

Environmental Performance Report 2021

Metric	Unit	Quantity
Scope 1 GHG emissions	tCO2e	216.5
Scope 2 GHG emissions (location-based)	tCO2e	679.1
Scope 2 GHG emissions (market-based)	tCO2e	492.7
Total energy consumption	MWh	2,498.8
Total water consumption	MegaLitres	2,671

Introduction

This Environmental Performance Report has been prepared to meet the requirement of IEEE 1680.1 / 4.9.2.1. The statement is structured in accordance with ISO 14064-1: 2018.

Period

These disclosures have been prepared based on a reporting year of January 1 to December 31, 2021

Boundaries

The organizational boundary of the disclosures is constrained to assets where Smart Technologies ULC¹² Calgary have operational control. This includes the Calgary headquarters at 3636 Research Road NW and one 3.5t van.

GHG emissions methodology summary

The GHG emissions statement has been prepared using guidance included in the World Resources Institute/World Business Council for Sustainable Development Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard, Revised Edition (the GHG Protocol). The GHG emissions have been determined based on measured or estimated activity data multiplied by relevant carbon emission factors.

The GHG emissions reported include:

- Scope 1 – Stationary combustion of natural gas (heating) and diesel (generator)
- Scope 1 – Mobile combustion of diesel
- Scope 2 – Purchased electricity used in HQ (office space, test labs, environmental chamber and server room)

Other GHG emissions have been excluded based on either low materiality³, externality to boundary, or lack of data.

¹ [We are SMART | Powering connections that matter everywhere \(smarttech.com\)](https://www.smarttech.com)

² [Connect with Us | SMART Technologies](#)

³ Materiality threshold applied is 5%

All GHG emissions figures are in tonnes of carbon dioxide equivalents (CO2e) and include the greenhouse gases carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O) using the AR4 GWPs. Perfluorocarbons (PFCs), hydrofluorocarbons (HFCs), and sulphur hexafluoride (SF6) emissions have been omitted from our reporting as they are not a material source of greenhouse gases for the business.

Energy consumption methodology summary

The Energy consumption information has been prepared using guidance within GRI Disclosure 302-1 (a) *Total fuel consumption within the organization from non-renewable sources*.

Water consumption methodology summary

The Water consumption information has been prepared using guidance within GRI Disclosure 303-3(a) *Total water withdrawal*.

Emission factor values

Metric	Unit	Quantity
Scope 1 GHG emissions – stationary combustion of natural gas	Kg CO2e/kWh	0.18316
Scope 1 GHG emissions – stationary combustion of diesel	KG CO2e/litre	2.70553
Scope 1 GHG emissions – mobile combustion of diesel (Van 3.5t)	KG CO2e/mile	0.40792
Scope 2 GHG emissions – consumption of electricity (location-based)	Kg CO2e/kWh	0.51
Scope 2 GHG emissions – consumption of electricity (market-based)	Kg CO2e/kWh	0.37

Emission factor sources

Metric	Source
Scope 1 GHG emissions – stationary combustion of natural gas	UK Department for Business, Energy & Industrial Strategy (BEIS)
Scope 1 GHG emissions – stationary combustion of diesel	UK Department for Business, Energy & Industrial Strategy (BEIS)
Scope 1 GHG emissions – mobile combustion of diesel (Van 3.5t)	UK Department for Business, Energy & Industrial Strategy (BEIS)
Scope 2 GHG emissions – consumption of electricity (location-based)	National Inventory Report 1990 –2021: greenhouse gas Sources and sinks in Canada
Scope 2 GHG emissions – consumption of electricity (Market-based)	Enmax 2022 Environmental, Social, Governance Report