Attachment 5

PEV GHG Reductions (metric tons CO2e/day)

CA-Tahoe	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Residents	0.61	0.77	0.95	1.15	1.35	1.56	1.78	1.99	2.20	2.41	2.58	2.73	2.88	3.01	3.14	3.26	3.37	3.47	3.57	3.66	3.75
Overnight & Day Visitors	1.38	1.79	2.18	2.56	2.92	3.25	3.60	3.95	4.31	4.70	4.96	5.09	5.23	5.39	5.55	5.73	5.77	5.83	5.90	5.99	6.10
Thru Visitors	0.02	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10
Total	2.01	2.59	3.17	3.75	4.32	4.87	5.44	6.01	6.59	7.19	7.62	7.91	8.20	8.49	8.78	9.09	9.24	9.40	9.57	9.76	9.95
Total excluding thru	*1.99*	*2.56*	*3.14*	*3.71*	*4.27*	*4.82*	*5.38*	*5.94*	*6.52*	*7.11*	*7.53*	*7.82*	*8.11*	*8.40*	*8.69*	*8.99*	*9.14*	*9.30*	*9.47*	*9.65*	*9.85*

NV-Tahoe	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Residents	0.25	0.31	0.37	0.44	0.51	0.58	0.64	0.70	0.75	0.80	0.84	0.88	0.92	0.95	0.98	1.01	1.03	1.06	1.08	1.10	1.13
Overnight & Day Visitors	0.39	0.50	0.59	0.67	0.73	0.77	0.78	0.79	0.79	0.78	0.77	0.74	0.71	0.68	0.66	0.64	0.61	0.59	0.58	0.58	0.58
Thru Visitors	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	0.64	0.81	0.97	1.12	1.25	1.37	1.44	1.50	1.56	1.60	1.63	1.63	1.64	1.64	1.65	1.66	1.65	1.66	1.67	1.69	1.71
Total excluding thru	*0.64*	*0.81*	*0.96*	*1.11*	*1.24*	*1.35*	*1.43*	*1.49*	*1.54*	*1.58*	*1.61*	*1.62*	*1.63*	*1.63*	*1.64*	*1.65*	*1.64*	*1.65*	*1.66*	*1.68*	*1.70*

Truckee CA	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Residents	0.48	0.61	0.75	0.89	1.05	1.21	1.37	1.53	1.68	1.83	1.94	2.04	2.13	2.22	2.29	2.36	2.43	2.48	2.53	2.58	2.63
Visitors	0.22	0.29	0.35	0.42	0.48	0.54	0.60	0.67	0.73	0.81	0.86	0.89	0.92	0.95	0.99	1.03	1.05	1.08	1.11	1.14	1.18
Total	0.70	0.89	1.10	1.31	1.53	1.75	1.97	2.20	2.42	2.63	2.80	2.93	3.05	3.17	3.28	3.39	3.48	3.56	3.64	3.72	3.80

Total_All	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Resident PEVs	1.33	1.69	2.07	2.48	2.91	3.36	3.80	4.23	4.64	5.04	5.36	5.66	5.93	6.18	6.42	6.63	6.83	7.01	7.19	7.35	7.50
Visitor PEV Trips	2.02	2.61	3.17	3.70	4.19	4.63	5.06	5.48	5.92	6.37	6.68	6.81	6.96	7.12	7.30	7.50	7.54	7.60	7.70	7.82	7.97
Total GHG Reductions	3.35	4.30	5.25	6.18	7.10	7.99	8.86	9.71	10.56	11.41	12.04	12.47	12.89	13.30	13.72	14.13	14.37	14.62	14.88	15.17	15.47

CA-TAHOE RESIDENTS

Res BEV	vehicles	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		28	42	58	76	97	117	139	160	181	203	224	244	264	283	301	318	333	347	360	372	383
Med		48	72	100	131	166	202	239	276	313	349	386	421	455	488	519	548	574	599	621	642	660
High		58	87	122	161	205	250	298	350	404	462	523	586	651	718	787	857	927	999	1,072	1,146	1,222

Res PHEV	vehicles	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		92	120	153	190	231	276	323	370	416	462	507	552	594	635	674	711	745	777	806	833	858
Med		156	206	262	326	397	475	555	636	716	796	874	951	1,024	1,095	1,162	1,225	1,284	1,339	1,389	1,436	1,479
High		181	243	313	393	482	581	687	800	921	1,048	1,181	1,320	1,464	1,612	1,765	1,921	2,081	2,244	2,410	2,579	2,752

EMFAC 2014 Fuel Economy	MPG	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LD Auto Gas		28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3

MED SCENARIO																						
(BAU, EMFAC/ZEV)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.67	0.96	1.29	1.65	2.03	2.40	2.75	3.10	3.44	3.76	4.08	4.37	4.66	4.92	5.17	5.40	5.61	5.80	5.98	6.15	6.30
Baseline PHEV Gas		0.86	1.10	1.36	1.64	1.94	2.25	2.56	2.86	3.15	3.43	3.70	3.95	4.19	4.42	4.63	4.83	5.02	5.19	5.35	5.50	5.65
Baseline Gas Emissions		*1.53*	*2.06*	*2.65*	*3.29*	*3.97*	*4.65*	*5.32*	*5.97*	*6.59*	*7.20*	*7.77*	*8.33*	*8.85*	*9.34*	*9.80*	*10.23*	*10.63*	*11.00*	*11.34*	*11.65*	*11.95*
BEV emissions		0.20	0.29	0.39	0.50	0.62	0.73	0.84	0.94	1.04	1.12	1.24	1.35	1.46	1.57	1.66	1.76	1.84	1.92	1.99	2.06	2.12
PHEV_elec		0.25	0.33	0.41	0.49	0.59	0.69	0.78	0.87	0.95	1.02	1.12	1.22	1.31	1.40	1.49	1.57	1.65	1.72	1.78	1.84	1.90
PEV Emissions		*0.45*	*0.61*	*0.79*	*0.99*	*1.21*	*1.42*	*1.62*	*1.81*	*1.98*	*2.14*	*2.36*	*2.57*	*2.77*	*2.97*	*3.15*	*3.33*	*3.49*	*3.64*	*3.77*	*3.90*	*4.01*
PEV Emissions Reduction		**1.08**	**1.45**	**1.86**	**2.30**	**2.76**	**3.23**	**3.69**	**4.15**	**4.61**	**5.05**	**5.42**	**5.76**	**6.07**	**6.37**	**6.65**	**6.90**	**7.14**	**7.36**	**7.56**	**7.76**	**7.94**

MED+ SCENARIO																						
(30% boost to ZEVs)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.67	0.96	1.29	1.65	2.03	2.40	2.75	3.10	3.44	3.76	4.08	4.37	4.66	4.92	5.17	5.40	5.61	5.80	5.98	6.15	6.30
Baseline PHEV Gas		1.72	2.20	2.72	3.28	3.88	4.51	5.13	5.73	6.31	6.86	7.39	7.90	8.38	8.83	9.26	9.66	10.03	10.38	10.71	11.01	11.29
Baseline Gas Emissions		2.39	3.16	4.01	4.93	5.91	6.90	7.88	8.83	9.75	10.63	11.47	12.28	13.04	13.76	14.43	15.06	15.64	16.19	16.69	17.16	17.60
BEV emissions		0.20	0.29	0.39	0.50	0.62	0.73	0.84	0.94	1.04	1.12	1.24	1.35	1.46	1.57	1.66	1.76	1.84	1.92	1.99	2.06	2.12
PHEV_elec		0.51	0.65	0.81	0.99	1.18	1.38	1.57	1.74	1.90	2.04	2.24	2.44	2.63	2.81	2.98	3.14	3.29	3.43	3.56	3.68	3.79
PEV Emissions		0.70	0.94	1.20	1.49	1.80	2.11	2.41	2.68	2.93	3.16	3.48	3.79	4.09	4.37	4.65	4.90	5.14	5.36	5.56	5.74	5.91
PEV Emissions Reduction		**1.69**	**2.22**	**2.81**	**3.44**	**4.11**	**4.79**	**5.48**	**6.15**	**6.81**	**7.46**	**7.99**	**8.49**	**8.95**	**9.38**	**9.79**	**10.16**	**10.51**	**10.83**	**11.13**	**11.42**	**11.69**

EMISSIONS REDUCTIONS	**Mtons CO2e/day**	**0.61**	**0.77**	**0.95**	**1.15**	**1.35**	**1.56**	**1.78**	**1.99**	**2.20**	**2.41**	**2.58**	**2.73**	**2.88**	**3.01**	**3.14**	**3.26**	**3.37**	**3.47**	**3.57**	**3.66**	**3.75**

Cells I19 and I20 - this is the amount of tons of CO2 these cars would produce if they were gas

CA-TAHOE VISITORS

Overnight and Day Visitors

Vis BEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		156	228	302	378	454	532	606	683	761	842	925	987	1,051	1,117	1,185	1,256	1,296	1,338	1,382	1,429	1,479
Med		283	415	551	691	832	976	1,112	1,251	1,394	1,541	1,692	1,802	1,916	2,034	2,155	2,281	2,349	2,419	2,493	2,570	2,652
High		367	539	716	898	1,082	1,269	1,446	1,627	1,813	2,003	2,199	2,343	2,491	2,644	2,802	2,966	3,053	3,144	3,240	3,341	3,448

Vis PHEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		566	748	936	1,128	1,323	1,522	1,720	1,923	2,131	2,342	2,558	2,712	2,869	3,029	3,193	3,360	3,439	3,519	3,601	3,684	3,770
Med		808	1,069	1,337	1,611	1,890	2,174	2,458	2,748	3,044	3,346	3,655	3,874	4,098	4,327	4,561	4,800	4,913	5,027	5,144	5,263	5,385
High		1,051	1,390	1,738	2,094	2,457	2,826	3,195	3,572	3,957	4,350	4,751	5,036	5,328	5,625	5,929	6,240	6,386	6,535	6,687	6,842	7,001

Fuel Economy	MPG	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LDA GAS (TMPO)		28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3

MED SCENARIO																						
(BAU, EMFAC/ZEV)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		2.34	3.33	4.29	5.22	6.11	6.95	7.71	8.46	9.22	9.98	10.74	11.25	11.77	12.32	12.90	13.51	13.78	14.09	14.43	14.80	15.21
Baseline PHEV Gas		2.68	3.43	4.16	4.87	5.55	6.19	6.82	7.43	8.05	8.67	9.29	9.67	10.07	10.49	10.92	11.37	11.53	11.71	11.91	12.12	12.35
Baseline Gas Emissions		*5.01*	*6.76*	*8.45*	*10.09*	*11.65*	*13.15*	*14.53*	*15.90*	*17.27*	*18.64*	*20.03*	*20.92*	*21.85*	*22.81*	*23.82*	*24.88*	*25.31*	*25.80*	*26.33*	*26.92*	*27.56*
BEV emissions		0.69	0.99	1.28	1.58	1.86	2.13	2.35	2.57	2.77	2.97	3.26	3.47	3.69	3.92	4.15	4.40	4.53	4.66	4.80	4.95	5.11
PHEV_elec		*0.27*	*0.39*	*0.51*	*0.63*	*0.74*	*0.85*	*0.94*	*1.03*	*1.11*	*1.19*	*1.30*	*1.39*	*1.48*	*1.57*	*1.66*	*1.76*	*1.81*	*1.86*	*1.92*	*1.98*	*2.04*
PEV Emissions		*0.96*	*1.38*	*1.80*	*2.21*	*2.60*	*2.98*	*3.29*	*3.60*	*3.88*	*4.16*	*4.56*	*4.86*	*5.17*	*5.49*	*5.81*	*6.15*	*6.34*	*6.52*	*6.72*	*6.93*	*7.15*
PEV Emissions Reduction		**4.05**	**5.38**	**6.65**	**7.88**	**9.05**	**10.17**	**11.23**	**12.30**	**13.38**	**14.49**	**15.47**	**16.06**	**16.68**	**17.33**	**18.01**	**18.73**	**18.98**	**19.27**	**19.61**	**19.99**	**20.41**

MED+ SCENARIO																						
(30% boost to ZEVs)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		2.34	3.33	4.29	5.22	6.11	6.95	7.71	8.46	9.22	9.98	10.74	11.25	11.77	12.32	12.90	13.51	13.78	14.09	14.43	14.80	15.21
Baseline PHEV Gas		5.35	6.86	8.33	9.74	11.09	12.39	13.63	14.87	16.10	17.33	18.57	19.35	20.15	20.98	21.84	22.74	23.06	23.42	23.82	24.25	24.71
Baseline Gas Emissions		*7.69*	*10.19*	*12.62*	*14.96*	*17.20*	*19.34*	*21.34*	*23.33*	*25.31*	*27.31*	*29.32*	*30.60*	*31.92*	*33.30*	*34.74*	*36.25*	*36.85*	*37.51*	*38.24*	*39.05*	*39.92*
BEV emissions		0.69	0.99	1.28	1.58	1.86	2.13	2.35	2.57	2.77	2.97	3.26	3.47	3.69	3.92	4.15	4.40	4.53	4.66	4.80	4.95	5.11
PHEV_elec		1.57	2.04	2.49	2.94	3.37	3.79	4.16	4.51	4.85	5.16	5.63	5.97	6.32	6.67	7.03	7.40	7.57	7.75	7.93	8.11	8.30
PEV Emissions		*2.26*	*3.02*	*3.78*	*4.51*	*5.23*	*5.92*	*6.51*	*7.08*	*7.62*	*8.13*	*8.89*	*9.44*	*10.01*	*10.59*	*11.18*	*11.79*	*12.10*	*12.41*	*12.73*	*13.06*	*13.41*
PEV Emissions Reduction		**5.43**	**7.17**	**8.84**	**10.44**	**11.97**	**13.42**	**14.83**	**16.25**	**17.69**	**19.18**	**20.42**	**21.15**	**21.91**	**22.71**	**23.56**	**24.46**	**24.75**	**25.10**	**25.51**	**25.98**	**26.51**

TRUCKEE-CA RESIDENTS

Res BEV	vehicles	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		22	32	45	59	75	91	107	123	139	154	169	183	196	209	220	230	240	248	256	262	268
Med		37	56	77	102	129	157	185	212	240	266	291	316	338	360	379	397	413	428	441	452	463
High		44	67	94	125	159	194	230	269	309	351	394	438	483	529	575	622	669	716	764	811	859

Res PHEV	vehicles	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		73	95	120	149	180	215	249	284	318	351	383	413	441	468	493	516	536	555	572	587	601
Med		123	162	205	255	309	368	428	488	547	604	659	711	760	806	849	888	924	957	986	1,012	1,036
High		141	190	245	307	375	450	529	614	702	793	888	986	1,086	1,188	1,291	1,396	1,502	1,609	1,717	1,826	1,935

EMFAC 2014 Fuel Economy	MPG	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LD Auto Gas		28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3

MED SCENARIO																						
(BAU, EMFAC/ZEV)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.51	0.74	1.00	1.28	1.57	1.86	2.13	2.39	2.64	2.87	3.08	3.28	3.46	3.63	3.78	3.91	4.04	4.15	4.25	4.33	4.42
Baseline PHEV Gas		0.68	0.86	1.06	1.28	1.51	1.75	1.98	2.20	2.41	2.60	2.79	2.95	3.11	3.25	3.38	3.50	3.61	3.71	3.80	3.88	3.95
Baseline Gas Emissions		*1.19*	*1.61*	*2.07*	*2.56*	*3.08*	*3.60*	*4.11*	*4.59*	*5.04*	*5.47*	*5.87*	*6.23*	*6.57*	*6.88*	*7.16*	*7.42*	*7.65*	*7.86*	*8.04*	*8.22*	*8.37*
BEV emissions		0.15	0.22	0.30	0.39	0.48	0.57	0.65	0.73	0.79	0.85	0.93	1.01	1.09	1.15	1.22	1.27	1.33	1.37	1.41	1.45	1.48
PHEV_elec		0.20	0.26	0.32	0.39	0.46	0.53	0.60	0.67	0.72	0.77	0.85	0.91	0.98	1.03	1.09	1.14	1.19	1.23	1.26	1.30	1.33
PEV Emissions		*0.35*	*0.48*	*0.62*	*0.77*	*0.94*	*1.10*	*1.25*	*1.39*	*1.52*	*1.63*	*1.78*	*1.92*	*2.06*	*2.19*	*2.31*	*2.41*	*2.51*	*2.60*	*2.68*	*2.75*	*2.81*
PEV Emissions Reduction		**0.84**	**1.13**	**1.45**	**1.79**	**2.15**	**2.50**	**2.85**	**3.20**	**3.53**	**3.84**	**4.09**	**4.31**	**4.51**	**4.69**	**4.86**	**5.00**	**5.14**	**5.26**	**5.37**	**5.47**	**5.56**

MED+ SCENARIO																						
(30% boost to ZEVs)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.51	0.74	1.00	1.28	1.57	1.86	2.13	2.39	2.64	2.87	3.08	3.28	3.46	3.63	3.78	3.91	4.04	4.15	4.25	4.33	4.42
Baseline PHEV Gas		1.35	1.73	2.13	2.56	3.02	3.49	3.95	4.40	4.81	5.21	5.57	5.91	6.22	6.51	6.77	7.01	7.22	7.42	7.60	7.76	7.91
Baseline Gas Emissions		1.87	2.47	3.13	3.84	4.59	5.35	6.08	6.79	7.45	8.07	8.65	9.19	9.68	10.13	10.55	10.92	11.26	11.57	11.84	12.10	12.33
BEV emissions		0.15	0.22	0.30	0.39	0.48	0.57	0.65	0.73	0.79	0.85	0.93	1.01	1.09	1.15	1.22	1.27	1.33	1.37	1.41	1.45	1.48
PHEV_elec		0.40	0.51	0.64	0.77	0.92	1.07	1.21	1.33	1.45	1.55	1.69	1.82	1.95	2.07	2.18	2.28	2.37	2.45	2.53	2.60	2.66
PEV Emissions		0.55	0.73	0.94	1.16	1.40	1.64	1.86	2.06	2.24	2.40	2.62	2.84	3.04	3.22	3.39	3.55	3.70	3.83	3.94	4.05	4.14
PEV Emissions Reduction		**1.32**	**1.74**	**2.19**	**2.68**	**3.20**	**3.71**	**4.23**	**4.73**	**5.21**	**5.67**	**6.03**	**6.35**	**6.65**	**6.91**	**7.15**	**7.37**	**7.56**	**7.74**	**7.90**	**8.05**	**8.18**

EMISSIONS REDUCTIONS	**Mtons CO2e/day**	**0.48**	**0.61**	**0.75**	**0.89**	**1.05**	**1.21**	**1.37**	**1.53**	**1.68**	**1.83**	**1.94**	**2.04**	**2.13**	**2.22**	**2.29**	**2.36**	**2.43**	**2.48**	**2.53**	**2.58**	**2.63**

TRUCKEE-CA VISITORS

Vis BEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		25	36	49	61	75	88	101	115	129	144	160	172	184	197	211	225	236	247	259	272	285
Med		45	66	89	112	137	162	186	211	237	264	292	314	336	360	384	409	427	447	467	489	511
High		58	86	115	146	178	210	242	274	308	344	380	408	437	467	499	532	556	581	607	635	665

Vis PHEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		89	119	151	183	217	252	288	324	362	402	442	472	503	536	568	602	626	650	675	700	727
Med		127	170	215	262	310	360	411	463	518	574	632	675	719	765	812	861	894	929	964	1,001	1,038
High		166	222	280	341	403	468	534	602	673	746	821	877	935	995	1,056	1,119	1,162	1,207	1,253	1,301	1,350

Fuel Economy	MPG	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LDA GAS (TMPO)		28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3

MED SCENARIO

(BAU, EMFAC/ZEV)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.37	0.53	0.69	0.85	1.00	1.15	1.29	1.43	1.57	1.71	1.86	1.96	2.07	2.18	2.30	2.42	2.51	2.60	2.70	2.81	2.93
Baseline PHEV Gas		0.42	0.55	0.67	0.79	0.91	1.03	1.14	1.25	1.37	1.49	1.60	1.68	1.77	1.85	1.94	2.04	2.10	2.16	2.23	2.30	2.38
Baseline Gas Emissions		*0.79*	*1.08*	*1.36*	*1.64*	*1.91*	*2.18*	*2.43*	*2.68*	*2.94*	*3.20*	*3.46*	*3.64*	*3.83*	*4.03*	*4.24*	*4.46*	*4.61*	*4.77*	*4.94*	*5.12*	*5.31*
BEV emissions		0.11	0.16	0.21	0.26	0.30	0.35	0.39	0.43	0.47	0.51	0.56	0.60	0.65	0.69	0.74	0.79	0.82	0.86	0.90	0.94	0.99
PHEV_elec		*0.04*	*0.06*	*0.08*	*0.10*	*0.12*	*0.14*	*0.16*	*0.17*	*0.19*	*0.20*	*0.23*	*0.24*	*0.26*	*0.28*	*0.30*	*0.32*	*0.33*	*0.34*	*0.36*	*0.38*	*0.39*
PEV Emissions		*0.15*	*0.22*	*0.29*	*0.36*	*0.43*	*0.49*	*0.55*	*0.61*	*0.66*	*0.71*	*0.79*	*0.85*	*0.91*	*0.97*	*1.04*	*1.10*	*1.15*	*1.21*	*1.26*	*1.32*	*1.38*
PEV Emissions Reduction		**0.64**	**0.86**	**1.07**	**1.28**	**1.49**	**1.68**	**1.88**	**2.07**	**2.28**	**2.48**	**2.67**	**2.80**	**2.93**	**3.06**	**3.21**	**3.36**	**3.45**	**3.56**	**3.68**	**3.80**	**3.94**

MED+ SCENARIO

(30% boost to ZEVs)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.37	0.53	0.69	0.85	1.00	1.15	1.29	1.43	1.57	1.71	1.86	1.96	2.07	2.18	2.30	2.42	2.51	2.60	2.70	2.81	2.93
Baseline PHEV Gas		0.84	1.09	1.34	1.58	1.82	2.05	2.28	2.51	2.74	2.97	3.21	3.37	3.54	3.71	3.89	4.08	4.20	4.33	4.46	4.61	4.76
Baseline Gas Emissions		*1.21*	*1.62*	*2.03*	*2.43*	*2.82*	*3.20*	*3.57*	*3.93*	*4.31*	*4.68*	*5.07*	*5.33*	*5.60*	*5.89*	*6.19*	*6.50*	*6.71*	*6.93*	*7.17*	*7.42*	*7.70*
BEV emissions		0.11	0.16	0.21	0.26	0.30	0.35	0.39	0.43	0.47	0.51	0.56	0.60	0.65	0.69	0.74	0.79	0.82	0.86	0.90	0.94	0.99
PHEV_elec		0.25	0.32	0.40	0.48	0.55	0.63	0.70	0.76	0.82	0.88	0.97	1.04	1.11	1.18	1.25	1.33	1.38	1.43	1.49	1.54	1.60
PEV Emissions		*0.36*	*0.48*	*0.61*	*0.73*	*0.86*	*0.98*	*1.09*	*1.19*	*1.30*	*1.39*	*1.54*	*1.65*	*1.76*	*1.87*	*1.99*	*2.11*	*2.20*	*2.29*	*2.39*	*2.48*	*2.59*
PEV Emissions Reduction		**0.86**	**1.14**	**1.42**	**1.70**	**1.97**	**2.22**	**2.48**	**2.74**	**3.01**	**3.29**	**3.53**	**3.68**	**3.85**	**4.02**	**4.19**	**4.38**	**4.50**	**4.64**	**4.78**	**4.94**	**5.11**

NV-TAHOE RESIDENTS

Res BEV	vehicles	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		14	21	29	38	48	59	69	80	91	101	112	122	132	142	151	159	167	174	180	186	192
Med		24	36	50	66	83	101	119	138	156	175	193	211	228	244	259	274	287	299	311	321	330
High		29	44	61	81	102	125	149	175	202	231	261	293	326	359	393	428	464	500	536	573	611

Res PHEV	vehicles	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		46	60	77	95	116	138	161	185	208	231	254	276	297	318	337	355	372	388	403	416	429
Med		78	103	131	163	198	238	278	318	358	398	437	475	512	547	581	613	642	669	695	718	739
High		90	121	157	197	241	290	343	400	460	524	591	660	732	806	882	961	1,040	1,122	1,205	1,290	1,376

EMFAC 2014 Fuel Economy	MPG	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LD Auto Gas		28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3

MED SCENARIO

(BAU, EMFAC/ZEV)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.33	0.48	0.65	0.83	1.01	1.20	1.38	1.55	1.72	1.88	2.04	2.19	2.33	2.46	2.58	2.70	2.81	2.90	2.99	3.08	3.15
Baseline PHEV Gas		0.43	0.55	0.68	0.82	0.97	1.13	1.28	1.43	1.58	1.72	1.85	1.98	2.10	2.21	2.32	2.42	2.51	2.60	2.68	2.75	2.82
Baseline Gas Emissions		*0.76*	*1.03*	*1.33*	*1.65*	*1.98*	*2.32*	*2.66*	*2.98*	*3.30*	*3.60*	*3.89*	*4.16*	*4.42*	*4.67*	*4.90*	*5.11*	*5.31*	*5.50*	*5.67*	*5.83*	*5.98*
BEV emissions		0.14	0.21	0.29	0.38	0.48	0.58	0.68	0.79	0.90	1.00	1.11	1.21	1.31	1.40	1.49	1.57	1.65	1.72	1.78	1.84	1.90
PHEV_elec		0.18	0.24	0.31	0.38	0.46	0.55	0.64	0.73	0.82	0.91	1.00	1.09	1.18	1.26	1.33	1.41	1.47	1.54	1.59	1.65	1.70
PEV Emissions		*0.33*	*0.45*	*0.60*	*0.76*	*0.94*	*1.13*	*1.32*	*1.52*	*1.72*	*1.92*	*2.11*	*2.30*	*2.48*	*2.66*	*2.82*	*2.98*	*3.12*	*3.26*	*3.38*	*3.49*	*3.59*
PEV Emissions Reduction		**0.44**	**0.58**	**0.73**	**0.89**	**1.05**	**1.20**	**1.34**	**1.46**	**1.58**	**1.68**	**1.78**	**1.86**	**1.94**	**2.01**	**2.08**	**2.14**	**2.19**	**2.24**	**2.29**	**2.34**	**2.38**

MED+ SCENARIO

(30% boost to ZEVs)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.33	0.48	0.65	0.83	1.01	1.20	1.38	1.55	1.72	1.88	2.04	2.19	2.33	2.46	2.58	2.70	2.81	2.90	2.99	3.08	3.15
Baseline PHEV Gas		0.86	1.10	1.36	1.64	1.94	2.25	2.56	2.86	3.15	3.43	3.70	3.95	4.19	4.42	4.63	4.83	5.02	5.19	5.35	5.50	5.65
Baseline Gas Emissions		1.19	1.58	2.01	2.47	2.95	3.45	3.94	4.41	4.87	5.31	5.74	6.14	6.52	6.88	7.22	7.53	7.82	8.09	8.35	8.58	8.80
BEV emissions		0.14	0.21	0.29	0.38	0.48	0.58	0.68	0.79	0.90	1.00	1.11	1.21	1.31	1.40	1.49	1.57	1.65	1.72	1.78	1.84	1.90
PHEV_elec		0.37	0.48	0.61	0.76	0.92	1.09	1.28	1.46	1.64	1.83	2.01	2.18	2.35	2.51	2.67	2.81	2.95	3.07	3.19	3.30	3.39
PEV Emissions		0.51	0.70	0.90	1.14	1.40	1.67	1.96	2.25	2.54	2.83	3.11	3.39	3.66	3.91	4.16	4.38	4.60	4.79	4.97	5.14	5.29
PEV Emissions Reduction		**0.68**	**0.89**	**1.10**	**1.33**	**1.56**	**1.78**	**1.98**	**2.16**	**2.33**	**2.48**	**2.62**	**2.75**	**2.86**	**2.96**	**3.06**	**3.15**	**3.23**	**3.30**	**3.37**	**3.44**	**3.51**
EMISSIONS REDUCTIONS	**Mtons CO2e/day**	**0.25**	**0.31**	**0.37**	**0.44**	**0.51**	**0.58**	**0.64**	**0.70**	**0.75**	**0.80**	**0.84**	**0.88**	**0.92**	**0.95**	**0.98**	**1.01**	**1.03**	**1.06**	**1.08**	**1.10**	**1.13**

NV-TAHOE VISITORS

Overnight and Day Visitors

Vis BEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		78	114	151	189	227	266	303	341	381	421	463	493	525	558	593	628	648	669	691	715	740
Med		141	207	275	345	416	488	556	626	697	770	846	901	958	1,017	1,078	1,141	1,174	1,209	1,246	1,285	1,326
High		184	269	358	449	541	635	723	813	906	1,002	1,100	1,171	1,245	1,322	1,401	1,483	1,527	1,572	1,620	1,671	1,724

Vis PHEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		283	374	468	564	661	761	860	962	1,065	1,171	1,279	1,356	1,434	1,515	1,596	1,680	1,719	1,760	1,800	1,842	1,885
Med		404	535	668	805	945	1,087	1,229	1,374	1,522	1,673	1,827	1,937	2,049	2,164	2,281	2,400	2,456	2,514	2,572	2,632	2,693
High		525	695	869	1,047	1,228	1,413	1,598	1,786	1,978	2,175	2,375	2,518	2,664	2,813	2,965	3,120	3,193	3,268	3,344	3,421	3,500

Fuel Economy	MPG	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LDA GAS (TMPO)		28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3

MED SCENARIO

(BAU, EMFAC/ZEV)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		1.17	1.66	2.14	2.61	3.05	3.48	3.85	4.23	4.61	4.99	5.37	5.62	5.89	6.16	6.45	6.75	6.89	7.04	7.21	7.40	7.61
Baseline PHEV Gas		1.34	1.72	2.08	2.43	2.77	3.10	3.41	3.72	4.02	4.33	4.64	4.84	5.04	5.24	5.46	5.69	5.77	5.86	5.95	6.06	6.18
Baseline Gas Emissions		*2.51*	*3.38*	*4.23*	*5.05*	*5.83*	*6.57*	*7.26*	*7.95*	*8.63*	*9.32*	*10.01*	*10.46*	*10.92*	*11.41*	*11.91*	*12.44*	*12.66*	*12.90*	*13.17*	*13.46*	*13.78*
BEV emissions		0.50	0.73	0.97	1.21	1.44	1.68	1.92	2.16	2.40	2.66	2.92	3.11	3.30	3.51	3.72	3.93	4.05	4.17	4.30	4.43	4.57
PHEV_elec		*0.20*	*0.29*	*0.39*	*0.48*	*0.58*	*0.67*	*0.77*	*0.86*	*0.96*	*1.06*	*1.17*	*1.24*	*1.32*	*1.40*	*1.49*	*1.57*	*1.62*	*1.67*	*1.72*	*1.77*	*1.83*
PEV Emissions		*0.70*	*1.02*	*1.35*	*1.69*	*2.02*	*2.36*	*2.68*	*3.02*	*3.37*	*3.72*	*4.08*	*4.35*	*4.62*	*4.91*	*5.20*	*5.51*	*5.67*	*5.84*	*6.02*	*6.20*	*6.40*
PEV Emissions Reduction		**1.80**	**2.35**	**2.87**	**3.36**	**3.80**	**4.22**	**4.58**	**4.93**	**5.27**	**5.60**	**5.93**	**6.11**	**6.30**	**6.50**	**6.71**	**6.93**	**6.99**	**7.06**	**7.15**	**7.26**	**7.38**

MED+ SCENARIO

(30% boost to ZEVs)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		1.17	1.66	2.14	2.61	3.05	3.48	3.85	4.23	4.61	4.99	5.37	5.62	5.89	6.16	6.45	6.75	6.89	7.04	7.21	7.40	7.61
Baseline PHEV Gas		2.68	3.43	4.16	4.87	5.55	6.19	6.82	7.43	8.05	8.67	9.29	9.67	10.07	10.49	10.92	11.37	11.53	11.71	11.91	12.12	12.35
Baseline Gas Emissions		*3.85*	*5.09*	*6.31*	*7.48*	*8.60*	*9.67*	*10.67*	*11.66*	*12.66*	*13.65*	*14.66*	*15.30*	*15.96*	*16.65*	*17.37*	*18.13*	*18.42*	*18.75*	*19.12*	*19.52*	*19.96*
BEV emissions		0.50	0.73	0.97	1.21	1.44	1.68	1.92	2.16	2.40	2.66	2.92	3.11	3.30	3.51	3.72	3.93	4.05	4.17	4.30	4.43	4.57
PHEV_elec		1.15	1.51	1.88	2.25	2.62	3.00	3.39	3.79	4.20	4.61	5.04	5.34	5.65	5.97	6.29	6.62	6.78	6.93	7.09	7.26	7.43
PEV Emissions		*1.65*	*2.24*	*2.84*	*3.45*	*4.07*	*4.68*	*5.31*	*5.95*	*6.60*	*7.27*	*7.96*	*8.45*	*8.96*	*9.47*	*10.01*	*10.55*	*10.82*	*11.10*	*11.39*	*11.69*	*12.00*
PEV Emissions Reduction		**2.19**	**2.85**	**3.46**	**4.03**	**4.53**	**4.99**	**5.36**	**5.72**	**6.06**	**6.38**	**6.70**	**6.85**	**7.00**	**7.18**	**7.36**	**7.57**	**7.60**	**7.65**	**7.73**	**7.83**	**7.96**

EMISSIONS REDUCTIONS	**Mtons CO2e/day**	**0.39**	**0.50**	**0.59**	**0.67**	**0.73**	**0.77**	**0.78**	**0.79**	**0.79**	**0.78**	**0.77**	**0.74**	**0.71**	**0.68**	**0.66**	**0.64**	**0.61**	**0.59**	**0.58**	**0.58**	**0.58**

Thru Visitors

Vis BEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		1	2	3	3	4	5	5	6	6	7	8	8	9	9	10	11	11	11	12	12	13
Med		2	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	21	22	23
High		3	5	6	8	9	11	12	14	15	17	19	20	21	22	24	25	26	27	28	29	30

Vis PHEV Trips	Trips/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Low		5	6	8	10	11	13	15	16	18	20	22	23	24	26	27	29	29	30	31	32	32
Med		7	9	11	14	16	19	21	23	26	28	31	33	35	37	39	41	42	43	44	45	46
High		9	12	15	18	21	24	27	30	34	37	40	43	45	48	50	53	54	56	57	59	60

Fuel Economy	MPG	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
LDA GAS (TMPO)		28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3

MED SCENARIO

(BAU, EMFAC/ZEV)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.13
Baseline PHEV Gas		0.02	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11
Baseline Gas Emissions		*0.04*	*0.06*	*0.07*	*0.09*	*0.10*	*0.11*	*0.12*	*0.14*	*0.15*	*0.16*	*0.17*	*0.18*	*0.19*	*0.19*	*0.20*	*0.21*	*0.22*	*0.22*	*0.23*	*0.23*	*0.24*
BEV emissions		0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08
PHEV_elec		*0.00*	*0.01*	*0.01*	*0.01*	*0.01*	*0.01*	*0.01*	*0.01*	*0.02*	*0.02*	*0.02*	*0.02*	*0.02*	*0.02*	*0.03*	*0.03*	*0.03*	*0.03*	*0.03*	*0.03*	*0.03*
PEV Emissions		*0.01*	*0.02*	*0.02*	*0.03*	*0.03*	*0.04*	*0.05*	*0.05*	*0.06*	*0.06*	*0.07*	*0.07*	*0.08*	*0.08*	*0.09*	*0.09*	*0.10*	*0.10*	*0.10*	*0.11*	*0.11*
PEV Emissions Reduction		**0.03**	**0.04**	**0.05**	**0.06**	**0.07**	**0.07**	**0.08**	**0.08**	**0.09**	**0.10**	**0.10**	**0.10**	**0.11**	**0.11**	**0.11**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.13**

MED+ SCENARIO

(30% boost to ZEVs)	Mtons CO2e/day	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Basline BEV GAS		0.02	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.13	0.13
Baseline PHEV Gas		0.05	0.06	0.07	0.08	0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21
Baseline Gas Emissions		*0.07*	*0.09*	*0.11*	*0.13*	*0.15*	*0.17*	*0.18*	*0.20*	*0.22*	*0.23*	*0.25*	*0.26*	*0.27*	*0.28*	*0.29*	*0.31*	*0.31*	*0.32*	*0.33*	*0.33*	*0.34*
BEV emissions		0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08
PHEV_elec		0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.09	0.10	0.10	0.11	0.11	0.12	0.12	0.12	0.12	0.13
PEV Emissions		*0.03*	*0.04*	*0.05*	*0.06*	*0.07*	*0.08*	*0.09*	*0.10*	*0.11*	*0.12*	*0.14*	*0.14*	*0.15*	*0.16*	*0.17*	*0.18*	*0.18*	*0.19*	*0.19*	*0.20*	*0.21*
PEV Emissions Reduction		**0.04**	**0.05**	**0.06**	**0.07**	**0.08**	**0.09**	**0.09**	**0.10**	**0.10**	**0.11**	**0.11**	**0.12**	**0.12**	**0.12**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.14**

EMISSIONS REDUCTIONS	**Mtons CO2e/day**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**

% reduction in average annual GHG emissions from:	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Switching from ICE to BEV	**-72%**	**-71%**	**-69%**	**-68%**	**-66%**	**-64%**	**-63%**	**-62%**	**-62%**	**-61%**	**-60%**	**-60%**	**-59%**	**-59%**	**-58%**	**-58%**	**-57%**	**-56%**	**-56%**	**-55%**	**-55%**	**-54%**	**-54%**	**-54%**	**-53%**	**-53%**
Switching from ICE to PHEV	**-29%**	**-28%**	**-28%**	**-27%**	**-26%**	**-26%**	**-25%**	**-25%**	**-25%**	**-24%**	**-24%**	**-24%**	**-24%**	**-24%**	**-23%**	**-23%**	**-23%**	**-23%**	**-22%**	**-22%**	**-22%**	**-22%**	**-22%**	**-21%**	**-21%**	**-21%**
Annual VMT	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000
LDA ICE vehicle efficiency (EMFAC)	24.5	25.2	26.0	26.9	27.8	28.6	29.5	30.4	31.4	32.3	33.3	34.2	35.0	35.8	36.6	37.3	38.0	38.6	39.1	39.6	40.0	40.4	40.7	40.9	41.1	41.3
ICE annual fuel consumption (gallons)	490	476	461	446	432	419	406	394	383	372	361	351	343	335	328	322	316	311	307	303	300	297	295	293	292	290
ICE annual fuel consumption (MJ)	56,749	55,134	53,369	51,691	50,066	48,545	47,067	45,664	44,325	43,028	41,770	40,664	39,669	38,777	37,977	37,257	36,614	36,043	35,542	35,108	34,736	34,422	34,160	33,949	33,779	33,642
ICE annual emissions (g CO2e)	5,588,087	5,429,035	5,255,294	5,090,027	4,929,966	4,780,237	4,634,641	4,496,541	4,364,648	4,236,997	4,113,075	4,004,195	3,906,203	3,818,361	3,739,616	3,668,672	3,605,390	3,549,199	3,499,853	3,457,118	3,420,430	3,389,517	3,363,783	3,342,932	3,326,186	3,312,711
BEV annual electricity consumption (kwh)	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200	4,200
BEV annual electricity consumption (MJ)	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120	15,120
BEV annual GHG emissions - Liberty (g CO2e)	1,535,587	1,535,587	1,502,879	1,470,170	1,437,461	1,404,753	1,375,566	1,346,380	1,317,194	1,288,007	1,258,821	1,222,338	1,185,856	1,149,373	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890	1,112,890
BEV annual GHG emissions -NV Energy (g CO2e)	1,590,019	1,590,019	1,705,568	1,821,118	1,936,667	2,052,216	2,040,096	2,027,975	2,015,854	2,003,733	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612	1,991,612
% reduction in emissions from ICE to BEV (Liberty Utilities)	*-73%*	*-72%*	*-71%*	*-71%*	*-71%*	*-71%*	*-70%*	*-70%*	*-70%*	*-70%*	*-69%*	*-69%*	*-70%*	*-70%*	*-70%*	*-70%*	*-69%*	*-69%*	*-68%*	*-68%*	*-67%*	*-67%*	*-67%*	*-67%*	*-67%*	*-66%*
% reduction in emissions from ICE to BEV (NV Energy)	*-72%*	*-71%*	*-68%*	*-64%*	*-61%*	*-57%*	*-56%*	*-55%*	*-54%*	*-53%*	*-52%*	*-50%*	*-49%*	*-48%*	*-47%*	*-46%*	*-45%*	*-44%*	*-43%*	*-42%*	*-42%*	*-41%*	*-41%*	*-40%*	*-40%*	*-40%*
PHEV annual electricity consumption (kwh)	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680	1,680
PHEV annual electricity consumption (MJ)	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048	6,048
PHEV annaul fuel consumption (gallons)	294	286	276	268	259	251	244	237	230	223	216	211	206	201	197	193	190	187	184	182	180	178	177	176	175	174
PHEV annual fuel consumption (MJ)	34,049	33,080	32,022	31,015	30,039	29,127	28,240	27,398	26,595	25,817	25,062	24,398	23,801	23,266	22,786	22,354	21,968	21,626	21,325	21,065	20,841	20,653	20,496	20,369	20,267	20,185
PHEV annual GHG emissions - Liberty (g CO2e)	3,967,087	3,871,656	3,754,328	3,642,084	3,532,964	3,430,043	3,331,011	3,236,477	3,145,666	3,057,401	2,971,373	2,891,452	2,818,064	2,750,765	2,688,925	2,646,359	2,608,390	2,574,676	2,545,068	2,519,427	2,497,414	2,478,866	2,463,426	2,450,915	2,440,867	2,432,783
PHEV annual GHG emissions -NV Energy (g CO2e)	3,988,860	3,893,428	3,835,404	3,782,464	3,732,647	3,689,029	3,596,823	3,509,115	3,425,130	3,343,692	3,264,490	3,199,162	3,140,367	3,087,661	3,040,414	2,997,848	2,959,879	2,926,164	2,896,556	2,870,915	2,848,903	2,830,355	2,814,915	2,802,404	2,792,356	2,784,272
% reduction in emissions from ICE to PHEV (Liberty Utilities)	*-29%*	*-29%*	*-29%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-28%*	*-27%*	*-27%*	*-27%*	*-27%*	*-27%*	*-27%*	*-27%*	*-27%*	*-27%*
% reduction in emissions from ICE to PHEV (NV Energy)	*-29%*	*-28%*	*-27%*	*-26%*	*-24%*	*-23%*	*-22%*	*-22%*	*-22%*	*-21%*	*-21%*	*-20%*	*-20%*	*-19%*	*-19%*	*-18%*	*-18%*	*-18%*	*-17%*	*-17%*	*-17%*	*-16%*	*-16%*	*-16%*	*-16%*	*-16%*

Assumptions/Constant

	Value	Unit	Source
Resident daily VMT	35	miles/day	assumes 12,000 miles per year, 347 days per year)EMFAC)
Visitor VMT per trip	21	miles/trip	TRPA Travel Demand Model_2014 - trip_length_summary 1.xls
Resident PHEV % electric miles	40%		EMFAC
Visitor PHEV % electric miles	40%		EMFAC
BEV engine efficiency	0.35	kwh/mi	LCFS, fuel economy.org
CA Reformulated Gasoline, energy density	116	MJ/gallon	LCFS
CA Reformulated Gasoline, carbon intensity	98.47	gCO2e/MJ	LCFS, well-to-wheels lifecycle factor
MJs per MWH	3,600		Standard Conversion factor
eVMT_boost	80%		Philip Sheehy, estimate of amount of PHEV use with implementation of Tahoe-Truckee PEV Infrastructure Plan

Utility-specific electricity emissions factors, gCO2e/MJ *see GREET analysis tab for data sources and assumptions*

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Liberty Utilities	101.6	101.6	101.6	99.4	97.2	95.1	92.9	91.0	89.0	87.1	85.2	83.3	80.8	78.4	76.0	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
NV Energy	139.7	105.2	105.2	112.8	120.4	128.1	135.7	134.9	134.1	133.3	132.5	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7

Source: Lake Tahoe Regional Transportation Plan/Sustainable Communities Strategy Draft EIR/EIS, page 3.5-26, Table 3.5-11.

	2020	2035
CA	925,150	1,017,955
NV	462,575	508,977
%CA	66.7%	66.7%
%NV	33.3%	33.3%

Source: TRPA Travel Demand Model_2014 - trip_length_summary 1.xls

Party Type	Tour Type	Time	Mode	Average Length (M	Average Time (Minutes)	Count	
day visitor	Total	Total	drive	28.37684517	39.53739668	52529	55%
overnight visitor	Total	Total	drive	10.50144969	16.72510513	24826	26%
seasonal	Total	Total	drive	11.18884047	17.60824296	17188	18%
thru visitor	Total	Total	drive	32.92271226	50.41443986	1696	2%
Weighted average						20.77606	miles/trip

Sources: CA-GREET 2.0 Model

Liberty Utilities power mix (NV avg) and NV Energy power mix, provided by Travis Johnson and Derek Olijar (see memo in F:\Transportation\Planning\Regional Transportation Plan\2016 RTP\Environmental Analysis\Work Products\Modeling Assumptions Docu

		Targets				Targets			
	RPS %	18%	21%	25%		25%	33%	42%	50%
		18%	21%	25%		25%	33%	42%	50%
		Nevada - NV Energy				**Liberty-CA**			
		2016	2020	2025		2016	2020	2025	2030
	Resid Oil/Fossil fuels	0.08%	0.08%	0.08%		0.08%	0.08%	0.08%	0.08%
	Natural Gas	63.79%	60.26%	56.73%		63.79%	55.79%	47.29%	38.79%
	Coal	18.19%	18.19%	18.19%		4.49%	4.49%	4.49%	4.49%
	Nuclear	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%
RPS-eligible	Biomass	0.07%	0.09%	0.11%	RPS-eligible	0.15%	0.20%	0.26%	0.31%
RPS-eligible	Hydro	6.64%	6.64%	6.64%		6.64%	6.64%	6.64%	6.64%
RPS-eligible	Geothermal	7.58%	9.95%	12.32%	RPS-eligible	16.77%	22.14%	27.84%	33.54%
RPS-eligible	Wind	0.83%	1.09%	1.35%	RPS-eligible	1.84%	2.42%	3.05%	3.67%
RPS-eligible	Solar	2.82%	3.70%	4.58%	RPS-eligible	6.24%	8.24%	10.36%	12.48%
	Other	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	0.00%
		100.00%	100.00%	100.00%		100.00%	100.00%	100.00%	100.00%
CarbonIntensity (g/MJ)		**139.74**	**135.729**	**131.72**		**101.56**	**92.91**	**83.26**	**73.60**

Assumptions:

To be conservative, we displaced natural gas with renewables to meet RPS targets (as opposed to coal or other

*"Other" assumed to be coal (per Liberty Utilities GHG memo)

CarbonIntensity is the output from the GREET model

CA and NV have to meet RPS% targets