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Annual Emissions Report

2020 Report 10/21/2020 17:34

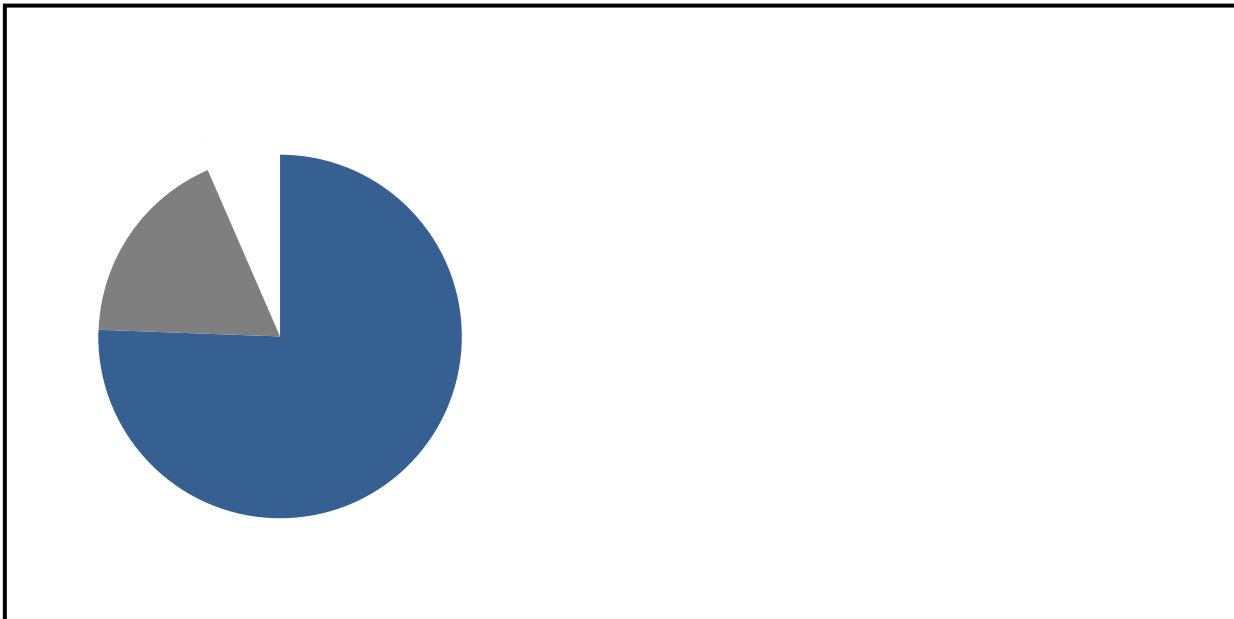
Bowdoin College

Scope1	CO ₂ e	CO ₂	N ₂ O	CH ₄	HFCs	PFCs	SF ₆	Unit
Stationary, On site Fuel Combustion	8,098	8,090	0.0166	0.1532				metric tons
Vehicle Use	361	359	0.0040	0.0248				metric tons
Fugitive Refrigerants	201				0.09			metric tons
SCOPE 1 TOTAL	8,659	8,448	0.02	0.18	0.09	0.00	0.00	metric tons

Scope2	CO ₂ e	CO ₂	N ₂ O	CH ₄	HFCs	PFCs	SF ₆	Unit
Purchased Electricity (State Emissions)	2,047	1,970	0.1681	1.1768				metric tons
SCOPE 2 TOTAL	2,047	1,970	0.17	1.18	0.00	0.00	0.00	metric tons

Scope3	CO ₂ e	CO ₂	N ₂ O	CH ₄	HFCs	PFCs	SF ₆	Unit
Travel: Air	576	571	0.0181	0.0158				metric tons
Travel: Vehicle	0	0	0.0000	0.0000				metric tons
Employee Commute	973	969	0.0110	0.0488				metric tons
Transmission Loss from Electricity	123	118	0.0101	0.0706				metric tons
Waste (only calculated in MTCO ₂ e)	024							metric tons
SCOPE 3 TOTAL	748	1,658	0.04	0.14	0.00	0.00	0.00	metric tons

2020 Emissions Totals	CO ₂ e	/FTE	/MM Sq Ft	/MM \$ Rev	Unit
Own Source	10,707	5.86	4,972	61	metric tons
Scope 3	748	0.41	347	4	metric tons
Total	11,455	6.27	5,319	65	metric tons



CH₄: Methane, GWP = 28. Most methane emissions are the result of waste management and agriculture processes.

HFCs: Hydrofluorocarbons, GWP varies by type. HFCs are a family of different chemicals defined by carbon chains saturated with multiple bonds to hydrogen or fluorine. Mostly used as refrigerants, HFCs have a strong impact on the atmosphere with GWPs that range from 12 to 12,000.

PFCs are a family of different chemicals defined by carbon chains saturated exclusively by fluorine molecules. The semiconductor and aluminum production industry account for the majority of PFCs, and virtually all emissions come from industrial sources. While PFC emissions are small, they have GWPs from 5,700 to 22,200.

Sulfur hexafluoride, GWP = 23,900. Mostly used in magnesium production, SF₆ is also widely used as a dielectric in high voltage systems.

Carbon dioxide equivalents. This value represents the amount of each emission multiplied by its GWP. Carbon dioxide equivalents allow for potentially different emissions to be compared by using a single value that accounts for the weighted impact of each emission type.

A metric ton is 1000 kilograms, approximately 2,204.62 pounds.

Emissions from distillate oil use were calculated using emissions factors from data of No.2 oil.

In some cases, mobile fuel combustion was reported in dollars. If so, the dollar amount was divided by the average fuel price of the given year and region
