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# **PALMERSTON NORTH CITY COUNCIL**

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## **AGENDA MINUTES ATTACHMENTS SUSTAINABILITY COMMITTEE**

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**9AM, WEDNESDAY 11 OCTOBER 2023**

COUNCIL CHAMBER, FIRST FLOOR  
CIVIC ADMINISTRATION BUILDING  
32 THE SQUARE, PALMERSTON NORTH

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## **SUSTAINABILITY COMMITTEE MEETING**

11 October 2023

### **11 Palmerston North City Council Organisational Emissions Inventory 2022/23**

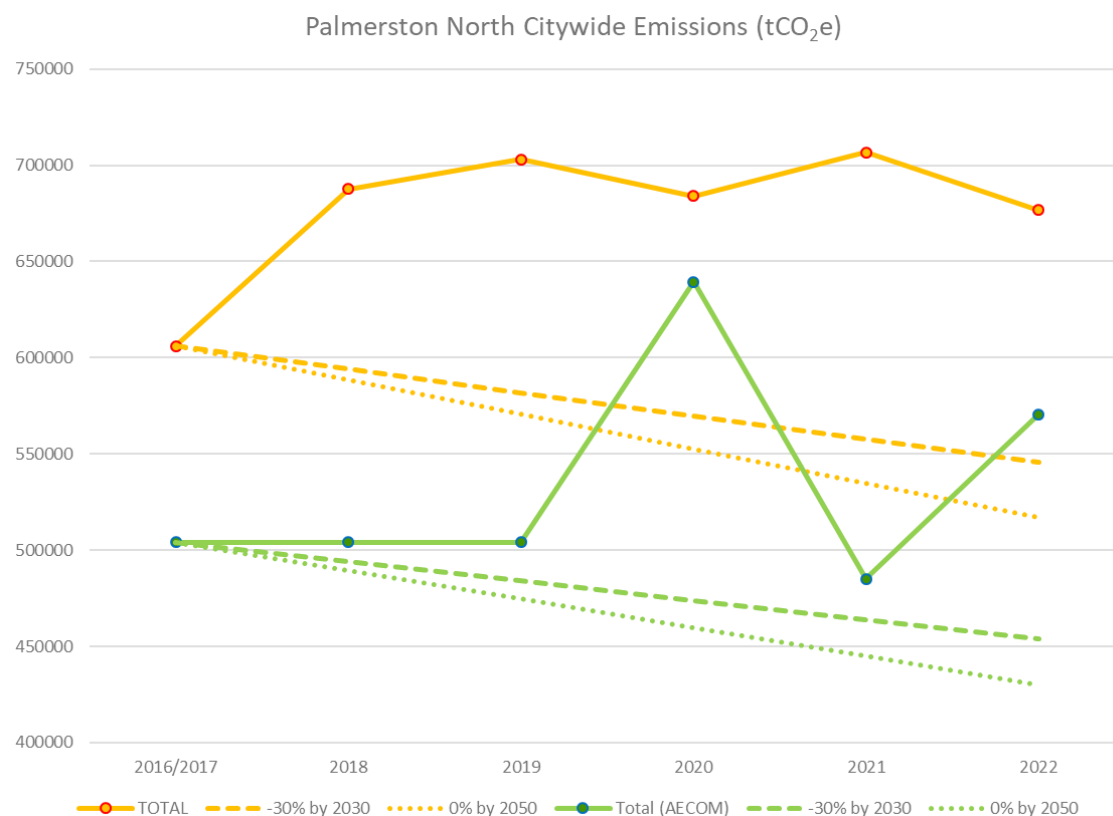
1. Presentation - Palmerston North City Council Organisational Emissions Inventory 2022/23

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## Context and Detailed Discussion

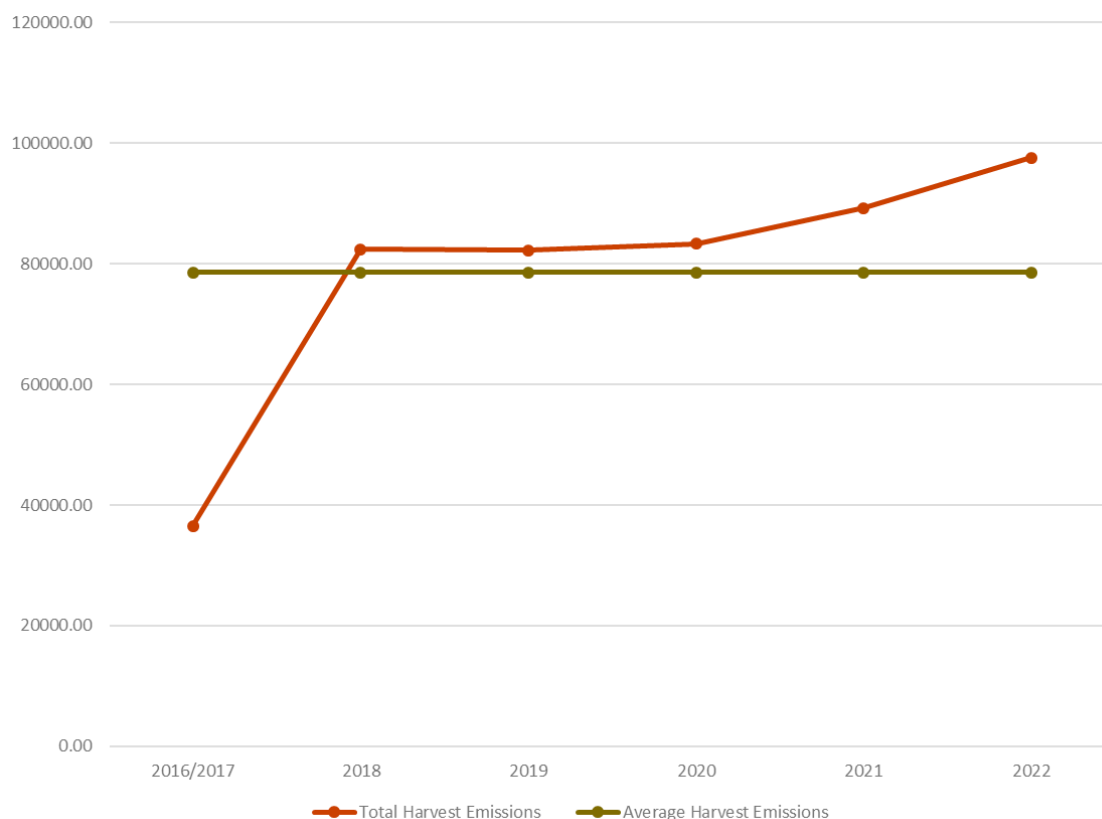
# Comparing Inventories



The new inventory followed a detailed analysis of the previous approach and identified several areas for improvement.

The previous inventories relied on the spreadsheet provided by AECOM in 2018.

# Harvest Emissions

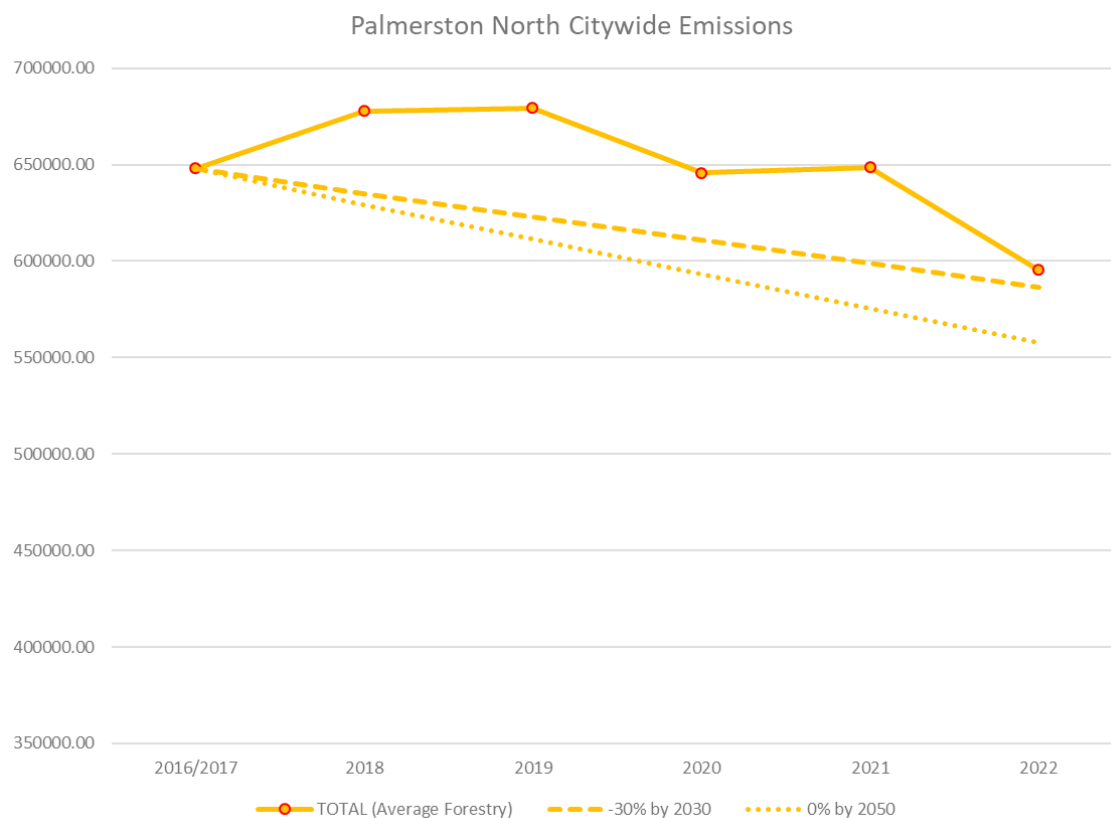


Harvest rates in 2016/17 were approximately 1.5% compared to 3.3% in subsequent years.

Total forest area has also increased over the same period.

Precise harvest figures are considered to be commercially sensitive and therefore harvest numbers are estimates.

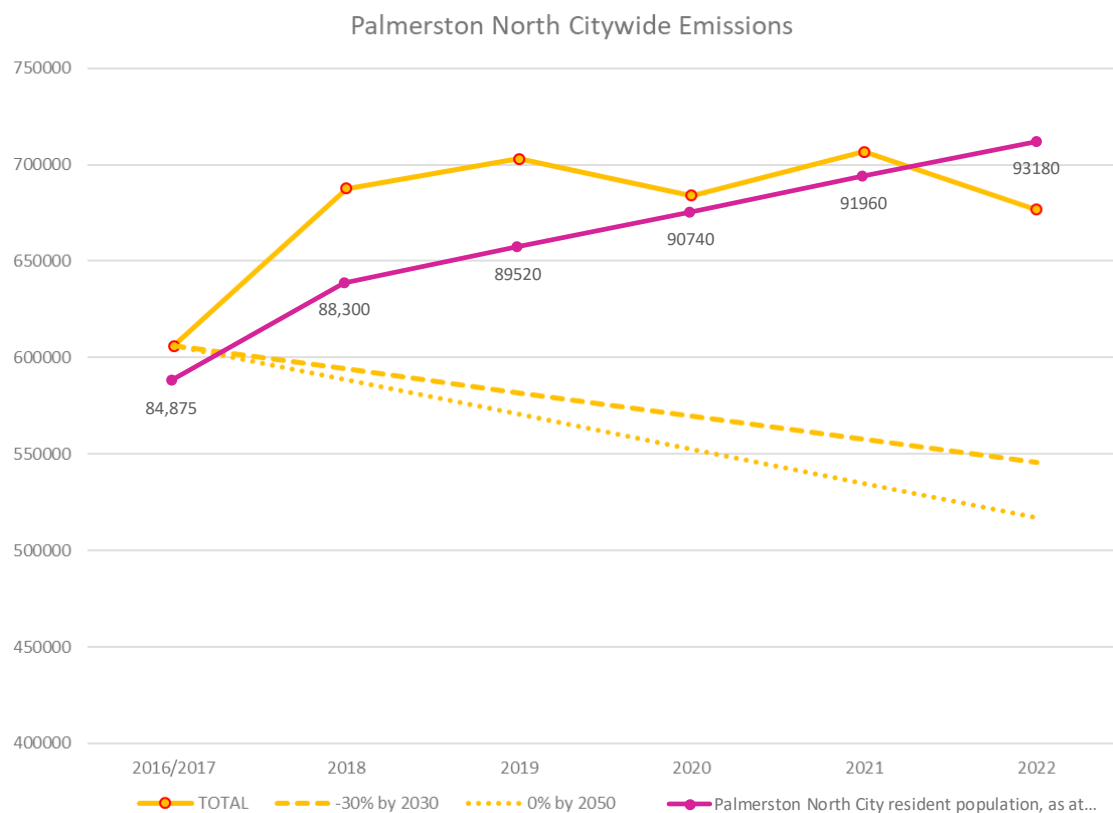
# Gross with Averaged Harvest Emissions



Baseline data from 2016/17 is skewed by unusually low harvest emissions from forestry.

Averaging forestry emissions over time provides a more regular distribution but may mask significant short-term changes.

# Gross vs Per Capita Emissions



Total emissions have increased by 10% since baseline, but have flatlined since 2018.

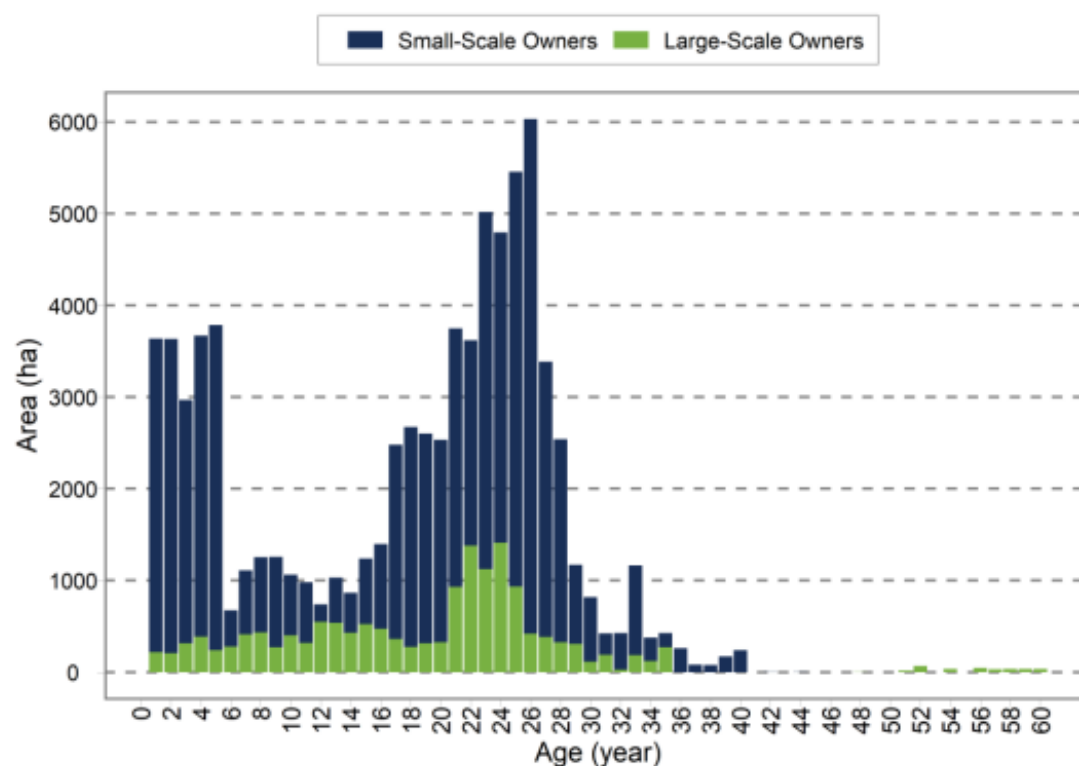
Population has increased by 11%, meaning per capita emissions have declined by 7% since 2018.



# Questions

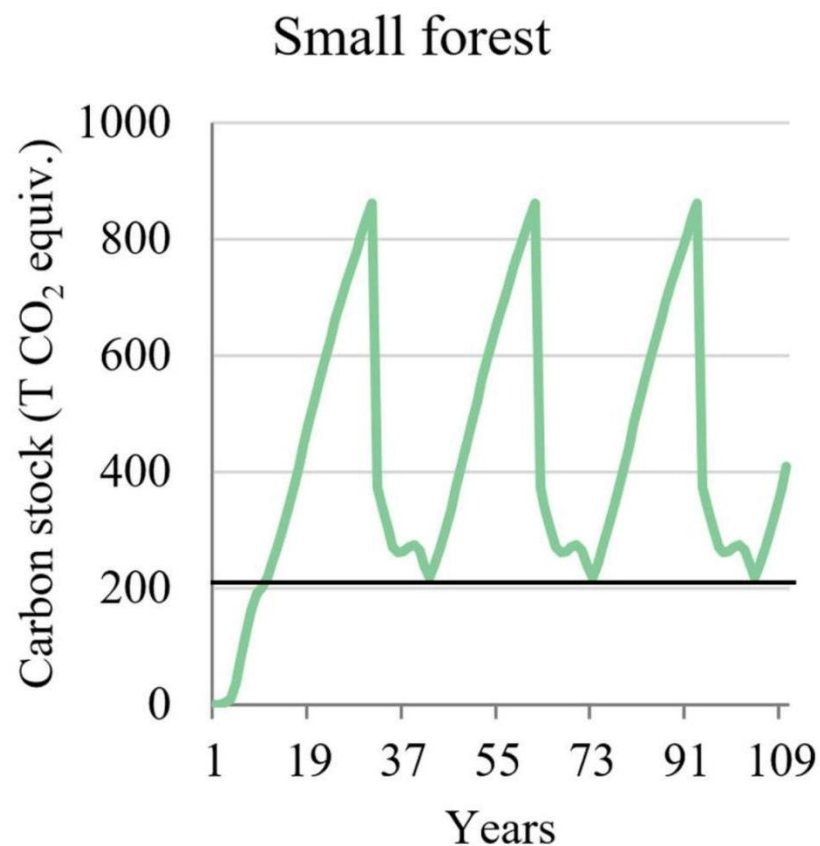
# Forest Age Class Distribution

**Figure 4-1:**  
**Western Southern North Island Modelled Age-class Distribution for All Species**



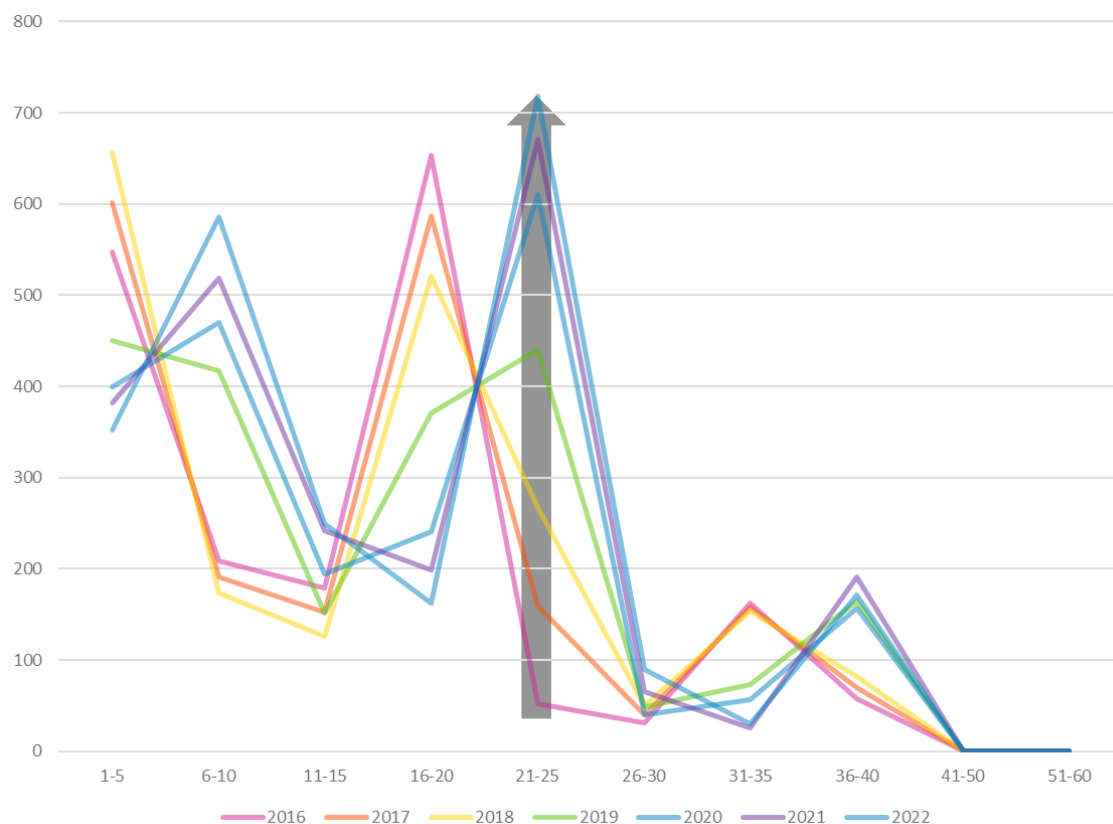
The change in 21-25 year-old forest stands is illustrative of the change in forestry from the 2016/17 baseline year.

# Forest Carbon Stock Cycle



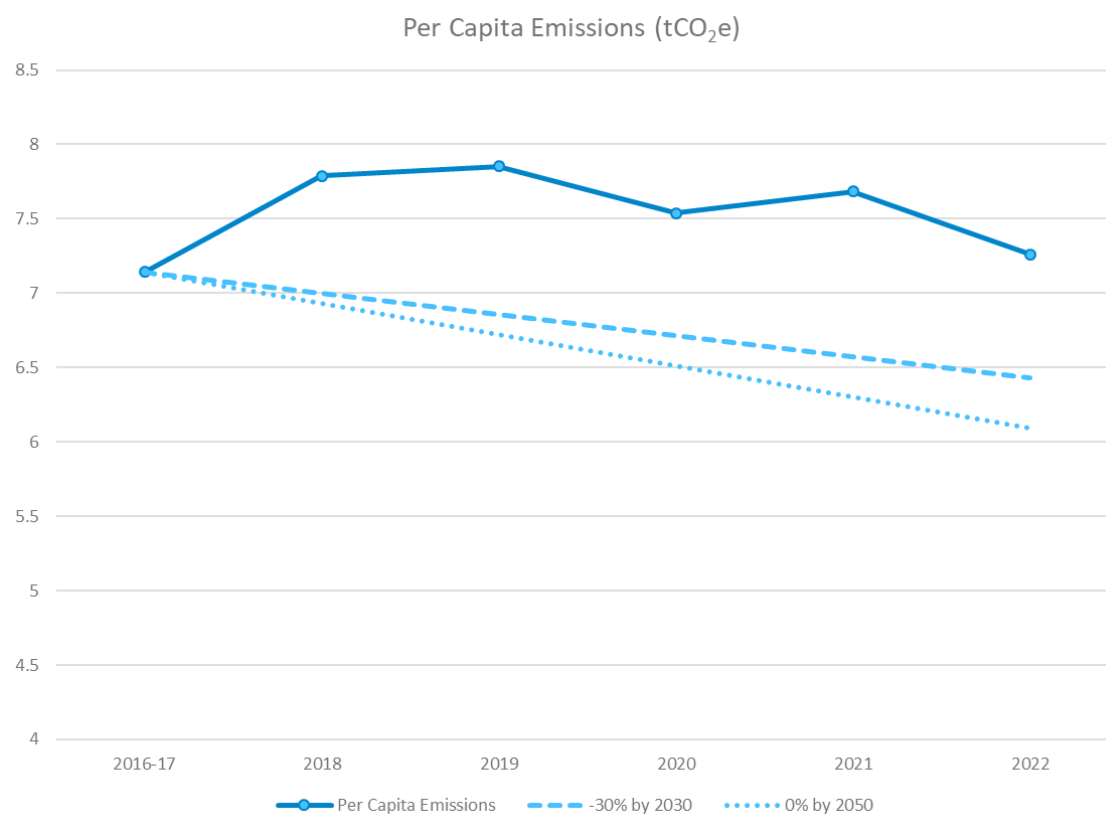
Typical *Pinus radiata* harvest cycles include regular peaks and troughs.

# Age Class Variance Over Time



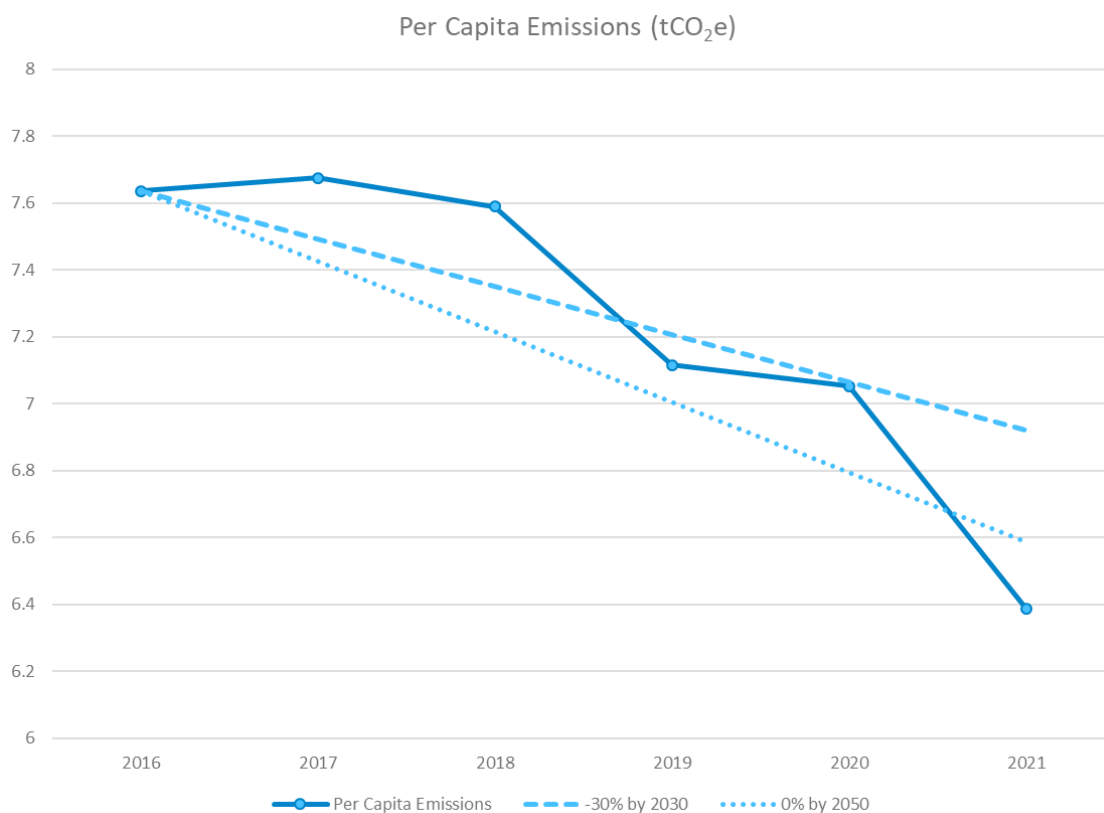
The change in 21-25 year-old forest stands is illustrative of the change in forestry from the 2016/17 baseline year.

# Per Capita Emissions



Per Capita emissions closely follow the overall emissions but with a more declining trend as opposed to a static trend.

# Per Capita with Averaged Harvest Emissions



Per Capita emissions closely follow the overall emissions but with a more declining trend as opposed to a static trend.