

Description:

Industry: 61 - Educational Services

Address: 70 Whitney Avenue Contact: 203-436-3571 www.yale.edu

Reporting Information

Reporting Protocol: GHG Protocol

GWP Standard: AR5

Base Year: 2015

Consolidation Methodology: Operational Control Only

Status: TCR Accepted

Verification Information

Verification Body: GHD (formerly Conestoga-Rovers & Associates Limited)

Level of Assurance: Reasonable

Entity Emissions | Total in metric tons of CO2e

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Stationary Combustion - Scope 1	226,109.518685	225,873.390098	120.305165	115.823422	0	0	0	0
Mobile Combustion - Scope 1	2,857.544741	2,841.676768	2.788749	13.079224	0	0	0	0
Fugitive - Scope 1	2,196.0934	237.51	0	0	1,958.5834	0	0	0
Total	231,163.156826	228,952.576866	123.093914	128.902646	1,958.5834	0	0	0
Applied Offsets	52,746							
Net Total	178,417.156826							

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Purchased Electricity - Location Based - Scope 2	39,737.709892	39,452.169544	129.688718	155.85163	0	0	0	0
Total	39,737.709892	39,452.169544	129.688718	155.85163	0	0	0	0
Applied Offsets	0							
Net Total	39,737.709892							

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Purchased Electricity - Market Based - Scope 2	39,737.709892	39,452.169544	129.688718	155.85163	0	0	0	0
Total	39,737.709892	39,452.169544	129.688718	155.85163	0	0	0	0
Applied Offsets	0							
Net Total	39,737.709892							

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Mobile Biomass Combustion - Biomass	105.508167	105.508167	0	0	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
Total	105.508167	105.508167	0	0	0	0	0	0
Applied Offsets	0							
Net Total	105.508167							

Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	226,109.518685	225,873.390098	4.296612	0.437068	0	0	0	0
Mobile Combustion - Scope 1	2,857.544741	2,841.676768	0.099598	0.049355	0	0	0	0
Fugitive - Scope 1	2,196.0934	237.51	0	0	1,958.5834	0	0	0
Total	231,163.156826	228,952.576866	4.39621	0.486423	1,958.5834	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	39,737.709892	39,452.169544	4.631738	0.588118	0	0	0	0
Total	39,737.709892	39,452.169544	4.631738	0.588118	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	39,737.709892	39,452.169544	4.631738	0.588118	0	0	0	0
Total	39,737.709892	39,452.169544	4.631738	0.588118	0	0	0	0

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Biomass Combustion - Biomass	105.508167	105.508167	0	0	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
Total	105.508167	105.508167	0	0	0	0	0	0

Simplified Estimation Methods (SEMs)

	Total Estimated CO2e (t)	Total Emissions (t of CO2e)	Estimated CO2e as a Percentage of Total*
Location-based	2,196	271,007	0.81%
Market-based	2,196	271,007	0.81%

*Total based on Scope 1, Scope 2, & biomass emissions

Facility Emissions | Buildings Not Served by Plants

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
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Stationary Combustion - Scope 1	14,215.9816	14,200.8381	0.273	0.0283	0	0	0	0
Fugitive - Scope 1	1,958.5834	0	0	0	1,958.5834	0	0	0
Total	16,174.565	14,200.8381	0.273	0.0283	1,958.5834	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	21,413.0713	21,259.2565	2.4951	0.3168	0	0	0	0
Total	21,413.0713	21,259.2565	2.4951	0.3168	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	21,413.0713	21,259.2565	2.4951	0.3168	0	0	0	0
Total	21,413.0713	21,259.2565	2.4951	0.3168	0	0	0	0

Facility Emissions | Central Power Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	92,333.010915	92,236.544897	1.754943	0.178594	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0

Total	92,333.010915	92,236.544897	1.754943	0.178594	0	0	0	0
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Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	6,383.571868	6,337.683951	0.744319	0.094516	0	0	0	0
Total	6,383.571868	6,337.683951	0.744319	0.094516	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	6,383.571868	6,337.683951	0.744319	0.094516	0	0	0	0
Total	6,383.571868	6,337.683951	0.744319	0.094516	0	0	0	0

Facility Emissions | Fleet Vehicles

Equity share - 100.00 | Entity controls the facility emissions - Yes

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Biomass Combustion - Biomass	105.508167	105.508167	0	0	0	0	0	0
Total	105.508167	105.508167	0	0	0	0	0	0

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Combustion - Scope 1	2,857.544741	2,841.676768	0.099598	0.049355	0	0	0	0

Fugitive - Scope 1	237.51	237.51	0	0	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
Total	3,095.054741	3,079.186768	0.099598	0.049355	0	0	0	0

Facility Emissions | Sterling Power Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	101,851.093981	101,745.160827	1.931267	0.195689	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
Total	101,851.093981	101,745.160827	1.931267	0.195689	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	1,690.576211	1,678.423608	0.197119	0.025031	0	0	0	0
Total	1,690.576211	1,678.423608	0.197119	0.025031	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	1,690.576211	1,678.423608	0.197119	0.025031	0	0	0	0

Total	1,690.576211	1,678.423608	0.197119	0.025031	0	0	0	0
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Facility Emissions | West Campus Power Plant

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	17,709.432189	17,690.846274	0.337402	0.034485	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
Total	17,709.432189	17,690.846274	0.337402	0.034485	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	10,250.490513	10,176.805485	1.1952	0.151771	0	0	0	0
Total	10,250.490513	10,176.805485	1.1952	0.151771	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	10,250.490513	10,176.805485	1.1952	0.151771	0	0	0	0
Total	10,250.490513	10,176.805485	1.1952	0.151771	0	0	0	0

