Appendix C

Greenhouse Gas Inventory

ASCENT

Town of Truckee Climate Action Plan Greenhouse Gas Emissions Summary

	GHG Inve	entory and Forecast Su	immary			
	Inventory and Business-a	as-Usual (BAU) Forecast G	HG Emissions (MTCC	0 ₂ e)		
Sector	2008	2016	2030	2040	2045	2050
Building Energy	151,870	158,014	185,689	203,295	212,715	222,571
Residential Building Energy	100,000	105,579	124,980	136,831	143,171	149,805
Non-Residential Building Energy	51,870	52,434	60,708	66,465	69,544	72,767
Community Transportation	64,047	57,999	64,571	70,019	72,734	75,337
On-Road Transportation	55,653	49,839	55,326	60,026	62,655	65,167
Off-Road Equipment	8,393	8,160	9,245	9,992	10,079	10,169
Solid Waste	4,256	3,804	3,887	3,923	3,958	3,994
Water and Wastewater	10,175	8,517	9,568	9,667	9,253	9,308
TOTAL	230,348	228,334	263,715	286,903	298,660	311,210

Inventory and Legislative-Adjusted Business-as-Usual (ABAU) Forecast GHG Emissions (MTCO ₂ e)							
Sector	2008	2016	2030	2040	2045	2050	
Building Energy	151,870	89,894	93,291	84,887	69,992	71,760	
Residential Building Energy	100,000	64,679	66,700	62,099	53,389	54,739	
Non-Residential Building Energy	51,870	25,216	26,591	22,789	16,604	17,021	
Community Transportation	64,047	56,428	54,474	57,257	58,085	59,733	
On-Road Transportation	55,653	48,268	45,229	47,264	48,006	49,564	
Off-Road Equipment	8,393	8,160	9,245	9,992	10,079	10,169	
Solid Waste	4,256	3,804	3,887	3,922	3,958	3,994	
Water and Wastewater	10,175	3,142	3,386	2,573	1,187	1,242	
TOTAL	230,348	153,269	155,038	148,640	133,222	136,729	

	GHG <u>Emis</u>	sions Reduction Measure S	ummary				
Contor				nnual GHG Emissions Reduction (MTCO ₂ e)			
Sector	Measure #	Title	2030	2040	2045	2	
Transportation and Land Use	GOAL CAP-1	Reduction in Vehicle Miles Traveled	1,087	1,372	1,678		
	GOAL CAP-2	Bicycle and Pedestrian Trips	869	1,472	1,746		
	GOAL CAP-3	Transit System	800	1,564	1,530		
	GOAL CAP-4	Low- and Zero-Emissions Vehicles	317	668	1,018		
	GOAL CAP-5	Land Use Patterns	240	219	209		
	GOAL CAP-6	Open Space Carbon Sequestration	2,775	5,550	8,325		
Building Energy	GOAL CAP-7a	Energy Efficiency in Existing Development (CAP-7.A Building Energy Retrofit Program)	15,864	36,997	29,790		
	GOAL CAP-7b	Energy Efficiency in Existing Development (CAP-7.B Renewable Energy Sources)	11,763	14,875	29,471		
	GOAL CAP-7c	Energy Efficiency in Existing Development (CAP-7.G Water Conservation)	12	7	0		
	GOAL CAP-8	Energy Efficiency in New Development	465	5,740	6,649		
Solid Waste	GOAL CAP-9	Organic Waste	1,166	2,353	2,969		
Total GHG Reductions from CAP (MTCO2e)				70,817	83,384		

Inventory/Forecasts, Reduction Targets and Gap, and CAP Reductions Summary							
	2008	2016	2030	2040	2045	20	
Inventory and ABAU Forecast Emissions	230,348	153,269	155,038	148,640	133,222		
Target Percent Reduction below 2008 Levels			40%	80%	100%		
Target Annual Mass Emissions Level			138,209	46,070	-		
Reduction Needed to Achieve Targets			16,829	102,570	133,222		
Total GHG Reductions from CAP			35,359	70,817	83,384		
Remaining Gap to Achieve Target ¹			(18,529)	31,754	49,838		
% Reduction achieved			210%	69%	63%		

¹ Parentheses indicates target has been achieved with a surplus of reductions.

2050
2,064
2,050
1,569
1,325
209
11,100
29,790
29,471
0
8,416
2,996
88,990

2050
136,729
100%
-
136,729
88,990
47,739
65%