

Appendix:
NYS Social Cost Values

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U.S Social Cost of Carbon Dioxide by Discount Rate, Adjusted for New York State (2020\$ per metric ton of CO2)

Emissions Year	Recommended Range of Discount Rates			
	3% Average	2% Average (Central Rate)	1% Average	0% Average
2020	51	121	406	2,130
2021	52	123	409	2,125
2022	53	124	411	2,119
2023	54	126	414	2,114
2024	55	128	416	2,108
2025	56	129	418	2,103
2026	57	131	421	2,098
2027	59	132	423	2,093
2028	60	134	426	2,088
2029	61	136	428	2,083
2030	62	137	430	2,077
2031	63	139	433	2,072
2032	64	141	435	2,067
2033	65	142	437	2,061
2034	66	144	440	2,056
2035	67	146	442	2,050
2036	69	147	444	2,045
2037	70	149	446	2,040
2038	71	151	449	2,035
2039	72	152	451	2,030
2040	73	154	453	2,024
2041	74	156	456	2,020
2042	75	158	459	2,015
2043	77	160	461	2,011
2044	78	162	464	2,006
2045	79	164	467	2,002
2046	80	166	469	1,995
2047	81	167	471	1,989
2048	82	169	472	1,983
2049	84	170	474	1,976
2050	85	172	476	1,970

See DEC (2020) "Establishing a Value of Carbon"

Appendix: NYS Social Cost Values

**U.S. Social Cost of Methane by Discount Rate, Adjusted for New York State
(2020\$ per metric ton of CH₄)**

Emissions Year	Recommended Range of Discount Rates			
	3% Average	2% Average (Central Rate)	1% Average	0% Average
2020	1,500	2,700	6,400	23,000
2021	1,500	2,800	6,400	24,000
2022	1,600	2,800	6,500	24,000
2023	1,600	2,900	6,600	24,000
2024	1,700	2,900	6,700	24,000
2025	1,700	3,000	6,800	24,000
2026	1,800	3,100	6,900	24,000
2027	1,800	3,100	7,000	24,000
2028	1,900	3,200	7,100	24,000
2029	1,900	3,300	7,200	24,000
2030	2,000	3,400	7,300	24,000
2031	2,000	3,400	7,400	25,000
2032	2,100	3,500	7,500	25,000
2033	2,100	3,600	7,700	25,000
2034	2,200	3,600	7,800	25,000
2035	2,200	3,700	7,900	25,000
2036	2,300	3,800	8,000	25,000
2037	2,300	3,900	8,100	25,000
2038	2,400	3,900	8,200	25,000
2039	2,500	4,000	8,300	25,000
2040	2,500	4,100	8,400	26,000
2041	2,600	4,200	8,500	26,000
2042	2,600	4,200	8,600	26,000
2043	2,700	4,300	8,700	26,000
2044	2,700	4,400	8,800	26,000
2045	2,800	4,500	8,900	26,000
2046	2,800	4,500	9,000	26,000
2047	2,900	4,600	9,100	26,000
2048	3,000	4,700	9,200	26,000
2049	3,000	4,800	9,300	26,000
2050	3,100	4,800	9,400	26,000

See DEC (2020) "Establishing a Value of Carbon

Appendix: NYS Social Cost Values

U.S. Social Cost of Nitrous Oxide by Discount Rate, Adjusted for New York State (2020\$ per metric ton of N2O)

Emissions Year	Recommended Range of Discount Rates			0% Average
	3% Average	2% Average (Central Rate)	1% Average	
2020	18,000	42,000	130,000	660,000
2021	19,000	43,000	140,000	660,000
2022	19,000	44,000	140,000	660,000
2023	20,000	45,000	140,000	660,000
2024	20,000	45,000	140,000	660,000
2025	21,000	46,000	140,000	660,000
2026	21,000	47,000	140,000	660,000
2027	21,000	47,000	140,000	660,000
2028	22,000	48,000	140,000	670,000
2029	22,000	49,000	150,000	670,000
2030	23,000	50,000	150,000	670,000
2031	23,000	50,000	150,000	670,000
2032	24,000	51,000	150,000	670,000
2033	24,000	52,000	150,000	670,000
2034	25,000	53,000	150,000	670,000
2035	25,000	54,000	150,000	670,000
2036	26,000	54,000	160,000	670,000
2037	26,000	55,000	160,000	670,000
2038	27,000	56,000	160,000	680,000
2039	27,000	57,000	160,000	680,000
2040	28,000	58,000	160,000	680,000
2041	28,000	58,000	160,000	680,000
2042	29,000	59,000	160,000	680,000
2043	29,000	60,000	170,000	680,000
2044	30,000	61,000	170,000	680,000
2045	30,000	61,000	170,000	680,000
2046	31,000	62,000	170,000	680,000
2047	31,000	63,000	170,000	680,000
2048	32,000	64,000	170,000	680,000
2049	32,000	65,000	170,000	680,000
2050	33,000	66,000	170,000	680,000

See DEC (2020) "Establishing a Value of Carbon"

Appendix: NYS Social Cost Values

**U.S. Social Cost of HFC-125 by Discount Rate, Adjusted for New York State
(2020\$ per metric ton of HFC-125)**

Emissions Year	Recommended Range of Rates			0% Average
	3% Average	2% Average (Central Rate)	1% Average	
2020	210,000	410,000	1,000,000	4,000,000
2021	220,000	420,000	1,100,000	4,000,000
2022	220,000	430,000	1,100,000	4,000,000
2023	230,000	440,000	1,100,000	4,000,000
2024	240,000	450,000	1,100,000	4,000,000
2025	240,000	460,000	1,100,000	4,100,000
2026	250,000	470,000	1,100,000	4,100,000
2027	260,000	480,000	1,100,000	4,100,000
2028	260,000	490,000	1,200,000	4,100,000
2029	270,000	500,000	1,200,000	4,200,000
2030	280,000	510,000	1,200,000	4,200,000
2031	280,000	520,000	1,200,000	4,200,000
2032	290,000	530,000	1,200,000	4,200,000
2033	300,000	540,000	1,200,000	4,200,000
2034	310,000	550,000	1,300,000	4,300,000
2035	310,000	560,000	1,300,000	4,300,000
2036	320,000	570,000	1,300,000	4,300,000
2037	330,000	580,000	1,300,000	4,300,000
2038	340,000	600,000	1,300,000	4,400,000
2039	340,000	610,000	1,300,000	4,400,000
2040	350,000	620,000	1,400,000	4,400,000
2041	360,000	630,000	1,400,000	4,400,000
2042	370,000	640,000	1,400,000	4,500,000
2043	380,000	650,000	1,400,000	4,500,000
2044	380,000	660,000	1,400,000	4,500,000
2045	390,000	670,000	1,500,000	4,500,000
2046	400,000	680,000	1,500,000	4,600,000
2047	410,000	700,000	1,500,000	4,600,000
2048	420,000	710,000	1,500,000	4,600,000
2049	420,000	720,000	1,500,000	4,600,000
2050	430,000	730,000	1,500,000	4,600,000

See DEC (2020) "Establishing a Value of Carbon"

Appendix: NYS Social Cost Values

**U.S. Social Cost of HFC-134a by Discount Rate, Adjusted for New York State
(2020\$ per metric ton of HFC-134a)**

Emissions Year	Recommended Range of Rates			
	3% Average	2% Average (Central Rate)	1% Average	0% Average
2020	88,000	160,000	380,000	1,400,000
2021	90,000	160,000	390,000	1,400,000
2022	93,000	170,000	400,000	1,400,000
2023	96,000	170,000	400,000	1,500,000
2024	99,000	180,000	410,000	1,500,000
2025	100,000	180,000	420,000	1,500,000
2026	110,000	190,000	420,000	1,500,000
2027	110,000	190,000	430,000	1,500,000
2028	110,000	200,000	440,000	1,500,000
2029	110,000	200,000	450,000	1,500,000
2030	120,000	200,000	450,000	1,500,000
2031	120,000	210,000	460,000	1,500,000
2032	120,000	210,000	470,000	1,600,000
2033	130,000	220,000	480,000	1,600,000
2034	130,000	220,000	480,000	1,600,000
2035	140,000	230,000	490,000	1,600,000
2036	140,000	230,000	500,000	1,600,000
2037	140,000	240,000	510,000	1,600,000
2038	150,000	240,000	510,000	1,600,000
2039	150,000	250,000	520,000	1,600,000
2040	150,000	250,000	530,000	1,600,000
2041	160,000	260,000	530,000	1,600,000
2042	160,000	260,000	540,000	1,600,000
2043	160,000	270,000	550,000	1,700,000
2044	170,000	270,000	550,000	1,700,000
2045	170,000	280,000	560,000	1,700,000
2046	180,000	280,000	570,000	1,700,000
2047	180,000	290,000	580,000	1,700,000
2048	180,000	290,000	580,000	1,700,000
2049	190,000	300,000	590,000	1,700,000
2050	190,000	300,000	600,000	1,700,000

See DEC (2020) "Establishing a Value of Carbon"

Appendix: NYS Social Cost Values

**U.S. Social Cost of HFC-143a by Discount Rate, Adjusted for New York State
(2020\$ per metric ton of HFC-143a)**

Emissions Year	Recommended Range of Rates			0% Average
	3% Average	2% Average (Central Rate)	1% Average	
2020	270,000	560,000	1,500,000	6,300,000
2021	280,000	570,000	1,600,000	6,400,000
2022	280,000	580,000	1,600,000	6,400,000
2023	290,000	600,000	1,600,000	6,400,000
2024	300,000	610,000	1,600,000	6,500,000
2025	310,000	620,000	1,600,000	6,500,000
2026	310,000	630,000	1,700,000	6,500,000
2027	320,000	640,000	1,700,000	6,600,000
2028	330,000	650,000	1,700,000	6,600,000
2029	340,000	670,000	1,700,000	6,600,000
2030	340,000	680,000	1,700,000	6,600,000
2031	350,000	690,000	1,800,000	6,700,000
2032	360,000	700,000	1,800,000	6,700,000
2033	370,000	720,000	1,800,000	6,700,000
2034	380,000	730,000	1,800,000	6,700,000
2035	380,000	740,000	1,800,000	6,800,000
2036	390,000	750,000	1,900,000	6,800,000
2037	400,000	770,000	1,900,000	6,800,000
2038	410,000	780,000	1,900,000	6,800,000
2039	420,000	790,000	1,900,000	6,900,000
2040	430,000	810,000	1,900,000	6,900,000
2041	440,000	820,000	2,000,000	6,900,000
2042	450,000	830,000	2,000,000	6,900,000
2043	460,000	840,000	2,000,000	6,900,000
2044	460,000	860,000	2,000,000	7,000,000
2045	470,000	870,000	2,000,000	7,000,000
2046	480,000	880,000	2,100,000	7,000,000
2047	490,000	900,000	2,100,000	7,000,000
2048	500,000	910,000	2,100,000	7,100,000
2049	510,000	920,000	2,100,000	7,100,000
2050	520,000	940,000	2,100,000	7,100,000

See DEC (2020) "Establishing a Value of Carbon"

Appendix: NYS Social Cost Values

**U.S. Social Cost of HFC-32 by Discount Rate, Adjusted for New York State
(2020\$ per metric ton of HFC-32)**

Emissions Year	Recommended Range of Rates			0% Average
	3% Average	2% Average (Central Rate)	1% Average	
2020	39,000	68,000	160,000	600,000
2021	40,000	70,000	160,000	600,000
2022	41,000	72,000	170,000	600,000
2023	43,000	74,000	170,000	610,000
2024	44,000	76,000	170,000	610,000
2025	46,000	78,000	170,000	620,000
2026	47,000	80,000	180,000	620,000
2027	49,000	82,000	180,000	630,000
2028	50,000	84,000	180,000	630,000
2029	52,000	86,000	190,000	630,000
2030	53,000	89,000	190,000	640,000
2031	55,000	91,000	190,000	640,000
2032	57,000	93,000	200,000	650,000
2033	58,000	96,000	200,000	650,000
2034	60,000	98,000	210,000	660,000
2035	62,000	100,000	210,000	660,000
2036	64,000	100,000	210,000	670,000
2037	66,000	110,000	220,000	670,000
2038	68,000	110,000	220,000	680,000
2039	70,000	110,000	220,000	680,000
2040	71,000	110,000	230,000	690,000
2041	74,000	120,000	230,000	690,000
2042	76,000	120,000	230,000	700,000
2043	78,000	120,000	240,000	700,000
2044	80,000	120,000	240,000	700,000
2045	82,000	130,000	250,000	710,000
2046	84,000	130,000	250,000	710,000
2047	86,000	130,000	250,000	720,000
2048	88,000	140,000	260,000	720,000
2049	90,000	140,000	260,000	730,000
2050	93,000	140,000	260,000	730,000

See DEC (2020) "Establishing a Value of Carbon"

Appendix: NYS Social Cost Values

**U.S. Social Cost of HFC-152a by Discount Rate, Adjusted for New York State
(2020\$ per metric ton of HFC-152a)**

Emissions Year	Recommended Range of Rates			0% Average
	3% Average	2% Average (Central Rate)	1% Average	
2020	5,300	9,500	22,000	86,000
2021	5,600	9,800	23,000	87,000
2022	5,800	10,000	23,000	87,000
2023	6,000	10,000	24,000	88,000
2024	6,200	11,000	24,000	88,000
2025	6,400	11,000	25,000	89,000
2026	6,600	11,000	25,000	90,000
2027	6,800	11,000	25,000	90,000
2028	7,000	12,000	26,000	91,000
2029	7,200	12,000	26,000	91,000
2030	7,400	12,000	27,000	92,000
2031	7,700	13,000	27,000	92,000
2032	8,000	13,000	28,000	93,000
2033	8,200	13,000	28,000	94,000
2034	8,400	14,000	29,000	94,000
2035	8,700	14,000	29,000	95,000
2036	9,000	14,000	30,000	95,000
2037	9,200	15,000	30,000	96,000
2038	9,500	15,000	31,000	97,000
2039	9,800	15,000	31,000	97,000
2040	10,000	16,000	32,000	98,000
2041	10,000	16,000	32,000	99,000
2042	11,000	17,000	33,000	100,000
2043	11,000	17,000	34,000	100,000
2044	11,000	18,000	34,000	100,000
2045	12,000	18,000	35,000	100,000
2046	12,000	18,000	36,000	100,000
2047	12,000	19,000	36,000	100,000
2048	13,000	19,000	37,000	100,000
2049	13,000	20,000	37,000	110,000
2050	13,000	20,000	38,000	110,000

See DEC (2020) "Establishing a Value of Carbon"

Appendix: NYS Social Cost Values

U.S. Social Cost of HFC-227ea by Discount Rate, Adjusted for New York State (2020\$ per metric ton of HFC-227ea)

Emissions Year	Recommended Range of Rates			
	3% Average	2% Average (Central Rate)	1% Average	0% Average
2020	190,000	380,000	990,000	3,800,000
2021	200,000	390,000	1,000,000	3,900,000
2022	210,000	400,000	1,000,000	3,900,000
2023	210,000	410,000	1,000,000	3,900,000
2024	220,000	420,000	1,000,000	3,900,000
2025	220,000	430,000	1,100,000	3,900,000
2026	230,000	440,000	1,100,000	4,000,000
2027	230,000	450,000	1,100,000	4,000,000
2028	240,000	450,000	1,100,000	4,000,000
2029	250,000	460,000	1,100,000	4,000,000
2030	250,000	470,000	1,100,000	4,000,000
2031	260,000	480,000	1,100,000	4,000,000
2032	260,000	490,000	1,200,000	4,100,000
2033	270,000	500,000	1,200,000	4,100,000
2034	280,000	510,000	1,200,000	4,100,000
2035	280,000	520,000	1,200,000	4,100,000
2036	290,000	530,000	1,200,000	4,100,000
2037	300,000	540,000	1,200,000	4,200,000
2038	300,000	550,000	1,200,000	4,200,000
2039	310,000	560,000	1,300,000	4,200,000
2040	320,000	570,000	1,300,000	4,200,000
2041	320,000	580,000	1,300,000	4,200,000
2042	330,000	590,000	1,300,000	4,200,000
2043	340,000	600,000	1,300,000	4,300,000
2044	350,000	610,000	1,300,000	4,300,000
2045	350,000	620,000	1,400,000	4,300,000
2046	360,000	630,000	1,400,000	4,300,000
2047	370,000	640,000	1,400,000	4,300,000
2048	370,000	650,000	1,400,000	4,300,000
2049	380,000	660,000	1,400,000	4,400,000
2050	390,000	670,000	1,400,000	4,400,000

See DEC (2020) "Establishing a Value of Carbon"