

Conestoga College Phase 1:

IAQP Summary		
Area (sqft)	72,597	From "Conestoga_enVerid Sizing Report (2019 0820)_REV1.pdf"
Occupancy	1,759	
Outside Air Reduced (CFM)	20,381	
Number of HLR 1000E Modules	6	

Energy Savings:

Annual energy savings are determined below based on building operating hours and energy modeling results:

Energy Savings Parameters		
HVAC operation Hours	16 Hours, 6 days/week (7AM to 11PM)	
Energy Model Results – Annual		
Parameter	Result (Annual)	Source
Heating Energy Savings (kBtu)	2,025,029	From "Energy Savings Tool"
Cooling Energy Savings (kWh)	13,451	
HLR Module Parasitic Energy Use (kWh)	15,350	

CO₂e Reduction:

Parameter	Result (Annual)	Source
CO ₂ e Reduction from cooling (Metric Ton)	(0.053)	Using electric conversion factor of 28 gCO ₂ e/kWh for Ontario, per www.canada.ca
CO ₂ e Reduction from heating (Metric Ton)	107.994	Using natural gas conversion factor of 1,921 gCO ₂ e/m ³ for Ontario, per www.canada.ca
Total CO ₂ e Reduction (Metric Ton)	107.941	= [CO ₂ e Reduction from cooling + heating]

Conestoga College Phase 2:

IAQP Summary		
Area (sqft)	32,974	From "Conestoga College – PH2 – IAQP Summary (2022 0509).pdf"
Occupancy	772	
Outside Air Reduced (CFM)	4,094	
Number of HLR 200M Modules	2	

Energy Savings:

Annual energy savings are determined below based on building operating hours and energy modeling results:

Energy Savings Parameters		
HVAC operation Hours	16 Hours, 6 days/week (7AM to 11PM)	
Energy Model Results – Annual		
Parameter	Result (Annual)	Source
Heating Energy Savings (kBtu)	389,292	From "Energy Savings Tool"
Cooling Energy Savings (kWh)	2,702	
HLR Module Parasitic Energy Use (kWh)	6,739	

CO₂e Reduction:

Parameter	Result (Annual)	Source
CO ₂ e Reduction from cooling (Metric Ton)	(0.113)	Using electric conversion factor of 28 gCO ₂ e/kWh for Ontario, per www.canada.ca
CO ₂ e Reduction from heating (Metric Ton)	20.761	Using natural gas conversion factor of 1,921 gCO ₂ e/m ³ for Ontario, per www.canada.ca
Total CO ₂ e Reduction (Metric Ton)	20.648	= [CO ₂ e Reduction from cooling + heating]