

## South Dakota State University GHG Inventory FY20-22

Fiscal Year	Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
2020	1	Other On-Campus Stationary	19,321,303	19,321.30	1,926	53.94	39	10.26	19,385.50
2020	2	Direct Transportation	9	0.01	0	0	0	0	0.01
2020	2	Purchased Electricity	24,260,777	24,260.78	372	10.4	2,576	682.6	24,953.78
2020	3	FERA	2,456,637	2,456.64	192,324	5,385.07	26	6.86	7,848.56
2020	3	T&D Losses	1,357,784	1,357.78	21	0.58	144	38.2	1,396.57

Fiscal Year	Scope	CO2 (kg)	CH4 (kg)	N2O (kg)	GHG MTCDE
2020	1	19,321,312	1,926	39	19,385.51
2020	2	24,260,777	372	2,576	24,953.78
2020	3	3,814,421	192,345	170	9,245.13

Fiscal Year	CO2 (kg)	CH4 (kg)	N2O (kg)	Gross MTCDE	Offsets (MTCDE)	Compost (MTCDE)	Non-Additional Sequestration (MTCDE)	Biogenic (MT CO2)	Net MTCDE
2020	47,396,510	194,643	2,785	53,584.41	0	0	0	0	53,584.41

Export Date	Campus	eGrid Region	EF Version	GWP Version	Scope 2 Method	Radiative Forcing	Tags
3/21/2023 15:03	Main Campus	USA, MROW	2022	AR5 100-year	Location-Based	2.7	- All -

Fiscal Year	Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
2021	1	Other On-Campus Stationary	19,859,028	19,859.03	1,980	55.44	40	10.54	19,925.01
2021	2	Purchased Electricity	24,964,132	24,964.13	382	10.7	2,651	702.39	25,677.22
2021	3	FERA	2,525,007	2,525.01	197,676	5,534.94	27	7.05	8,066.99
2021	3	T&D Losses	1,397,148	1,397.15	21	0.6	148	39.31	1,437.06

Fiscal Year	Scope	CO2 (kg)	CH4 (kg)	N2O (kg)	GHG MTCDE
2021	1	19,859,028	1,980	40	19,925.01
2021	2	24,964,132	382	2,651	25,677.22
2021	3	3,922,155	197,698	175	9,504.05

Fiscal Year	CO2 (kg)	CH4 (kg)	N2O (kg)	Gross MTCDE	Offsets (MTCDE)	Compost (MTCDE)	Non-Additional Sequestration (MTCDE)	Biogenic (MT CO2)	Net MTCDE
2021	48,745,314	200,060	2,865	55,106.28	0	0	0	0	55,106.28

Export Date	Campus	eGrid Region	EF Version	GWP Version	Scope 2 Method	Radiative Forcing	Tags
3/21/2023 16:02	Main Campus	USA, MROW	2022	AR5 100-year	Location-Based	2.7	- All -

Fiscal Year	Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
2022	1	Other On-Campus Stationary	21,121,619	21,121.62	2,106	58.97	42	11.21	21,191.80
2022	2	Purchased Electricity	26,249,389	26,249.39	402	11.26	2,787	738.55	26,999.19
2022	3	FERA	2,685,541	2,685.54	210,244	5,886.84	28	7.5	8,579.87
2022	3	T&D Losses	1,469,079	1,469.08	23	0.63	156	41.33	1,511.04

Fiscal Year	Scope	CO2 (kg)	CH4 (kg)	N2O (kg)	GHG MTCDE
2022	1	21,121,619	2,106	42	21,191.80
2022	2	26,249,389	402	2,787	26,999.19
2022	3	4,154,620	210,267	184	10,090.92

Fiscal Year	CO2 (kg)	CH4 (kg)	N2O (kg)	Gross MTCDE	Offsets (MTCDE)	Compost (MTCDE)	Non-Additional Sequestration (MTCDE)	Biogenic (MT CO2)	Net MTCDE
2022	51,525,627		212,775	3,014	58,281.90	0	0	0	0 58,281.90
Export Date	Campus	eGrid Region	EF Version	GWP Version	Scope 2 Method	Radiative Forcing	Tags		
3/21/2023 16:02	Main Campus	USA, MROW	2022	AR5 100-year	Location-Based		2.7 - All -		