

APPENDIX G

NORTH BAYSHORE ALTERNATIVE ANALYSES

APPENDIX G-1

North Bayshore Alt GGRP Analysis

Communitywide GHG Emissions and Projections: 2005, 2020, and 2030

Emission Sector	Subsector	2005 Emissions (MT CO ₂ e/year)	2020 Emissions (MT CO ₂ e/year)	2030 Emissions (MT CO ₂ e/year)
Energy - Residential	Electricity	36,307	40,616	43,769
	Natural Gas	64,065	76,615	86,319
Energy - Commercial	Electricity	108,220	135,271	156,965
	Natural Gas	52,005	64,019	73,534
Energy - Industrial	Electricity	4,308	3,470	3,004
	Natural Gas	5,066	4,081	3,533
Direct Access	Electricity	25,591	25,591	25,591
	Subtotal	295,562	349,663	392,715
Transportation	Subtotal	474,180	533,013	576,318
Waste	Solid Waste	11,113	11,237	11,320
	Alt Daily Cover	70	70	71
	Subtotal	11,183	11,307	11,391
Water	Water Demand	4,384	4,906	5,287
	Wastewater Treatment	5,117	5,672	6,074
	Subtotal	9,502	10,577	11,362
Off-Road Mobile	Construction	4,793	5,959	6,890
	Lawn and Garden Equipment	1,767	2,095	2,347
	Subtotal	6,561	8,054	9,236
Total		796,987	912,615	1,001,023

Mountain View Greenhouse Gas Reduction Plan –
Revised Metrics per Draft 2030 General Plan (Less N. Bayshore Residential and 500k sf Office)

GGRP Measures and Quantified Reductions: 2020 and 2030			
Energy		2020 (MT CO ₂ e/year)	2030 (MT CO ₂ e/year)
Energy Efficiency			
E-1.1	Residential Energy Efficiency Retrofit	1,004	2,640
E-1.2	Non-Residential Energy Efficiency Retrofit	1,074	2,799
E-1.3	Non-Residential Lighting Retrofit	746	4,952
E-1.4	Residential Energy Star Appliances	116	507
E-1.5	Smart Grid	873	3,849
E-1.6	Exceed State Energy Standards in New Residential Development	931	3,256
E-1.7	Exceed State Energy Standards in New Non-Residential Development	937	3,691
E-1.8	Building Shade Trees in Residential Development	17	49
Renewable Energy			
E-2.1	Residential Solar Water Heaters	1,362	4,443
E-2.2	Non-Residential Solar Water Heaters	129	456
E-2.3	Residential Solar Photovoltaic System	347	573
E-2.4	Non-Residential Solar Photovoltaic System	1,574	3,148
E-2.5	Landfill Gas to Energy	2,827	2,827
Municipal Building Energy			
E-3.1	Energy Efficiency in Municipal Buildings	154	154
Municipal Streetlights and Traffic Lights			
E-4.1	Energy Efficiency in Streetlights and Traffic Lights	229	229
Municipal Renewables			
E-5.1	Solar Photovoltaic Systems on Municipal Buildings	78	73
Subtotal		12,397	33,648
Solid Waste			
SW-1.1	Zero Waste Plan Implementation	2,734	6,718
Subtotal		2,734	6,718
Water			
W-1.1	Urban Water Management Plan Conservation Strategies	1,071	1,669
Subtotal		1,071	1,669
Transportation			
		Transportation Demand Management Measures	1,024 1,844
Subtotal		1,024	1,844
Carbon Sequestration			
CS-1.1	Enhance the Urban Forest	680	1,000
Subtotal		680	1,000
SUBTOTAL GGRP MEASURES		17,906	44,878
Statewide Reductions			
		Passenger vehicle and light-duty truck fuel efficiency standards	70,711 113,882
		Low carbon fuel standard	36,014 31,697
		Medium- and heavy-duty vehicle efficiency improvement program	3,196 3,525
		2008 California Title-24 standard	4,523 8,094
		Renewable portfolio standard (33% by 2020)	42,834 47,930
Subtotal		157,279	205,128
TOTAL REDUCTIONS		175,185	250,006

APPENDIX G-2

North Bayshore Alt Traffic Memo

APPENDIX G-3

North Bayshore Alt Noise Modeling

APPENDIX G-4

North Bayshore Additional Information

