0	0	0	17.37701	19.26992	0.512655	0	19.78257	0	0	0	19.78257	53.0289	3.732449
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.789887	1.146272	0.551551	0.445318	2.495282	3.49215	3.101839	0.720843	3.821745	11.13658	0.804821	0.649807	2.732019	4.186648	3.101839	0.720843	3.821745	11.83107	28.34711	3.913167
0	6.26511	6.545576	0.190915	0	6.736491	0	0	0	6.736491	7.451703	0.217344	0	7.669047	0	0	0	7.669047	17.6054	1.582402
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.130168	2.024954	53.03532	0	20.79274	73.82805	39.83373	57.05191	60.09122	230.8049	63.51685	0	22.60441	86.12126	39.83373	57.05191	60.09122	243.0981	631.7582	0
11.09654	30.19246	42.22544	0	138.9064	181.1318	122.5615	29.21362	86.09177	418.9987	61.57929	0	152.0846	213.6639	122.5615	29.21362	86.09177	451.5308	2512.121	0
0	1.992012	0.464064	0	0	0.464064	0	0	0	0.464064	0.528306	0	0	0.528306	0	0	0	0.528306	7.46929	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.033775	0.044548	0.025462	0	0.264154	0.289616	0.157716	0.05101	0.044794	0.543136	0.037154	0	0.289215	0.326369	0.157716	0.05101	0.044794	0.579889	4.278807	0
0.005631	0.259676	0.499091	0	0.018326	0.517417	6.02378	1.437919	0.032707	8.011823	0.728272	0	0.020065	0.748337	6.02378	1.437919	0.032707	8.242743	14.56968	0
0	0.680495	0.307276	0	0	0.307276	0	0	0	0.307276	0.349813	0	0	0.349813	0	0	0	0.349813	1.378021	0
0.346957	0.954257	1.494315	0.527661	2.665909	4.687886	1.732351	0.373716	2.950649	9.744602	2.180502	0.769962	2.918835	5.869299	1.732351	0.373716	2.950649	10.92602	38.80125	7.555727
0	39.98195	3.208133	1.121091	0	4.329223	0	0	0	4.329223	3.652215	1.276276	0	4.928491	0	0	0	4.928491	14.01081	38.15363
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.604642	0.021829	0.017075	0	0.038904	0	0	0	0.038904	1.559211	1.219655	0	2.778866	0	0	0	2.778866	6.610848	2.182609
0.080312	0.201223	0.298329	0.09889	0.490656	0.887874	0.459982	0.102062	0.467191	1.917108	0.435321	0.1443	0.537206	1.116827	0.459982	0.102062	0.467191	2.146061	7.779226	0.766311
0	1.058332	0.358319	0.063202	0	0.421522	0	0	0	0.421522	0.407919	0.071951	0	0.47987	0	0	0	0.47987	1.227459	0.946042
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.117371	0.004883	0.000653	0	0.005536	0	0	0	0.005536	0.348791	0.046634	0	0.395425	0	0	0	0.395425	1.555565	0.073312
0.026251	0.16828	0.316939	1.141302	0.175189	1.63343	0.24923	0.054663	0.142871	2.080194	0.462477	1.665386	0.19181	2.319672	0.24923	0.054663	0.142871	2.766436	6.388062	8.822422
0	0.606968	0.394031	0.022202	0	0.416232	0	0	0	0.416232	0.448574	0.025275	0	0.473849	0	0	0	0.473849	0.940732	0.425522
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1.346866	0.218645	0.028851	0	0.247496	0	0	0	0.247496	15.61753	2.060788	0	17.67832	0	0	0	17.67832	50.60646	3.738563
0.004736	0.01465	0.005028	0	0.012408	0.017436	0.008979	0.002207	0.007358	0.03598	0.007336	0	0.013586	0.020922	0.008979	0.002207	0.007358	0.039466	0.991143	0
0	0.02507	0.007127	0	0	0.007127	0	0	0	0.007127	0.008113	0	0	0.008113	0	0	0	0.008113	0.006767	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	4.506274	0.494007	0	0	0.494007	0	0	0	0.494007	29.58813	0	0	29.58813	0	0	0	29.58813	403.8539	0

CO_STREX	CO_TOTEX	SOx_RUNE	SOx_IDLEX	SOx_STREX	SOx_TOTE	NH3_RUNE	Fuel Consumption
0.111	8.918836	0.001625	0	2.1E-05	0.001646	0.002778	17.55507
0	403.9399	9.194133	0.558656	0	9.752789	130.5873	92002.93
0	0	0	0	0	0	0	0
0	556.8805	0	0	0	0	38.57561	8000.219
2397.481	8230.215	21.49556	0	0.561293	22.05685	266.7237	235268.3
0	4.406783	0.03232	0	0	0.03232	0.044689	304.694
0	0	0	0	0	0	0	0
24.43141	79.11019	0.332048	0	0.012663	0.344711	4.749089	3676.847
431.5322	1506.537	1.81434	0	0.059965	1.874305	20.53448	19992.19
0	0.116107	0.000241	0	0	0.000241	0.000188	2.270239
0	0	0	0	0	0	0	0
0.101222	0.306307	0.001241	0	5.6E-05	0.001297	0.019072	13.83037
1206.292	3975.534	10.38377	0	0.295823	10.6796	111.1806	113913.4
0	1.053881	0.025849	0	0	0.025849	0.027604	243.6852
0	0	0	0	0	0	0	0
3.116602	9.480216	0.038544	0	0.001873	0.040417	0.592046	431.1085
275.1471	558.9278	1.40803	0.007335	0.023402	1.438766	10.31225	15346.53
0	56.76135	0.729781	0.005175	0	0.734957	25.83403	6928.746
0	0	0	0	0	0	0	0
45.07109	77.33137	0.255958	0.00143	0.003904	0.261292	1.662775	2787.054
0	19.1878	0.373292	0.003509	0	0.376801	11.7962	3552.259
0	0	0	0	0	0	0	0
122.4619	754.2201	0.088174	0	0.007677	0.095851	0.414544	1022.39
1035.116	3547.238	9.379446	0	0.275705	9.655151	79.76031	102986.2
0	7.46929	0.119805	0	0	0.119805	0.091799	1129.452
0	0	0	0	0	0	0	0
2.010515	6.289322	0.025951	0	0.001515	0.027467	0.399419	292.973
0.398474	14.96815	0.18957	0	3.79E-05	0.189608	0.488896	2022.448
0	1.378021	0.040927	0	0	0.040927	0.574337	385.8343
56.48075	102.8377	0.453968	0.002825	0.004784	0.461577	1.270958	4923.389
0	52.16444	2.296506	0.106567	0	2.403073	47.97325	22669.39
0	0	0	0	0	0	0	0
0	8.793458	0	0	0	0	3.464216	342.8264
9.986178	18.53171	0.093565	0.0005	0.000822	0.094887	0.256134	1012.113
0	2.1735	0.061904	0.001706	0	0.06361	1.021887	600.0646
0	0	0	0	0	0	0	0
0	1.628961	0	0	0	0	0.680158	66.54798
3.967685	19.17817	0.044936	0.002771	0.000241	0.047948	0.227446	511.4311
0	1.366254	0.033554	0.002927	0	0.036481	0.271743	344.1451
0	0	0	0	0	0	0	0
0	54.34502	0	0	0	0	3.82484	763.6605
0.486432	1.477576	0.012427	0	3.35E-05	0.01246	0.08522	132.9092
0	0.006767	0.001508	0	0	0.001508	0.035672	14.21429
0	0	0	0	0	0	0	0
0	403.8539	0	0	0	0	11.64602	2555.015

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Cor	NOx_RUNE	NOx_IDLEX	NOx_STRE	NOx_TOTE	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_TO
San Bernar	2026	HHDT	Aggregate	Aggregate	Gasoline	2.628638	53073.46	53073.46	0	17198.17	0	0.366753	0	0.002955	0.369708	0.000115	0	2.77E-05	0.000142
San Bernar	2026	HHDT	Aggregate	Aggregate	Diesel	15084.77	5.71E+08	5.71E+08	0	71238567	0	1056.036	312.0914	224.8824	1593.01	16.33606	0.150392	0	16.48645
San Bernar	2026	HHDT	Aggregate	Aggregate	Electricity	191.0683	6231840	0	6231840	747022	11221057	0	0	0	0	0	0	0	0
San Bernar	2026	HHDT	Aggregate	Aggregate	Natural Ga	2643.96	52809055	52809055	0	4774291	0	52.0379	7.242379	0	59.28028	0.092426	0.009784	0	0.10221
San Bernar	2026	LDA	Aggregate	Aggregate	Gasoline	456254.8	6.9E+09	6.9E+09	0	7.35E+08	0	250.7217	0	180.533	431.2547	8.444828	0	1.480923	9.925751
San Bernar	2026	LDA	Aggregate	Aggregate	Diesel	917.7888	11101933	11101933	0	1361520	0	1.679552	0	0	1.679552	0.148047	0	0	0.148047
San Bernar	2026	LDA	Aggregate	Aggregate	Electricity	26082.83	4.34E+08	0	4.34E+08	45114942	1.68E+08	0	0	0	0	0	0	0	0
San Bernar	2026	LDA	Aggregate	Aggregate	Plug-in Hyt	14570.87	2.52E+08	1.2E+08	1.33E+08	20906944	40105259	0.800753	0	2.562124	3.362877	0.147512	0	0.042788	0.1903
San Bernar	2026	LDT1	Aggregate	Aggregate	Gasoline	39064	4.72E+08	4.72E+08	0	58664390	0	77.79755	0	26.78218	104.5797	0.931833	0	0.185641	1.117474
San Bernar	2026	LDT1	Aggregate	Aggregate	Diesel	7.51703	37288.12	37288.12	0	7268.477	0	0.061138	0	0	0.061138	0.009081	0	0	0.009081
San Bernar	2026	LDT1	Aggregate	Aggregate	Electricity	110.0967	1882908	0	1882908	191772.5	726957.7	0	0	0	0	0	0	0	0
San Bernar	2026	LDT1	Aggregate	Aggregate	Plug-in Hyt	100.2351	1739924	742109.4	997814.2	143821.8	301369.6	0.004967	0	0.017625	0.022592	0.000641	0	0.000208	0.000848
San Bernar	2026	LDT2	Aggregate	Aggregate	Gasoline	202613	2.9E+09	2.9E+09	0	3.29E+08	0	185.1786	0	104.8932	290.0718	3.565411	0	0.658237	4.223648
San Bernar	2026	LDT2	Aggregate	Aggregate	Diesel	596.9954	9128966	9128966	0	1000600	0	0.39679	0	0	0.39679	0.042604	0	0	0.042604
San Bernar	2026	LDT2	Aggregate	Aggregate	Electricity	2064.916	25042746	0	25042746	3630273	9668567	0	0	0	0	0	0	0	0
San Bernar	2026	LDT2	Aggregate	Aggregate	Plug-in Hyt	2256.65	37623687	16787214	20836473	3237943	6293236	0.112353	0	0.396806	0.509159	0.01667	0	0.005345	0.022014
San Bernar	2026	LHDT1	Aggregate	Aggregate	Gasoline	16791.83	2.06E+08	2.06E+08	0	81806674	0	32.07439	0.211934	54.2046	86.49093	0.242285	0	0.02541	0.267694
San Bernar	2026	LHDT1	Aggregate	Aggregate	Diesel	11393.65	1.41E+08	1.41E+08	0	46864923	0	219.9095	7.853876	0	227.7634	3.558719	0.107799	0	3.666517
San Bernar	2026	LHDT1	Aggregate	Aggregate	Electricity	282.0946	6070995	0	6070995	1291039	3403413	0	0	0	0	0	0	0	0
San Bernar	2026	LHDT2	Aggregate	Aggregate	Gasoline	2763.224	31789316	31789316	0	13461911	0	4.390078	0.035509	9.217612	13.6432	0.03195	0	0.003067	0.035017
San Bernar	2026	LHDT2	Aggregate	Aggregate	Diesel	4937.577	61431306	61431306	0	20309483	0	75.46821	3.322126	0	78.79034	1.465089	0.047066	0	1.512155
San Bernar	2026	LHDT2	Aggregate	Aggregate	Electricity	71.81391	1471681	0	1471681	311512.2	825692.9	0	0	0	0	0	0	0	0
San Bernar	2026	MCY	Aggregate	Aggregate	Gasoline	20884.25	42672552	42672552	0	14493670	0	26.16312	0	2.028302	28.19143	0.083942	0	0.049243	0.133186
San Bernar	2026	MDV	Aggregate	Aggregate	Gasoline	147189	2.02E+09	2.02E+09	0	2.34E+08	0	199.3935	0	101.6337	301.0272	2.576265	0	0.495025	3.07129
San Bernar	2026	MDV	Aggregate	Aggregate	Diesel	1900.727	26099669	26099669	0	3031121	0	3.429422	0	0	3.429422	0.199539	0	0	0.199539
San Bernar	2026	MDV	Aggregate	Aggregate	Electricity	2262.575	27390239	0	27390239	3975535	10574893	0	0	0	0	0	0	0	0
San Bernar	2026	MDV	Aggregate	Aggregate	Plug-in Hyt	1469.974	25096144	11363308	13732836	2109185	4147726	0.076052	0	0.258478	0.33453	0.01306	0	0.004049	0.017109
San Bernar	2026	MH	Aggregate	Aggregate	Gasoline	3064.469	8841690	8841690	0	100248.2	0	3.037945	0	0.048557	3.086502	0.00991	0	3.62E-05	0.009946
San Bernar	2026	MH	Aggregate	Aggregate	Diesel	1320.026	3818367	3818367	0	43164.86	0	15.65006	0	0	15.65006	0.474611	0	0	0.474611
San Bernar	2026	MHDT	Aggregate	Aggregate	Gasoline	1396.239	24637228	24637228	0	9135056	0	8.520176	0.043034	4.052701	12.61591	0.024417	0	0.004533	0.02895
San Bernar	2026	MHDT	Aggregate	Aggregate	Diesel	15710.21	2.08E+08	2.08E+08	0	60182547	0	150.5985	59.05976	109.8411	319.4994	1.850667	0.070337	0	1.921005
San Bernar	2026	MHDT	Aggregate	Aggregate	Electricity	245.8766	3986030	0	3986030	982216.1	4173437	0	0	0	0	0	0	0	0
San Bernar	2026	MHDT	Aggregate	Aggregate	Natural Ga	220.209	3194387	3194387	0	633732	0	0.326525	0.491879	0	0.818404	0.002726	0.001363	0	0.004089
San Bernar	2026	OBUS	Aggregate	Aggregate	Gasoline	348.5151	4690909	4690909	0	2280200	0	1.990146	0.007858	0.972738	2.970741	0.004449	0	0.000774	0.005223
San Bernar	2026	OBUS	Aggregate	Aggregate	Diesel	220.037	4452651	4452651	0	767471.5	0	8.303703	0.866854	1.375016	10.54557	0.167869	0.001289	0	0.169158
San Bernar	2026	OBUS	Aggregate	Aggregate	Electricity	3.340972	84707.71	0	84707.71	21858.7	88958.04	0	0	0	0	0	0	0	0
San Bernar	2026	OBUS	Aggregate	Aggregate	Natural Ga	36.78807	636670.5	636670.5	0	95604.83	0	0.077808	0.018134	0	0.095942	0.000611	4.79E-05	0	0.000658
San Bernar	2026	SBUS	Aggregate	Aggregate	Gasoline	302.8964	4650679	4650679	0	396188.5	0	2.269939	0.09924	0.306129	2.675307	0.005217	0	0.000222	0.00544
San Bernar	2026	SBUS	Aggregate	Aggregate	Diesel	353.626	2363658	2363658	0	1674405	0	19.1474	3.896799	0.538599	23.58279	0.10748	0.004298	0	0.111777
San Bernar	2026	SBUS	Aggregate	Aggregate	Electricity	8.074559	74633.99	0	74633.99	32758.4	86299.39	0	0	0	0	0	0	0	0
San Bernar	2026	SBUS	Aggregate	Aggregate	Natural Ga	423.8774	3404613	3404613	0	2007042	0	2.402738	0.78845	0	3.191189	0.015469	0.002138	0	0.017607
San Bernar	2026	UBUS	Aggregate	Aggregate	Gasoline	54.94102	1724945	1724945	0	71862.85	0	0.079847	0	0.032035	0.111882	0.002015	0	1.64E-05	0.002031
San Bernar	2026	UBUS	Aggregate	Aggregate	Diesel	4.529432	146321.6	146321.6	0	5924.498	0	0.036275	0	0	0.036275	0.000467	0	0	0.000467
San Bernar	2026	UBUS	Aggregate	Aggregate	Electricity	11.78177	625132.2	0	625132.2	15410.55	1223068	0	0	0	0	0	0	0	0
San Bernar	2026	UBUS	Aggregate	Aggregate	Natural Ga	239.9647	10676936	10676936	0	313873.8	0	4.655603	0	0	4.655603	0.020898	0	0	0.020898

PM2.5_PM	PM2.5_PM	PM2.5_TO	PM10_RU	PM10_IDL	PM10_STR	PM10_TOT	PM10_PM	PM10_PMI	PM10_TOT	CO2_RUNE	CO2_IDLEX	CO2_STRE	CO2_TOTE	CH4_RUNE	CH4_IDLEX	CH4_STRE	CH4_TOTE	N2O_RUNE	N2O_IDLEX
0.000293	0.0018	0.002235	0.000125	0	3.01E-05	0.000155	0.00117	0.005142	0.006467	117.0986	0	1.032726	118.1313	0.0093	0	2.9E-06	0.009303	0.011094	0
5.536989	16.77075	38.79419	17.0747	0.157192	0	17.23189	22.14795	47.91643	87.29627	978099.3	60330.44	0	1038430	0.363509	1.228397	0	1.591906	154.0999	9.505085
0.058852	0.103314	0.162166	0	0	0	0.235406	0.295184	0.53059	0	0	0	0	0	0	0	0	0	0	0
0.523908	3.595534	4.221653	0.100522	0.010641	0	0.111163	2.095633	10.27295	12.47975	64528.98	6902.592	0	71431.58	93.39979	17.17486	0	110.5746	13.15466	1.407139
15.20382	19.6841	44.81367	9.184521	0	1.610639	10.79516	60.81527	56.2403	127.8507	2057185	0	53913.89	2111099	14.96362	0	49.58458	64.5482	31.60953	0
0.024476	0.032331	0.204853	0.154741	0	0	0.154741	0.097902	0.092375	0.345018	2836.397	0	0	2836.397	0.011931	0	0	0.011931	0.446876	0
0.956913	0.731875	1.688788	0	0	0	0	3.827651	2.091073	5.918723	0	0	0	0	0	0	0	0	0	0
0.556514	0.379288	1.126102	0.160433	0	0.046536	0.206969	2.226055	1.08368	3.516705	36399.27	0	1447.392	37846.66	0.11341	0	0.933407	1.046817	0.148851	0
1.040419	1.61101	3.768903	1.013453	0	0.201902	1.215355	4.161676	4.602886	9.979918	170071.5	0	5547.964	175619.5	3.836499	0	7.215278	11.05178	5.598921	0
8.22E-05	0.000144	0.009306	0.009491	0	0	0.009491	0.000329	0.00041	0.01023	17.02691	0	0	17.02691	0.000551	0	0	0.000551	0.002683	0
0.004151	0.003171	0.007322	0	0	0	0	0.016604	0.00906	0.025665	0	0	0	0	0	0	0	0	0	0
0.003836	0.00264	0.007324	0.000697	0	0.000226	0.000922	0.015343	0.007542	0.023808	226.1506	0	10.53593	236.6865	0.000695	0	0.006342	0.007036	0.000901	0
6.382838	9.422845	20.02933	3.877709	0	0.715893	4.593602	25.53135	26.92241	57.04737	1047345	0	29780.2	1077125	8.278597	0	25.95947	34.23807	17.19667	0
0.20126	0.02902	0.09175	0.044531	0	0	0.044531	0.080504	0.082914	0.207949	2949.466	0	0	2949.466	0.005556	0	0	0.005556	0.46469	0
0.05521	0.042165	0.097375	0	0	0	0	0.220839	0.120471	0.34131	0	0	0	0	0	0	0	0	0	0
0.082946	0.056856	0.161816	0.01813	0	0.005813	0.023943	0.331784	0.162445	0.518172	5112.165	0	258.6856	5370.851	0.015721	0	0.142853	0.158574	0.020405	0
0.453887	6.195558	6.917139	0.263507	0	0.027635	0.291142	1.815548	17.70159	19.80828	133936.9	713.0366	2307.114	136957	0.95581	0.676204	2.829421	4.461435	1.836231	0.017931
0.466968	4.249406	8.382891	3.719628	0.112673	0	3.832301	1.867871	12.14116	17.84133	75657.26	536.6453	0	76193.91	0.686678	0.020938	0	0.707616	11.91983	0.084549
0.013384	0.091348	0.104732	0	0	0	0	0.053537	0.260993	0.31453	0	0	0	0	0	0	0	0	0	0
0.070083	1.116079	1.221179	0.034748	0	0.003336	0.038084	0.280334	3.188797	3.507215	23688.46	136.8646	373.8795	24199.21	0.088455	0.112994	0.46252	0.663968	0.2831	0.002927
0.203149	2.156768	3.872072	1.531334	0.049194	0	1.580528	0.812597	6.162195	8.555319	39108.29	371.9739	0	39480.26	0.275925	0.009074	0	0.284999	6.161527	0.058605
0.003245	0.025834	0.029079	0	0	0	0	0.012978	0.073812	0.08679	0	0	0	0	0	0	0	0	0	0
0.047038	0.197561	0.377786	0.089811	0	0.05248	0.142292	0.188154	0.564461	0.894907	8818.928	0	748.8674	9567.795	7.608516	0	2.699289	10.30781	1.82868	0
4.462481	6.789369	14.32314	2.801919	0	0.538384	3.340303	17.84993	19.3982	40.58843	904535.7	0	26523.72	931059.5	8.129099	0	23.99054	32.11964	15.97054	0
0.05754	0.088627	0.345706	0.208561	0	0	0.208561	0.23016	0.253221	0.691942	11833.66	0	0	11833.66	0.018255	0	0	0.018255	1.864398	0
0.060385	0.046125	0.10651	0	0	0	0	0.241541	0.131785	0.373325	0	0	0	0	0	0	0	0	0	0
0.055328	0.037889	0.110326	0.014204	0	0.004403	0.018607	0.22131	0.108256	0.348173	3459.383	0	208.9457	3668.329	0.010691	0	0.093493	0.104184	0.013937	0
0.029239	0.145068	0.184253	0.010778	0	3.94E-05	0.010818	0.116956	0.414479	0.542252	17147.3	0	3.420223	17150.72	0.087732	0	0.004047	0.091779	0.205463	0
0.016836	0.062487	0.553934	0.496071	0	0	0.496071	0.067344	0.178533	0.741949	4183.846	0	0	4183.846	0.013254	0	0	0.013254	0.659167	0
0.081474	0.404229	0.514652	0.026556	0	0.00493	0.031485	0.325895	1.15494	1.51232	43124.76	268.8517	449.1522	43842.76	0.217156	0.133341	0.447863	0.798359	0.463269	0.003739
0.687109	3.411295	6.019409	1.934346	0.073518	0	2.007864	2.748435	9.746558	14.50286	245696.1	11631.92	0	257328	0.121642	0.050765	0	0.172407	38.70952	1.832614
0.013182	0.032716	0.045898	0	0	0	0	0.052726	0.093475	0.146201	0	0	0	0	0	0	0	0	0	0
0.010564	0.052383	0.067036	0.002965	0.001482	0	0.004448	0.042255	0.149665	0.196367	2796.34	398.7295	0	3195.069	1.686224	1.313545	0	2.999769	0.570052	0.081284
0.015513	0.078931	0.099667	0.004839	0	0.000842	0.005681	0.06205	0.225516	0.293247	8418.133	47.08813	77.22582	8542.447	0.047829	0.024543	0.08588	0.158252	0.097211	0.000651
0.014725	0.104481	0.288364	0.17546	0.001347	0	0.176807	0.058898	0.298517	0.534222	6427.536	189.4763	0	6617.012	0.013549	0.003105	0	0.016653	1.012661	0.029852
0.00028	0.000713	0.000993	0	0	0	0	0.00112	0.002036	0.003157	0	0	0	0	0	0	0	0	0	0
0.002105	0.010713	0.013477	0.000664	5.21E-05	0	0.000716	0.008422	0.030608	0.039746	595.1417	14.55033	0	609.692	0.387391	0.049293	0	0.436684	0.121324	0.002966
0.010253	0.084053	0.099745	0.005674	0	0.000242	0.005916	0.041012	0.240151	0.287079	4584.78	283.6874	24.40631	4892.874	0.056792	0.267612	0.031171	0.355574	0.129146	0.009115
0.007816	0.042719	0.162313	0.112339	0.004492	0	0.116831	0.031266	0.122054	0.270151	3283.025	291.5582	0	3574.583	0.016211	0.000943	0	0.017154	0.517242	0.045935
0.00022	0.000674	0.000894	0	0	0	0	0.000879	0.001927	0.002806	0	0	0	0	0	0	0	0	0	0
0.011259	0.061532	0.090398	0.016824	0.002325	0	0.019149	0.045035	0.175807	0.239991	6166.716	652.1987	0	6818.915	15.60729	2.122581	0	17.72987	1.257125	0.132955
0.003926	0.061378	0.067336	0.002191	0	1.78E-05	0.002209	0.015703	0.175367	0.19328	1261.408	0	3.373014	1264.781	0.001713	0	0.003576	0.005289	0.010029	0
0.000644	0.00621	0.007321	0.000489	0	0	0.000489	0.002574	0.017742	0.020805	158.5686	0	0	158.5686	0.000329	0	0	0.000329	0.024983	0
0.006124	0.013265	0.019389	0	0	0	0	0.024497	0.0379	0.062397	0	0	0	0	0	0	0	0	0	0
0.0935	0.441623	0.55602	0.021843	0	0	0.021843	0.374	1.261779	1.657621	21336.76	0	0	21336.76	31.09216	0	0	31.09216	4.349637	0

N2O_STRE	N2O_TOTE	ROG_RUNI	ROG_IDLE	ROG_STRE	ROG_TOTE	ROG_DIUR	ROG_HOTS	ROG_RUNI	ROG_TOTA	TOG_RUNI	TOG_IDLE	TOG_STRE	TOG_TOTE	TOG_DIUR	TOG_HOTS	TOG_RUNI	TOG_TOTA	CO_RUNEX	CO_IDLEX
0.000123	0.011218	0.053693	0	1.49E-05	0.053708	0.008532	0.002328	0.02045	0.085019	0.078349	0	1.64E-05	0.078366	0.008532	0.002328	0.02045	0.109676	2.823472	0
0	163.605	7.826246	26.44704	0	34.27329	0	0	0	34.27329	8.909585	30.10795	0	39.01753	0	0	0	39.01753	37.23144	386.5243
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	14.56179	2.100884	0.287384	0	2.388268	0	0	0	2.388268	96.1945	17.57605	0	113.7705	0	0	0	113.7705	492.3617	58.47394
25.29624	56.90577	53.39606	0	215.0193	268.4154	259.8399	68.51047	177.3583	774.1241	77.9154	0	235.4191	313.3345	259.8399	68.51047	177.3583	819.0432	5216.938	0
0	0.446876	0.256872	0	0	0.256872	0	0	0	0.256872	0.292432	0	0	0.292432	0	0	0	0.292432	3.497181	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.475927	0.624779	0.353719	0	3.741606	4.095325	2.846128	0.947907	0.87995	8.76931	0.516145	0	4.096588	4.612733	2.846128	0.947907	0.87995	9.286718	59.24237	0
2.568307	8.167228	16.98739	0	37.59699	54.58438	54.6953	13.49819	39.32642	162.1043	24.78796	0	41.16398	65.95193	54.6953	13.49819	39.32642	173.4718	865.7442	0
0	0.002683	0.011854	0	0	0.011854	0	0	0	0.011854	0.013495	0	0	0.013495	0	0	0	0.013495	0.078269	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.003197	0.004098	0.002194	0	0.025739	0.027933	0.011715	0.003777	0.00321	0.046636	0.003201	0	0.028181	0.031382	0.011715	0.003777	0.00321	0.050085	0.369386	0
12.52453	29.7212	31.37735	0	116.4517	147.8291	118.4623	28.78396	81.54273	376.6181	45.78576	0	127.5	173.2857	118.4623	28.78396	81.54273	402.0747	2563.772	0
0	0.46469	0.119625	0	0	0.119625	0	0	0	0.119625	0.136185	0	0	0.136185	0	0	0	0.136185	1.1489	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.072047	0.092452	0.04963	0	0.579478	0.629107	0.291834	0.091606	0.082415	1.094964	0.07242	0	0.634455	0.706875	0.291834	0.091606	0.082415	1.172731	8.33773	0
4.441956	6.296118	4.697761	2.428717	13.73222	20.8587	18.66311	4.255878	24.57361	68.3513	6.854961	3.543978	15.03506	25.434	18.66311	4.255878	24.57361	72.92659	222.8204	22.75012
0	12.00438	14.78378	0.450773	0	15.23455	0	0	0	15.23455	16.83035	0.513175	0	17.34353	0	0	0	17.34353	44.10236	3.736238
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.731842	1.01787	0.395819	0.407365	2.224851	3.028035	2.962188	0.660167	3.664238	10.31463	0.577578	0.594426	2.435932	3.607936	2.962188	0.660167	3.664238	10.89453	24.41667	3.753975
0	6.220131	5.940509	0.195348	0	6.135857	0	0	0	6.135857	6.762874	0.222391	0	6.985265	0	0	0	6.985265	15.37596	1.619144
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.121172	1.949852	49.26866	0	19.80391	69.07257	40.07991	57.42176	60.9524	227.5266	59.42692	0	21.53371	80.96063	40.07991	57.42176	60.9524	239.4147	590.2594	0
10.16032	26.13086	33.03325	0	116.9407	149.974	116.7533	27.05002	82.05245	375.8297	48.20015	0	128.0353	176.2355	116.7533	27.05002	82.05245	402.0913	2162.106	0
0	1.864398	0.393013	0	0	0.393013	0	0	0	0.393013	0.447419	0	0	0.447419	0	0	0	0.447419	6.700747	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.047359	0.061295	0.033595	0	0.37747	0.411064	0.219396	0.07183	0.064396	0.766686	0.049021	0	0.413282	0.462303	0.219396	0.07183	0.064396	0.817925	5.638478	0
0.005411	0.210875	0.357627	0	0.015834	0.373461	5.264599	1.216458	0.028635	6.883153	0.521848	0	0.017337	0.539185	5.264599	1.216458	0.028635	7.048876	9.956412	0
0	0.659167	0.285359	0	0	0.285359	0	0	0	0.285359	0.324862	0	0	0.324862	0	0	0	0.324862	1.267183	0
0.325436	0.792444	1.034128	0.506221	2.374714	3.915063	1.523921	0.322005	2.633007	8.393996	1.508997	0.738676	2.600013	4.847686	1.523921	0.322005	2.633007	9.326619	26.42387	7.242955
0	40.54213	2.618921	1.09296	0	3.711881	0	0	0	3.711881	2.981442	1.244252	0	4.225694	0	0	0	4.225694	12.46589	40.01752
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.651336	0.024093	0.018768	0	0.042861	0	0	0	0.042861	1.720915	1.340569	0	3.061484	0	0	0	3.061484	6.949578	2.609025
0.074368	0.17223	0.234756	0.093224	0.455489	0.783469	0.467204	0.099392	0.490362	1.840427	0.342555	0.136032	0.498703	0.97729	0.467204	0.099392	0.490362	2.034248	6.028482	0.722261
0	1.042513	0.291703	0.066842	0	0.358545	0	0	0	0.358545	0.332081	0.076095	0	0.408176	0	0	0	0.408176	1.035937	1.021792
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.12429	0.005535	0.000704	0	0.006239	0	0	0	0.006239	0.395361	0.050307	0	0.445668	0	0	0	0.445668	1.653517	0.090888
0.027744	0.166005	0.280121	1.161692	0.178028	1.61984	0.296974	0.059936	0.173147	2.149897	0.408752	1.695138	0.194918	2.298807	0.296974	0.059936	0.173147	2.828864	5.749346	8.978165
0	0.563177	0.349009	0.020311	0	0.36932	0	0	0	0.36932	0.39732	0.023123	0	0.420442	0	0	0	0.420442	0.845127	0.429812
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1.39008	0.222997	0.030327	0	0.253325	0	0	0	0.253325	15.92838	2.166249	0	18.09463	0	0	0	18.09463	51.12926	4.077956
0.004667	0.014696	0.004853	0	0.012781	0.017635	0.00912	0.002464	0.007311	0.036531	0.007082	0	0.013994	0.021076	0.00912	0.002464	0.007311	0.039972	0.993725	0
0	0.024983	0.007085	0	0	0.007085	0	0	0	0.007085	0.008065	0	0	0.008065	0	0	0	0.008065	0.006687	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	4.349637	0.525693	0	0	0.525693	0	0	0	0.525693	31.82075	0	0	31.82075	0	0	0	31.82075	418.0152	0

CO_STREX	CO_TOTEX	SOx_RUNE	SOx_IDLEX	SOx_STREX	SOx_TOTEX	NH3_RUNE	Fuel Consumption
0.08626	2.909731	0.001158	0	1.02E-05	0.001168	0.002565	12.4568
0	423.7558	9.262015	0.571293	0	9.833309	136.0231	92762.52
0	0	0	0	0	0	0	0
0	550.8357	0	0	0	0	40.78012	8256.401
2149.442	7366.38	20.33736	0	0.532994	20.87036	275.6915	222612.7
0	3.497181	0.026876	0	0	0.026876	0.037937	253.3742
0	0	0	0	0	0	0	0
28.47792	87.72029	0.359844	0	0.014309	0.374153	5.246216	3990.883
356.5994	1222.344	1.68133	0	0.054847	1.736178	19.91236	18518.86
0	0.078269	0.000161	0	0	0.000161	0.000127	1.521008
0	0	0	0	0	0	0	0
0.195904	0.56529	0.002236	0	0.000104	0.00234	0.034357	24.9583
1124.714	3688.486	10.35407	0	0.294408	10.64848	121.2807	113581.5
0	1.1489	0.027948	0	0	0.027948	0.031195	263.4746
0	0	0	0	0	0	0	0
4.41049	12.74822	0.050539	0	0.002557	0.053096	0.776513	566.3495
276.03	521.6005	1.324103	0.007049	0.022808	1.35396	10.20034	14441.95
0	47.8386	0.716891	0.005085	0	0.721976	27.28011	6806.371
0	0	0	0	0	0	0	0
43.49819	71.66883	0.234185	0.001353	0.003696	0.239234	1.576696	2551.776
0	16.99511	0.370571	0.003525	0	0.374096	12.45181	3526.756
0	0	0	0	0	0	0	0
122.0074	712.2668	0.087184	0	0.007403	0.094587	0.416114	1008.912
911.6097	3073.715	8.942257	0	0.262214	9.204471	82.69843	98179.06
0	6.700747	0.11213	0	0	0.11213	0.089187	1057.096
0	0	0	0	0	0	0	0
2.872979	8.511457	0.0342	0	0.002066	0.036265	0.526088	386.8207
0.34144	10.29785	0.169518	0	3.38E-05	0.169552	0.43796	1808.522
0	1.267183	0.039644	0	0	0.039644	0.59077	373.7413
49.83962	83.50644	0.426332	0.002658	0.00444	0.43343	1.221967	4623.165
0	52.48341	2.326595	0.110147	0	2.436742	49.48096	22987.01
0	0	0	0	0	0	0	0
0	9.558603	0	0	0	0	3.732481	369.3013
9.180557	15.9313	0.083222	0.000466	0.000763	0.084451	0.232562	900.7904
0	2.057729	0.060865	0.001794	0	0.062659	1.033105	591.0951
0	0	0	0	0	0	0	0
0	1.744405	0	0	0	0	0.743917	70.47109
3.882949	18.61046	0.045325	0.002805	0.000241	0.048371	0.230692	515.9474
0	1.274939	0.031088	0.002761	0	0.033849	0.279896	319.3161
0	0	0	0	0	0	0	0
0	55.20722	0	0	0	0	3.978118	788.1626
0.472419	1.466144	0.01247	0	3.33E-05	0.012504	0.085564	133.3696
0	0.006687	0.001503	0	0	0.001503	0.035484	14.16487
0	0	0	0	0	0	0	0
0	418.0152	0	0	0	0	11.41622	2466.204

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2027

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Cor	NOx_RUNE	NOx_IDLEX	NOx_STRE	NOx_TOTE	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_TO
San Bernar	2027	HHDT	Aggregate	Aggregate	Gasoline	2.031197	51811.42	51811.42	0	13289.35	0	0.277373	0	0.004409	0.281783	8.08E-05	0	1.52E-05	9.6E-05
San Bernar	2027	HHDT	Aggregate	Aggregate	Diesel	15410.14	5.81E+08	5.81E+08	0	72914123	0	1039.367	312.1833	230.2194	1581.769	16.60928	0.14705	0	16.75633
San Bernar	2027	HHDT	Aggregate	Aggregate	Electricity	309.5304	10097280	0	10097280	1205162	18167074	0	0	0	0	0	0	0	0
San Bernar	2027	HHDT	Aggregate	Aggregate	Natural Ga	2715.576	53942104	53942104	0	4921123	0	48.34888	7.174607	0	55.52349	0.089233	0.010478	0	0.099711
San Bernar	2027	LDA	Aggregate	Aggregate	Gasoline	455364.4	6.87E+09	6.87E+09	0	7.33E+08	0	233.3291	0	173.8381	407.1671	8.06327	0	1.427948	9.491219
San Bernar	2027	LDA	Aggregate	Aggregate	Diesel	838.6676	10166496	10166496	0	1249197	0	1.293373	0	0	1.293373	0.113583	0	0	0.113583
San Bernar	2027	LDA	Aggregate	Aggregate	Electricity	29132.46	4.77E+08	0	4.77E+08	50156564	1.84E+08	0	0	0	0	0	0	0	0
San Bernar	2027	LDA	Aggregate	Aggregate	Plug-in Hy	15443.23	2.64E+08	1.23E+08	1.41E+08	22158639	42571472	0.824081	0	2.715518	3.539599	0.143745	0	0.04316	0.186905
San Bernar	2027	LDT1	Aggregate	Aggregate	Gasoline	38336.73	4.64E+08	4.64E+08	0	57643103	0	68.43781	0	24.74181	93.17962	0.85411	0	0.171207	1.025317
San Bernar	2027	LDT1	Aggregate	Aggregate	Diesel	4.439853	22616.67	22616.67	0	4324.856	0	0.031884	0	0	0.031884	0.004852	0	0	0.004852
San Bernar	2027	LDT1	Aggregate	Aggregate	Electricity	144.0546	2459077	0	2459077	250953.2	949406.8	0	0	0	0	0	0	0	0
San Bernar	2027	LDT1	Aggregate	Aggregate	Plug-in Hy	128.8782	2212048	932175.5	1279873	184920.2	386559.7	0.006259	0	0.022662	0.028921	0.000751	0	0.000249	0.001
San Bernar	2027	LDT2	Aggregate	Aggregate	Gasoline	207676.4	2.96E+09	2.96E+09	0	3.38E+08	0	172.0485	0	101.9736	274.0221	3.480321	0	0.647276	4.127597
San Bernar	2027	LDT2	Aggregate	Aggregate	Diesel	630.9552	9599507	9599507	0	1056592	0	0.365707	0	0	0.365707	0.040629	0	0	0.040629
San Bernar	2027	LDT2	Aggregate	Aggregate	Electricity	2524.548	30140958	0	30140958	4418151	11636898	0	0	0	0	0	0	0	0
San Bernar	2027	LDT2	Aggregate	Aggregate	Plug-in Hy	2587.065	42523043	18691285	23831759	3712038	7197901	0.125502	0	0.454906	0.580409	0.017526	0	0.005786	0.023312
San Bernar	2027	LHDT1	Aggregate	Aggregate	Gasoline	16631.76	2.04E+08	2.04E+08	0	81026836	0	28.55777	0.204296	51.86059	80.62265	0.240409	0	0.023615	0.264024
San Bernar	2027	LHDT1	Aggregate	Aggregate	Diesel	11353.6	1.4E+08	1.4E+08	0	46700166	0	196.8323	7.534251	0	204.3665	3.327573	0.10718	0	3.434753
San Bernar	2027	LHDT1	Aggregate	Aggregate	Electricity	483.3007	10099084	0	10099084	2212209	5657392	0	0	0	0	0	0	0	0
San Bernar	2027	LHDT2	Aggregate	Aggregate	Gasoline	2701.098	30903906	30903906	0	13159242	0	3.853152	0.033901	8.793509	12.68056	0.031111	0	0.002796	0.033907
San Bernar	2027	LHDT2	Aggregate	Aggregate	Diesel	4973.211	61290839	61290839	0	20456052	0	69.28363	3.221244	0	72.50487	1.397478	0.047487	0	1.444965
San Bernar	2027	LHDT2	Aggregate	Aggregate	Electricity	122.937	2448702	0	2448702	533243.4	1373045	0	0	0	0	0	0	0	0
San Bernar	2027	MCY	Aggregate	Aggregate	Gasoline	20938.6	42574984	42574984	0	14531385	0	25.54142	0	1.946293	27.48771	0.084582	0	0.049212	0.133795
San Bernar	2027	MDV	Aggregate	Aggregate	Gasoline	147488.8	2.03E+09	2.03E+09	0	2.34E+08	0	177.2931	0	94.39265	271.6858	2.463423	0	0.475929	2.939352
San Bernar	2027	MDV	Aggregate	Aggregate	Diesel	1888.455	25739839	25739839	0	3004504	0	2.94936	0	0	2.94936	0.175039	0	0	0.175039
San Bernar	2027	MDV	Aggregate	Aggregate	Electricity	2733.49	32538904	0	32538904	4779389	12562703	0	0	0	0	0	0	0	0
San Bernar	2027	MDV	Aggregate	Aggregate	Plug-in Hy	1684.991	28397057	12619041	15778017	2417701	4765431	0.08473	0	0.296287	0.381017	0.013443	0	0.004309	0.017752
San Bernar	2027	MH	Aggregate	Aggregate	Gasoline	2916.369	8416092	8416092	0	95403.4	0	2.65793	0	0.047398	2.705328	0.009215	0	3.35E-05	0.009248
San Bernar	2027	MH	Aggregate	Aggregate	Diesel	1309.206	3757777	3757777	0	42811.04	0	14.98544	0	0	14.98544	0.449246	0	0	0.449246
San Bernar	2027	MHDT	Aggregate	Aggregate	Gasoline	1363.931	24100030	24100030	0	8923679	0	7.241609	0.041082	3.841495	11.12419	0.024153	0	0.004348	0.028501
San Bernar	2027	MHDT	Aggregate	Aggregate	Diesel	16024.85	2.09E+08	2.09E+08	0	61412707	0	140.0662	57.62599	111.0859	308.7781	1.714109	0.060066	0	1.774175
San Bernar	2027	MHDT	Aggregate	Aggregate	Electricity	415.4449	6678374	0	6678374	1657815	6987760	0	0	0	0	0	0	0	0
San Bernar	2027	MHDT	Aggregate	Aggregate	Natural Ga	231.558	3289344	3289344	0	667294.5	0	0.325096	0.515793	0	0.840889	0.002905	0.00146	0	0.004365
San Bernar	2027	OBUS	Aggregate	Aggregate	Gasoline	338.498	4473073	4473073	0	2214662	0	1.786655	0.007492	0.949274	2.743421	0.004406	0	0.000756	0.005163
San Bernar	2027	OBUS	Aggregate	Aggregate	Diesel	224.2897	4468270	4468270	0	786039.1	0	8.05515	0.861072	1.3985	10.31472	0.156832	0.001186	0	0.158018
San Bernar	2027	OBUS	Aggregate	Aggregate	Electricity	5.327608	133402.6	0	133402.6	34856.49	140101.8	0	0	0	0	0	0	0	0
San Bernar	2027	OBUS	Aggregate	Aggregate	Natural Ga	38.43104	655719.1	655719.1	0	99874.6	0	0.076197	0.018883	0	0.09508	0.000671	5.14E-05	0	0.000722
San Bernar	2027	SBUS	Aggregate	Aggregate	Gasoline	305.3092	4680209	4680209	0	399344.4	0	2.22185	0.099197	0.314278	2.635325	0.005263	0	0.000225	0.005489
San Bernar	2027	SBUS	Aggregate	Aggregate	Diesel	342.2197	2276622	2276622	0	1620397	0	17.55956	3.680767	0.550426	21.79076	0.098817	0.003914	0	0.102731
San Bernar	2027	SBUS	Aggregate	Aggregate	Electricity	13.0117	120706.6	0	120706.6	52769.56	139573.2	0	0	0	0	0	0	0	0
San Bernar	2027	SBUS	Aggregate	Aggregate	Natural Ga	435.6656	3460594	3460594	0	2062859	0	2.382039	0.809523	0	3.191561	0.015723	0.002218	0	0.017941
San Bernar	2027	UBUS	Aggregate	Aggregate	Gasoline	55.04919	1728357	1728357	0	72004.35	0	0.080217	0	0.031782	0.111999	0.002028	0	1.64E-05	0.002044
San Bernar	2027	UBUS	Aggregate	Aggregate	Diesel	4.529432	146321.6	146321.6	0	5924.498	0	0.036639	0	0	0.036639	0.000457	0	0	0.000457
San Bernar	2027	UBUS	Aggregate	Aggregate	Electricity	29.1308	1490754	0	1490754	38103.08	2919528	0	0	0	0	0	0	0	0
San Bernar	2027	UBUS	Aggregate	Aggregate	Natural Ga	223.1331	9834385	9834385	0	291858.2	0	3.40926	0	0	3.40926	0.022316	0	0	0.022316

PM2.5_PM	PM2.5_PM	PM2.5_TO	PM10_RU	PM10_IDL	PM10_STR	PM10_TOT	PM10_PM	PM10_PMI	PM10_TOT	CO2_RUNE	CO2_IDLEX	CO2_STRE	CO2_TOTE	CH4_RUNE	CH4_IDLEX	CH4_STRE	CH4_TOTE	N2O_RUNE	N2O_IDLE
0.000286	0.001726	0.002108	8.79E-05	0	1.65E-05	0.000104	0.001142	0.004932	0.006179	109.143	0	0.794708	109.9377	0.00626	0	2.72E-06	0.006262	0.009185	0
5.629439	17.16564	39.55141	17.36027	0.153698	0	17.51397	22.51776	49.04469	89.07642	979465.7	60656.66	0	1040122	0.360755	1.255399	0	1.616154	154.3152	9.556482
0.095419	0.170916	0.266335	0	0	0	0	0.381676	0.48833	0.870007	0	0	0	0	0	0	0	0	0	0
0.535149	3.66912	4.30398	0.097049	0.011396	0	0.108444	2.140596	10.4832	12.73224	65008.8	7069.397	0	72078.2	89.05103	17.06012	0	106.1111	13.25247	1.441143
15.13762	19.77522	44.40406	8.769542	0	1.553024	10.32257	60.55049	56.50063	127.3737	2007684	0	52655.05	2060339	13.87488	0	47.0126	60.88749	30.37094	0
0.022413	0.029916	0.165912	0.118718	0	0	0.118718	0.089653	0.085474	0.293846	2561.024	0	0	2561.024	0.009601	0	0	0.009601	0.40349	0
1.05218	0.805207	1.857388	0	0	0	0	4.20872	2.300593	6.509313	0	0	0	0	0	0	0	0	0	0
0.581322	0.398551	1.166778	0.156336	0	0.04694	0.203277	2.325287	1.138716	3.66728	37433	0	1514.114	38947.11	0.116515	0	0.985301	1.101815	0.152	0
1.023879	1.596743	3.645939	0.928923	0	0.186203	1.115126	4.095517	4.562122	9.772765	164194.8	0	5320.352	169515.2	3.382109	0	6.608872	9.99098	5.042847	0
4.99E-05	8.7E-05	0.004989	0.005071	0	0	0.005071	0.000199	0.000249	0.005519	10.00144	0	0	10.00144	0.000302	0	0	0.000302	0.001576	0
0.005421	0.004142	0.009563	0	0	0	0	0.021685	0.011835	0.03352	0	0	0	0	0	0	0	0	0	0
0.004877	0.003372	0.009249	0.000817	0	0.000271	0.001088	0.019507	0.009634	0.030228	284.7641	0	13.39315	298.1573	0.000875	0	0.00813	0.009005	0.001129	0
6.532197	9.736912	20.39671	3.785167	0	0.703971	4.489138	26.12879	27.81975	58.43768	1047499	0	29771.13	1077270	7.862672	0	25.1843	33.04697	16.63481	0
0.021163	0.030896	0.092688	0.042466	0	0	0.042466	0.084653	0.088274	0.215393	3040.703	0	0	3040.703	0.005616	0	0	0.005616	0.479064	0
0.066449	0.05078	0.11723	0	0	0	0	0.265798	0.145086	0.410884	0	0	0	0	0	0	0	0	0	0
0.093747	0.064604	0.181664	0.019062	0	0.006293	0.025354	0.374989	0.184584	0.584927	5705.643	0	292.7807	5998.424	0.017537	0	0.163174	0.180711	0.022631	0
0.450072	6.143481	6.857577	0.261467	0	0.025684	0.287151	1.800287	17.5528	19.64024	130336.2	700.5942	2279.27	133316	0.842534	0.65559	2.698132	4.196256	1.644755	0.017556
0.462527	4.208999	8.106279	3.478031	0.112026	0	3.590057	1.850109	12.02571	17.46588	74808.44	530.0215	0	75338.46	0.638636	0.020864	0	0.6595	11.7861	0.083505
0.022265	0.151956	0.174221	0	0	0	0	0.089059	0.434161	0.52322	0	0	0	0	0	0	0	0	0	0
0.068131	1.084993	1.187032	0.033836	0	0.003041	0.036877	0.272526	3.099981	3.409384	22701.67	132.9812	363.3749	23198.03	0.075008	0.108192	0.437404	0.620605	0.252768	0.002818
0.202685	2.151837	3.799486	1.460666	0.049634	0	1.5103	0.810739	6.148104	8.469143	38869.35	371.4683	0	39240.82	0.26147	0.009139	0	0.270609	6.123882	0.058525
0.005398	0.042985	0.048384	0	0	0	0	0.021594	0.122815	0.144409	0	0	0	0	0	0	0	0	0	0
0.046931	0.19711	0.377836	0.090533	0	0.052486	0.143019	0.187724	0.563171	0.893913	8776.763	0	735.1238	9511.886	7.423347	0	2.641034	10.06438	1.800572	0
4.473083	6.862578	14.27501	2.679197	0	0.517616	3.196813	17.89233	19.60737	40.69651	886147.1	0	25947.74	912094.8	7.397553	0	22.4162	29.81375	14.76957	0
0.056747	0.088327	0.320113	0.182954	0	0	0.182954	0.226987	0.252363	0.662303	11445.4	0	0	11445.4	0.0165	0	0	0.0165	1.803228	0
0.071736	0.054837	0.126573	0	0	0	0	0.286944	0.156678	0.443623	0	0	0	0	0	0	0	0	0	0
0.062605	0.04312	0.123478	0.014621	0	0.004687	0.019307	0.250419	0.123201	0.392928	3851.486	0	235.6481	4087.134	0.011892	0	0.106745	0.118637	0.015409	0
0.027831	0.138238	0.175318	0.010022	0	3.64E-05	0.010058	0.111326	0.394966	0.51635	16339.82	0	3.242533	16343.06	0.075489	0	0.00382	0.079309	0.1858	0
0.016569	0.061541	0.527356	0.469559	0	0	0.469559	0.066276	0.17583	0.711665	4125.541	0	0	4125.541	0.012827	0	0	0.012827	0.649981	0
0.079697	0.395854	0.504052	0.026268	0	0.004729	0.030997	0.318789	1.131011	1.480797	41784.71	260.4894	432.5839	42477.78	0.18462	0.131012	0.426961	0.742593	0.410183	0.003609
0.692318	3.441023	5.907517	1.791613	0.062782	0	1.854395	2.769273	9.831495	14.45516	246626.1	11768.26	0	258394.4	0.111083	0.050393	0	0.161476	38.85605	1.854094
0.022085	0.054876	0.076961	0	0	0	0	0.088834	0.156789	0.245129	0	0	0	0	0	0	0	0	0	0
0.010878	0.053993	0.069236	0.00316	0.001588	0	0.004748	0.043511	0.154264	0.202523	2878.002	419.633	0	3297.635	1.762165	1.366118	0	3.128283	0.5867	0.085545
0.014792	0.075539	0.095494	0.004792	0	0.000823	0.005615	0.059169	0.215825	0.280608	7962.702	45.47911	74.51886	8082.7	0.042483	0.023801	0.082486	0.148769	0.087811	0.000618
0.014776	0.106035	0.27883	0.163924	0.001239	0	0.165163	0.059105	0.302958	0.527226	6386.617	193.5223	0	6580.139	0.012979	0.003199	0	0.016178	1.006214	0.03049
0.000441	0.001126	0.001568	0	0	0	0	0.001765	0.003218	0.004983	0	0	0	0	0	0	0	0	0	0
0.002168	0.011073	0.013964	0.00073	5.6E-05	0	0.000785	0.008674	0.031638	0.041097	610.3668	15.12722	0	625.494	0.412083	0.050747	0	0.462829	0.124427	0.003084
0.010318	0.084586	0.100393	0.005724	0	0.000245	0.005969	0.041272	0.241676	0.288917	4602.447	285.3112	24.50146	4912.26	0.054809	0.269852	0.031439	0.356101	0.128119	0.009074
0.007529	0.041146	0.151406	0.103285	0.004091	0	0.107376	0.030115	0.11756	0.25505	3151.016	281.229	0	3432.245	0.015149	0.000903	0	0.016052	0.496444	0.044308
0.000356	0.001091	0.001446	0	0	0	0	0.001422	0.003117	0.004539	0	0	0	0	0	0	0	0	0	0
0.011444	0.062544	0.091929	0.017101	0.002412	0	0.019513	0.045776	0.178697	0.243986	6237.63	670.3687	0	6907.999	15.72303	2.171057	0	17.89409	1.271582	0.136659
0.003934	0.0615	0.067477	0.002205	0	1.79E-05	0.002223	0.015734	0.175713	0.19367	1267.37	0	3.361317	1270.732	0.00169	0	0.003593	0.005283	0.009977	0
0.000644	0.00621	0.007311	0.000478	0	0	0.000478	0.002574	0.017742	0.020795	159.067	0	0	159.067	0.000332	0	0	0.000332	0.025061	0
0.01471	0.031633	0.046343	0	0	0	0	0.058841	0.09038	0.149221	0	0	0	0	0	0	0	0	0	0
0.085116	0.405842	0.513275	0.023326	0	0	0.023326	0.340463	1.15955	1.523339	19289.67	0	0	19289.67	32.46774	0	0	32.46774	3.932325	0

N2O_STRE	N2O_TOTE	ROG_RUNI	ROG_IDLE	ROG_STRE	ROG_TOTE	ROG_DIUR	ROG_HOTS	ROG_RUNI	ROG_TOTA	TOG_RUNE	TOG_IDLE	TOG_STRE	TOG_TOTE	TOG_DIUR	TOG_HOTS	TOG_RUNI	TOG_TOTA	CO_RUNEX	CO_IDLEX
0.000173	0.009358	0.033362	0	1.4E-05	0.033376	0.005631	0.001537	0.013438	0.053982	0.048682	0	1.53E-05	0.048697	0.005631	0.001537	0.013438	0.069303	1.70463	0
0	163.8717	7.766956	27.02839	0	34.79535	0	0	0	34.79535	8.842088	30.76977	0	39.61186	0	0	0	39.61186	36.1524	395.6399
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	14.69361	1.958191	0.281392	0	2.239583	0	0	0	2.239583	91.66449	17.45398	0	109.1185	0	0	0	109.1185	483.0906	59.30237
24.67607	55.047	48.78119	0	202.3035	251.0847	256.8554	66.34599	176.4628	750.7488	71.1814	0	221.4969	292.6783	256.8554	66.34599	176.4628	792.3424	4993.883	0
0	0.40349	0.206693	0	0	0.206693	0	0	0	0.206693	0.235307	0	0	0.235307	0	0	0	0.235307	3.053629	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.500502	0.652503	0.364869	0	3.965615	4.330485	3.157546	1.019299	1.029973	9.537303	0.532416	0	4.34185	4.874266	3.157546	1.019299	1.029973	10.08108	60.98895	0
2.439901	7.482749	14.88164	0	34.11122	48.99286	51.04327	12.48512	36.25257	148.7738	21.71525	0	37.34749	59.06274	51.04327	12.48512	36.25257	158.8437	782.466	0
0	0.001576	0.006501	0	0	0.006501	0	0	0	0.006501	0.007401	0	0	0.007401	0	0	0	0.007401	0.049503	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.004087	0.005216	0.002771	0	0.033094	0.035865	0.015082	0.004813	0.00411	0.05987	0.004044	0	0.036234	0.040278	0.015082	0.004813	0.00411	0.064282	0.465524	0
12.50905	29.14386	29.36922	0	111.8763	141.2455	117.6238	28.22573	81.13358	368.2285	42.85549	0	122.4904	165.3459	117.6238	28.22573	81.13358	392.329	2504.756	0
0	0.479064	0.120919	0	0	0.120919	0	0	0	0.120919	0.137658	0	0	0.137658	0	0	0	0.137658	1.19068	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.08201	0.104642	0.055567	0	0.664324	0.719891	0.331892	0.105051	0.093177	1.250012	0.081084	0	0.727351	0.808435	0.331892	0.105051	0.093177	1.338556	9.312812	0
4.308083	5.970393	4.112427	2.341457	13.03938	19.49327	17.77316	4.008511	23.41	64.68494	6.000843	3.416648	14.27648	23.69397	17.77316	4.008511	23.41	68.88565	211.8651	22.54367
0	11.86961	13.74946	0.449188	0	14.19865	0	0	0	14.19865	15.65285	0.511371	0	16.16422	0	0	0	16.16422	40.19612	3.723103
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.702586	0.958172	0.330535	0.388975	2.095749	2.81526	2.829777	0.622051	3.487339	9.754427	0.482316	0.567592	2.294582	3.34449	2.829777	0.622051	3.487339	10.28366	22.87449	3.671446
0	6.182407	5.629304	0.196758	0	5.826062	0	0	0	5.826062	6.408588	0.223996	0	6.632584	0	0	0	6.632584	14.42843	1.630829
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.116958	1.91753	47.68053	0	19.30165	66.98217	40.21547	57.58333	61.39695	226.1779	57.70865	0	20.98981	78.69846	40.21547	57.58333	61.39695	237.8942	572.9378	0
9.808765	24.57833	29.64903	0	107.8856	137.5346	114.5922	26.10296	80.47108	358.7009	43.26379	0	118.1212	161.385	114.5922	26.10296	80.47108	382.5512	2041.247	0
0	1.803228	0.355226	0	0	0.355226	0	0	0	0.355226	0.404401	0	0	0.404401	0	0	0	0.404401	6.330667	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.05387	0.069279	0.037515	0	0.432683	0.470198	0.253117	0.081427	0.075921	0.880663	0.054742	0	0.473734	0.528476	0.253117	0.081427	0.075921	0.93894	6.284496	0
0.005311	0.191111	0.300567	0	0.014808	0.315375	4.907291	1.110431	0.026459	6.359556	0.438586	0	0.016213	0.454799	4.907291	1.110431	0.026459	6.49898	8.092929	0
0	0.649981	0.276151	0	0	0.276151	0	0	0	0.276151	0.314379	0	0	0.314379	0	0	0	0.314379	1.216083	0
0.314369	0.728161	0.867395	0.495267	2.243132	3.605794	1.444141	0.298826	2.481917	7.830679	1.265701	0.722692	2.455948	4.44434	1.444141	0.298826	2.481917	8.669225	21.79047	7.083819
0	40.71014	2.391597	1.084946	0	3.476543	0	0	0	3.476543	2.722651	1.235128	0	3.957779	0	0	0	3.957779	11.87927	40.80274
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.672245	0.025178	0.019519	0	0.044697	0	0	0	0.044697	1.798418	1.394224	0	3.192642	0	0	0	3.192642	7.132108	2.804779
0.072032	0.160461	0.207144	0.090572	0.437532	0.735247	0.462017	0.096557	0.486524	1.780346	0.302263	0.132162	0.479042	0.913468	0.462017	0.096557	0.486524	1.958566	5.329846	0.701667
0	1.036704	0.279426	0.068872	0	0.348298	0	0	0	0.348298	0.318105	0.078406	0	0.396511	0	0	0	0.396511	1.002233	1.05729
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.127511	0.005888	0.000725	0	0.006613	0	0	0	0.006613	0.420561	0.051791	0	0.472351	0	0	0	0.472351	1.721135	0.098204
0.0284	0.165592	0.269879	1.171104	0.179298	1.620281	0.325124	0.063455	0.191723	2.200583	0.393807	1.708872	0.196309	2.298988	0.325124	0.063455	0.191723	2.87929	5.552249	9.050644
0	0.540752	0.326153	0.019439	0	0.345591	0	0	0	0.345591	0.3713	0.022129	0	0.393429	0	0	0	0.393429	0.795783	0.431215
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1.408241	0.224651	0.03102	0	0.255671	0	0	0	0.255671	16.04651	2.215723	0	18.26223	0	0	0	18.26223	51.28294	4.237334
0.004619	0.014596	0.004799	0	0.012873	0.017672	0.009149	0.002458	0.007326	0.036604	0.007002	0	0.014094	0.021097	0.009149	0.002458	0.007326	0.040029	1.001294	0
0	0.025061	0.007138	0	0	0.007138	0	0	0	0.007138	0.008126	0	0	0.008126	0	0	0	0.008126	0.006752	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	3.932325	0.54697	0	0	0.54697	0	0	0	0.54697	33.2264	0	0	33.2264	0	0	0	33.2264	414.591	0

CO_STREX	CO_TOTEX	SOx_RUNE	SOx_IDLEX	SOx_STREX	SOx_TOTEX	NH3_RUNE	Fuel Consumption
0.074068	1.778698	0.001079	0	7.86E-06	0.001087	0.00257	11.59279
0	431.7923	9.274954	0.574382	0	9.849336	138.524	92913.71
0	0	0	0	0	0	0	0
0	542.393	0	0	0	0	41.72808	8331.14
2045.299	7039.182	19.848	0	0.520549	20.36855	280.5005	217260.2
0	3.053629	0.024267	0	0	0.024267	0.034741	228.7752
0	0	0	0	0	0	0	0
30.18289	91.17183	0.370063	0	0.014969	0.385032	5.423385	4106.924
324.777	1107.243	1.623233	0	0.052597	1.67583	19.69377	17875.16
0	0.049503	9.48E-05	0	0	9.48E-05	7.73E-05	0.893425
0	0	0	0	0	0	0	0
0.251885	0.717408	0.002815	0	0.000132	0.002948	0.043157	31.44031
1095.222	3599.979	10.35559	0	0.294318	10.64991	126.0863	113596.7
0	1.19068	0.028812	0	0	0.028812	0.032803	271.6248
0	0	0	0	0	0	0	0
5.056268	14.36908	0.056406	0	0.002894	0.059301	0.864733	632.5263
276.602	511.0108	1.288506	0.006926	0.022533	1.317965	10.1199	14058.01
0	43.91922	0.708848	0.005022	0	0.71387	27.74739	6729.955
0	0	0	0	0	0	0	0
42.6859	69.23184	0.224429	0.001315	0.003592	0.229336	1.532957	2446.203
0	16.05926	0.368307	0.00352	0	0.371827	12.67185	3505.367
0	0	0	0	0	0	0	0
121.7571	694.6949	0.086767	0	0.007267	0.094035	0.416903	1003.017
864.0237	2905.271	8.760466	0	0.25652	9.016986	84.21801	96179.26
0	6.330667	0.108451	0	0	0.108451	0.087957	1022.413
0	0	0	0	0	0	0	0
3.293216	9.577712	0.038076	0	0.00233	0.040405	0.584225	430.9832
0.317678	8.410607	0.161536	0	3.21E-05	0.161568	0.417163	1723.355
0	1.216083	0.039092	0	0	0.039092	0.598432	368.5329
46.88662	75.76091	0.413084	0.002575	0.004277	0.419936	1.195458	4479.229
0	52.68201	2.335402	0.111438	0	2.44684	49.9987	23082.27
0	0	0	0	0	0	0	0
0	9.936886	0	0	0	0	3.843433	381.1564
8.836416	14.86793	0.078719	0.00045	0.000737	0.079906	0.221824	852.3106
0	2.059524	0.060477	0.001833	0	0.06231	1.039237	587.8012
0	0	0	0	0	0	0	0
0	1.81934	0	0	0	0	0.766175	72.29756
3.878473	18.48137	0.0455	0.002821	0.000242	0.048563	0.232157	517.9917
0	1.226998	0.029838	0.002663	0	0.032501	0.283188	306.6011
0	0	0	0	0	0	0	0
0	55.52027	0	0	0	0	4.04353	798.4593
0.461917	1.463211	0.012529	0	3.32E-05	0.012562	0.085733	133.9971
0	0.006752	0.001507	0	0	0.001507	0.035484	14.20939
0	0	0	0	0	0	0	0
0	414.591	0	0	0	0	10.51533	2229.591

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