

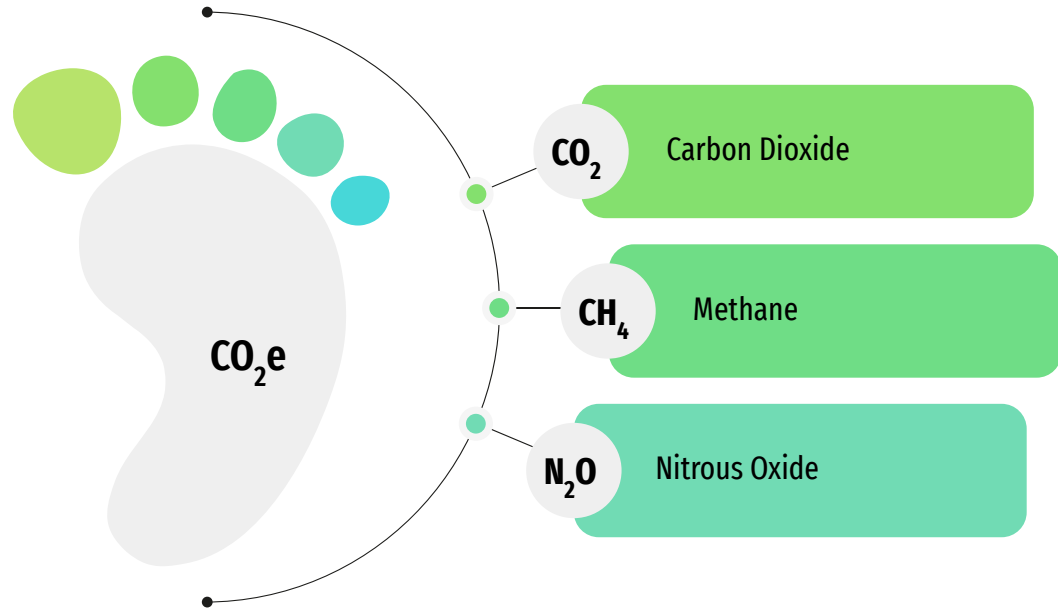
# **Carbon Footprint Report 2020**

Your School Name

# Greenhouse Gases Covered

The carbon footprints are expressed in units of carbon dioxide equivalent ( $\text{CO}_2\text{e}$ ). This is in line with *The GHG Protocol*.

According to the “Emission Factor Summary” of *Measure Emissions: A Guide for Organisations* published by New Zealand Ministry of Environment, the listed greenhouse gases (GHGs) on this page are covered in the calculation.



## SCHOOL BOUNDARY

### Scope 1 - Direct Emission



Stationary Combustion



School Fleet

### Scope 2 - Indirect Emission (Purchased Energy)



Purchased Electricity

## OUTSIDE SCHOOL BOUNDARY

### Scope 3 - Indirect Emission (Other)



Landfill  
Waste



Water and  
Wastewater



Business  
Travel



Staff  
Commuting

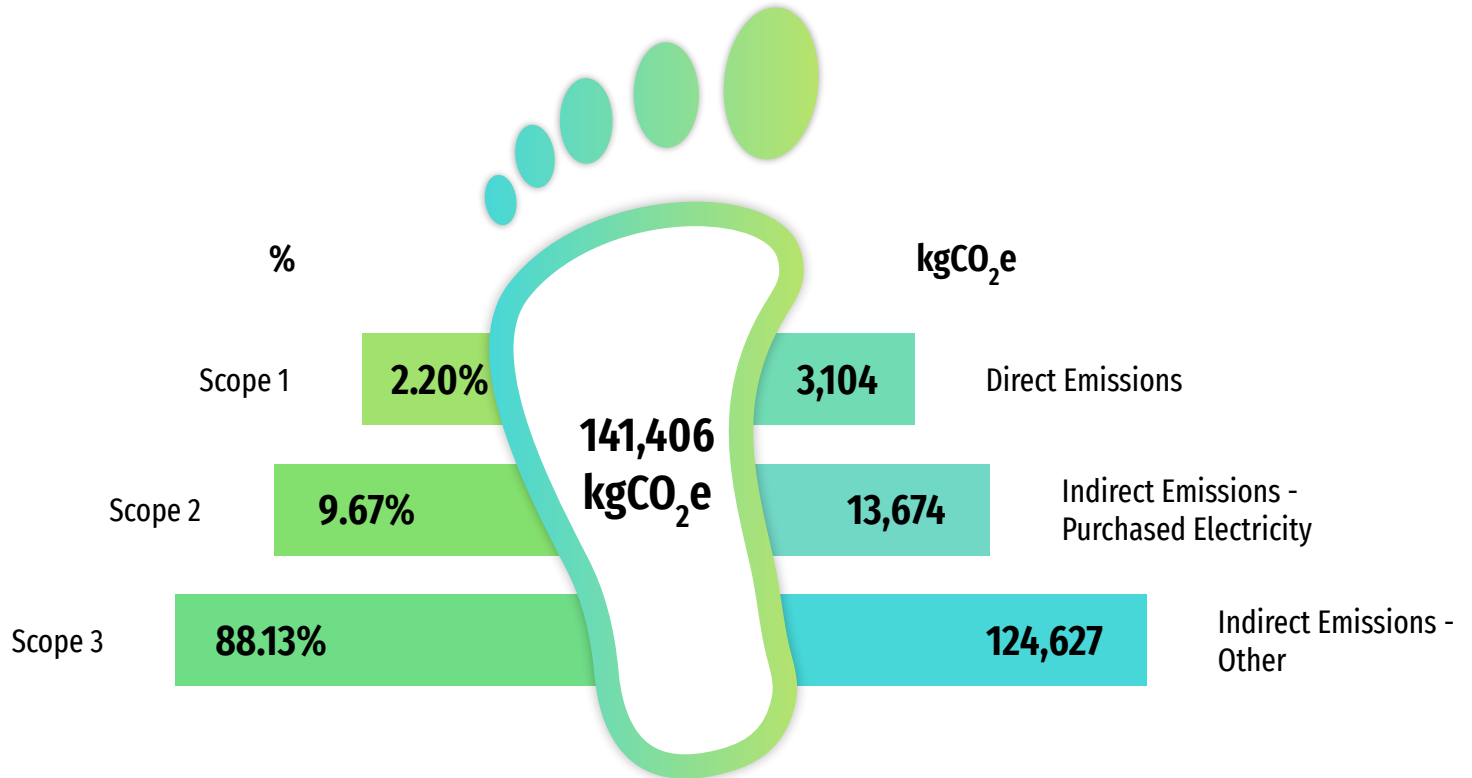


EOTC

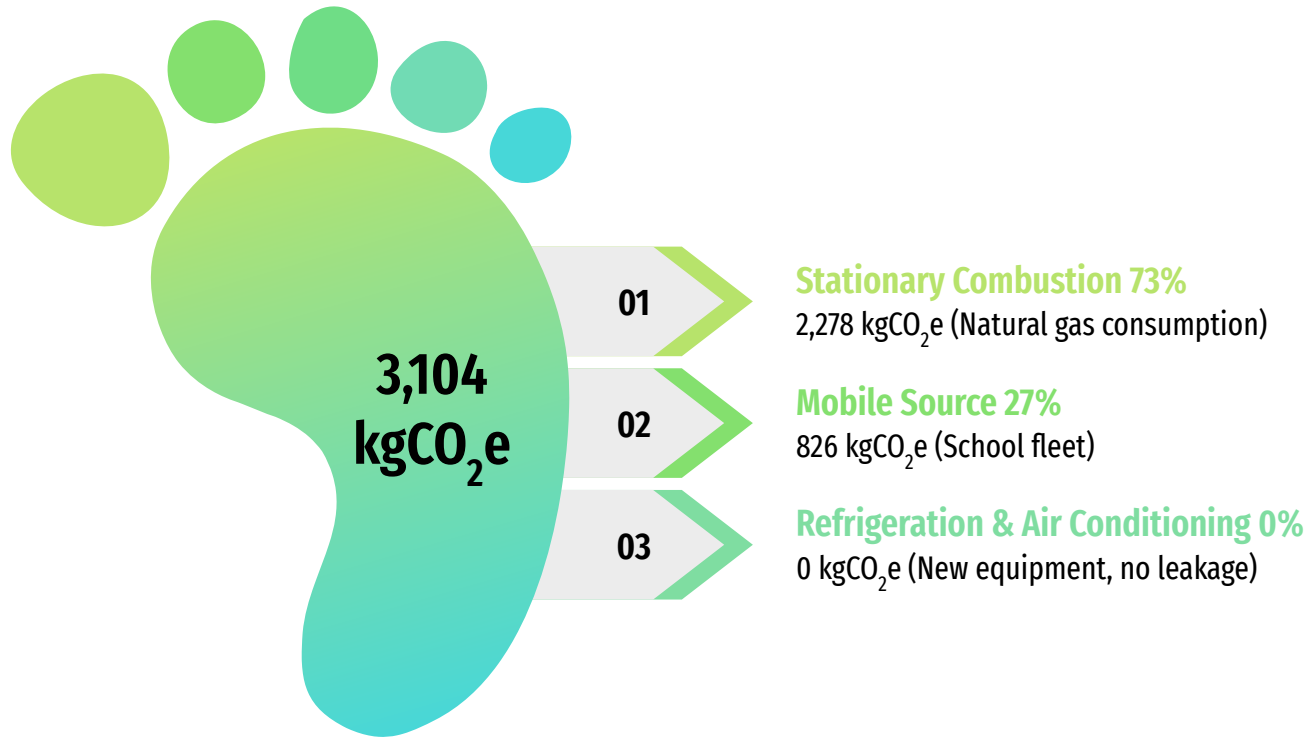


T&D Loss

# Total Carbon Emissions in 2020

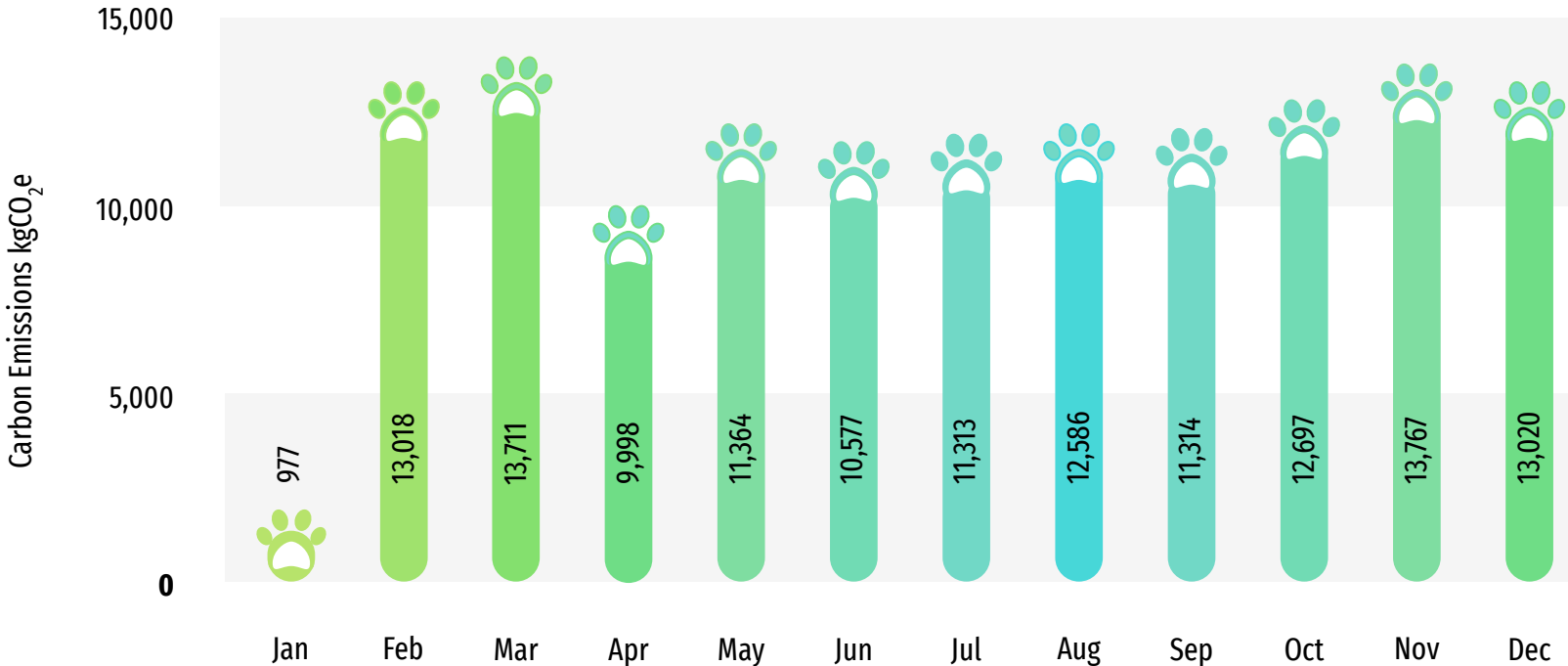


# Scope 1 - Direct Emissions



**Note:** The emissions from Refrigeration & AC are zero because the devices are new and there is no maintenance data available.

# Scope 2 - Indirect Emissions (Purchased Electricity)



# Scope 3 - Indirect Emissions (Other)



**Note:** We applied the data of business travel and EOTC in 2019 to estimate the emissions generated by these two activities in 2020.

# Emission Reductions by Solar Panels in 2020

**490 kgCO<sub>2</sub>e = 52 trees**



**Note:** According to the solar system dashboard, number of trees planted = kWh produced x 0.0117 trees/kWh.

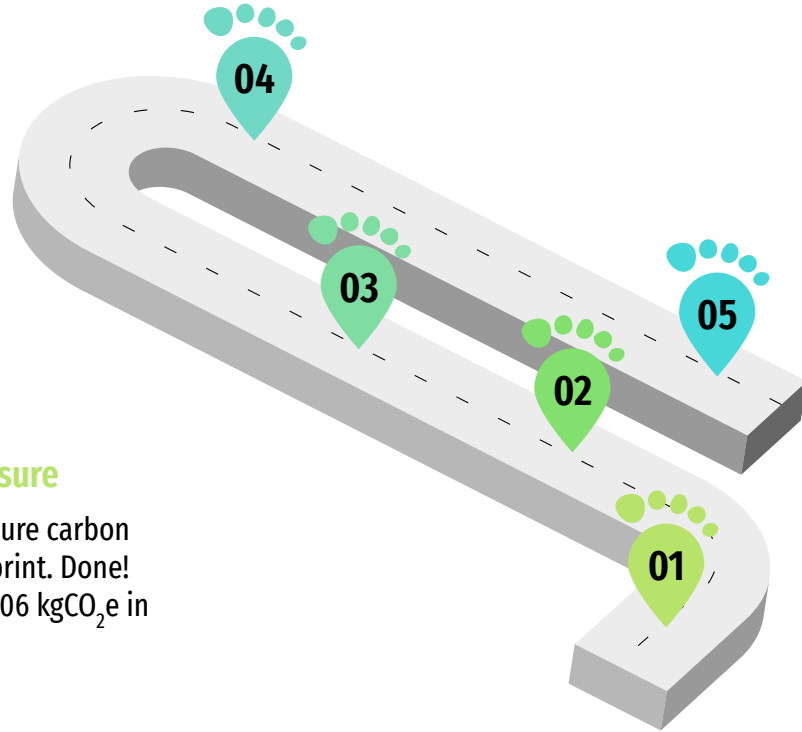


# What You Should Do Next?

**01**

## Measure

Measure carbon footprint. Done!  
199,606 kgCO<sub>2</sub>e in 2020



**02**

## Analyse

Analyse carbon related activities and reduction potentials

**03**

## mitiGate

Mitigate (reduce) your carbon footprint.

**04**

## Integrate

Integrate carbon management into curriculum

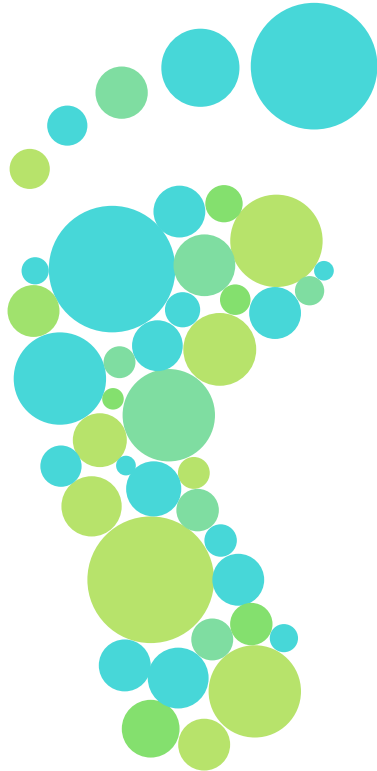
**05**

## Communicate

Communicate your achievements with stakeholders



pathways to net zero carbon



Together  
We Create  
A Better Future

Auckland, New Zealand. 7 June 2021.  
Prepared by The Greenfield Limited  
<https://www.thegreenfield.co.nz/carbon>