

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

Date	CO_2 Inequality Constraint		Equality Constraint	
	CO_2 Lower Bound (SSP4-6)	CO_2 Upper Bound (SSP 5-8.5)	CH_4 (SSP 5-8.5)	N_2O (SSP 5-8.5)
2024	417.235	428.297	1942.492	335.587
2025	419.189	431.957	1954.742	336.433
2026	421.157	435.727	1967.639	337.285
2027	423.132	439.606	1981.133	338.143
2028	425.105	443.593	1995.174	339.006
2029	427.072	447.691	2009.713	339.874
2030	429.033	451.897	2024.709	340.747
2031	430.989	456.214	2040.114	341.626
2032	432.965	460.654	2056.384	342.509
2033	434.990	465.228	2073.889	343.393
2034	437.076	469.934	2092.547	344.280
2035	439.228	474.774	2112.271	345.171
2036	441.447	479.745	2132.959	346.063
2037	443.729	484.849	2154.534	346.958
2038	446.066	490.089	2176.914	347.855
2039	448.445	495.462	2200.041	348.756
2040	450.863	500.972	2223.834	349.658
2041	453.316	506.619	2248.224	350.562
2042	455.811	512.206	2267.658	351.441
2043	458.349	517.548	2276.962	352.262
2044	460.931	522.665	2276.892	353.027
2045	463.574	527.564	2268.134	353.736
2046	466.290	532.255	2251.316	354.389
2047	469.079	536.743	2227.045	354.989
2048	471.940	541.034	2195.857	355.533
2049	474.866	545.130	2158.271	356.023
2050	477.845	549.033	2114.744	356.460