APPENDICES

TABLE 2: Regional Greenhouse Gas Inventory						
Sector/Activity	Fuel or Source	2021 Usage/Activity	Units	2021 Emissions (MT CO2e)	Percent of Total	
Residential Energy	Electricity	13,131,506,026	kWh	4,026,759	12.51%	
	Wood	1,926,115	MMBtu	18,764	0.06%	
	Distillate Fuel Oil					
	No. 2	6,623,955	MMBtu	493,177	1.53%	
	Propane	3,194,532	MMBtu	198,249	0.62%	
	Kerosene	93,957	MMBtu	7,113	0.02%	
	Natural Gas	37,488,768	MMBtu	1,993,776	6.19%	
	F	Residential Energy 1	Total	6,737,838	20.93%	
	Electricity	13,333,284,169	kWh	4,088,634	12.70%	
	Distillate Fuel Oil					
	No. 2	3,549,084	MMBtu	264,242	0.82%	
Commercial	Propane	5,978,384	MMBtu	371,012	1.15%	
Energy	Natural Gas	30,533,424	MMBtu	1,623,868	5.04%	
	Kerosene	48,618	MMBtu	3,681	0.01%	
	Other Commercial Fuels	_	_	4,940	0.02%	
		Commercial Energy Total			19.74%	
	Electricity	1,862,600,409	kWh	6,356,377 571,164	1.77%	
	Natural Gas	26,745,309	MMBtu	469,167	1.46%	
	LPG	16,587	MMBtu	1,023	0.00%	
Industrial Energy	Distillate Fuel Oil No. 2	296,934	Gallons	17,772	0.06%	
	Other Industrial			,		
	Fuels	-	-	81,025	0.25%	
	Industrial Energy Total			1,140,151	3.54%	
	Gasoline	24,002,996,939	Vehicle Miles Traveled (VMT)	10,455,598	32.47%	
On Road Transportation	Diesel	2,197,349,539	Vehicle Miles Traveled (VMT)	3,123,678	9.70%	
	CNG	23,351,041	Vehicle Miles Traveled (VMT)	2,364	0.01%	
	Ethanol	42,270,949	Vehicle Miles Traveled (VMT)	3,649	0.01%	

APPENDIX A: Regional Greenhouse Gas Inventory and Reduction Projections

			Vehicle Miles		
	Electricity	164,673,988	Traveled (VMT)	81,049	0.25%
Rail					
Transportation	Diesel	651,438	MMBTU	48,603	0.15%
Waterborne	Gasoline	538,605	MMBTU	38,781	0.12%
Transportation	Diesel	141,989	MMBTU	10,508	0.03%
	Gasoline	4,601,077	MMBTU	330,478	1.03%
Off Road	Diesel	6,125,066	MMBTU	453,254	1.41%
Transportation &	CNG	164,348	MMBTU	10,364	0.03%
Mobile Sources	LPG	1,504,860	MMBTU	92,677	0.29%
	Transportation & Mobile Sources Total			14,651,004	45.50%
	Waste Generation Landfill Gas	1,172,453	Tons	484,613	1.51%
	Flaring	446,259	MMBTU	5,494	0.02%
Solid Waste	Solid Waste Incineration	6,619,110	MMBTU	229,478	0.71%
	Closed Landfills	-	-	99,087	0.31%
	Solid Waste Total (does not include Closed Landfills)			719,585	2.23%
Water and Wastewater	Wastewater Treatment	-	-	325,157	1.01%
wastewater	Wa	ter and Wastewate	er Total	 453,254 10,364 92,677 14,651,004 484,613 5,494 229,478 99,087 325,157 325,157 325,157 157,051 157,051 3,290 1,876,474 2,036,816 149,135 82,009 -1,452,350 	1.01%
	Fugitive Emissions from Natural Gas Distribution	85,056,325	MMBTU	157,051	0.49%
Process & Fugitive Emissions	Oil and Gas Production and Processing	-	-	3,290	0.01%
	Industrial Process & Product Use	-	-	1,876,474	5.83%
	Process & Fugitive Emissions Total			2,036,816	6.33%
Agriculture, Forestry, and other Land Uses	Livestock	-	-	149,135	0.46%
	Crops	-	-	82,009	0.25%
	Land/Forestry	-	-	-1,452,350	-
(AFOLU)	AFOLU Total (does not include Land/Forestry)			231,144	0.72%
Total 2021 Regional Emissions				32,198,072	

	TABLE 3: BAU Emissions, Net Reductions per Action, & Remaining Emissions after Implementation (MT CO2e)		
	2025	2030	2050
Business As Usual Emissions	28,128,384	25,503,512	23,719,593
Action	Action Net Reductions		
VMT Reduction - 25% by 2050 - Gasoline	105,691	579,093	1,745,018
VMT Reduction - 25% by 2050 - Diesel	33,955	203,733	882,845
Advanced Clean Cars II	199,881	1,170,684	4,662,100
Advanced Clean Trucks	93,525	635,066	2,354,686
Clean Power Standard	0	0	3,228,167
Residential Energy Codes and Standards	23,749	142,494	474,983
Commercial Energy Codes and Standards	19,141	114,849	382,828
Residential Building Energy Performance Standards	92,472	618,272	2,308,824
Commercial Building Energy Performance Standards	65,683	450,911	1,725,072
Waste diversion	35,705	214,229	214,228
Remaining Emissions after Implementation	27,458,582	21,374,181	5,740,842
Percent Change (%) from 2021 Baseline	-14.72%	-33.62%	-82.17%

	TABLE 4: GHG Reduction Projections (MT CO2e) and Percent Change from Baseline			
	2021 Baseline	2025	2030	2050
Industrial Energy	1,140,151	805,315 (-29.37%)	631,097 (-44.65%)	469,160 (-58.85%)
Residential Energy	6,737,838	4,886,770 (-27.47%)	3,391,856 (-49.66%)	333,476 (-95.05%)
Commercial Energy	6,356,375	4,594,802 (-27.71%)	3,232,077 (-49.15%)	477,562 (-92.49%)
Transportation & Mobile Sources	14,651,004	13,854,053 (-5.44%)	10,953,762 (-25.24%)	1,205,312 (-91.77%)
Water & Wastewater	325,157	336,154 (3.38%)	343,262 (5.57%)	367,597 (13.05%)
AFOLU	231,144	231,144 (0%)	231,144 (0.00%)	231,144 (0.00%)
Process & Fugitive Emissions	2,036,816	2042127 (0.26%)	2,045,560 (0.43%)	2,057,314 (1.01%)
Solid Waste	719,585	708217 (-1.58%)	545,423 (-24.20%)	599,277 (-16.72%)