

Table 1: Summary of equality and inequality constraints under an optimistic scenario

Date	CO_2 Inequality Constraint		Equality Constraint	
	CO_2 Lower Bound (SSP1-1.9)	CO_2 Upper Bound (SSP 1-2.6)	CH_4 (SSP 1-1.9)	N_2O (SSP 1-1.9)
2024	424.222	424.899	1875.310	334.653
2025	426.303	427.451	1866.105	335.220
2026	428.203	429.942	1854.492	335.750
2027	429.927	432.373	1840.639	336.245
2028	431.481	434.748	1824.707	336.705
2029	432.871	437.067	1806.825	337.130
2030	434.098	439.335	1787.121	337.520
2031	435.167	441.551	1765.736	337.876
2032	436.110	443.698	1743.814	338.214
2033	436.951	445.758	1722.428	338.549
2034	437.689	447.736	1701.541	338.880
2035	438.325	449.632	1681.141	339.209
2036	438.855	451.450	1661.179	339.534
2037	439.284	453.190	1641.634	339.857
2038	439.608	454.855	1622.478	340.177
2039	439.830	456.446	1603.680	340.495
2040	439.950	457.962	1585.221	340.809
2041	439.968	459.408	1567.070	341.122
2042	439.910	460.779	1549.307	341.429
2043	439.798	462.074	1531.982	341.731
2044	439.631	463.295	1515.075	342.026
2045	439.406	464.441	1498.566	342.315
2046	439.123	465.512	1482.415	342.597
2047	438.782	466.510	1466.602	342.873
2048	438.383	467.435	1451.098	343.143
2049	437.923	468.286	1435.903	343.407
2050	437.404	469.066	1420.966	343.665