

CLIMATE ACTION AT SURREY SCHOOLS

CLIMATE CHANGE ACCOUNTABILITY REPORT

2023 CALENDAR YEAR

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Introduction

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Multiple cars became stranded in flood waters at King George Boulevard and 128 Street, near the foot of the Pattullo Bridge. Surrey is being hit hard by the atmospheric river on Saturday, Oct. 19, 2024. | Shane MacKichan/Contributed to Black Press Media

Surrey Schools and Climate Change

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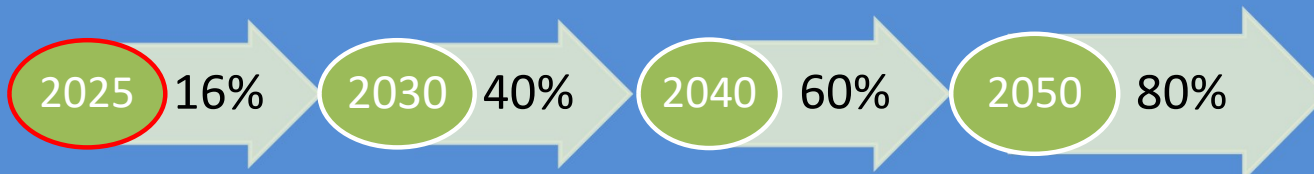
Taking Action on Climate Change

- Surrey Schools' board declared a climate emergency in 2023
- SD36 Board policy #6530: Energy Management & Conservation

The board's objectives are:

- Reduce operating costs through energy efficiency.
- Minimize greenhouse gas emissions.
- Minimize the environmental impact of district operations.

- Provincial targets set for public service organizations in legislation and policy

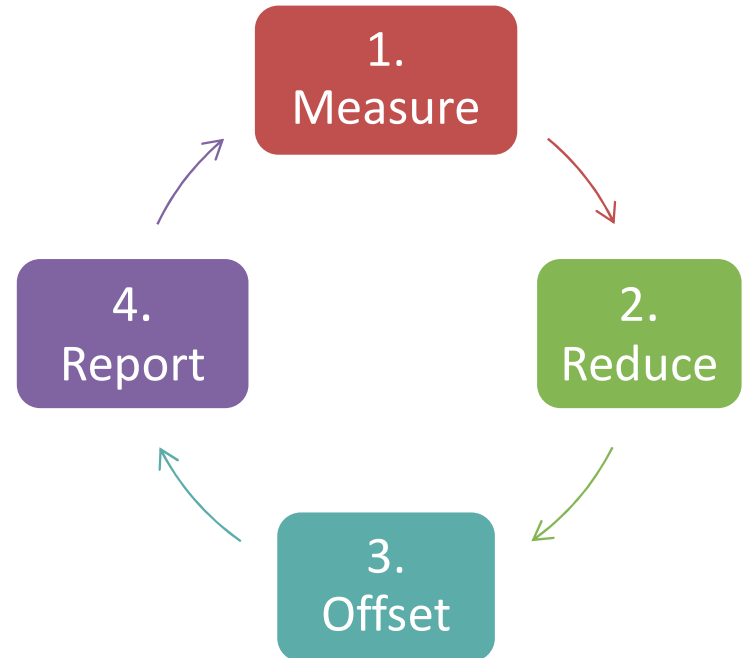


Climate Change Accountability Reporting

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Provincial Direction on GHG Management

1. Measure annual emissions
2. Reduce emissions through energy efficiency and technology
3. Achieve carbon neutrality each year
4. Report on annual GHG emissions



1. Measure

Greenhouse Gas Emission Tracking

Three sources of GHGs



88.7%

- 12% decrease from 2022



5.7%

- 7% decrease from 2022



5.6%

- 9% increase from 2022

2. Reduce Emissions: Office Paper

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Reducing Paper Use

- Analyze consumption patterns
- Encourage paperless processes
- Standard to purchase 30% recycled content paper

Benefits

- Helps achieve annual GHG target
- Reduces cost of annual carbon offsets
- Reduced costs for school budgets



2. Reduce Emissions: Fleet

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Surrey's Vehicle Fleet

- More than 150 white fleet and school buses

Reducing Vehicle Emissions

- Conducting a fleet electrification study
- Replacement vehicles often have better fuel economy
- Have added two more electric school buses for a total of four
- Improved vehicle route planning



2. Reduce Emissions: Buildings

New Builds, Additions, and Modulars



- Better insulation
- Window ratios
- Efficient equipment

Existing Building Retrofits



Electrify heating systems

- Optimize equipment operation
- Energy efficient HVAC retrofits

3. Offset Emissions

Achieving Annual Carbon Neutrality

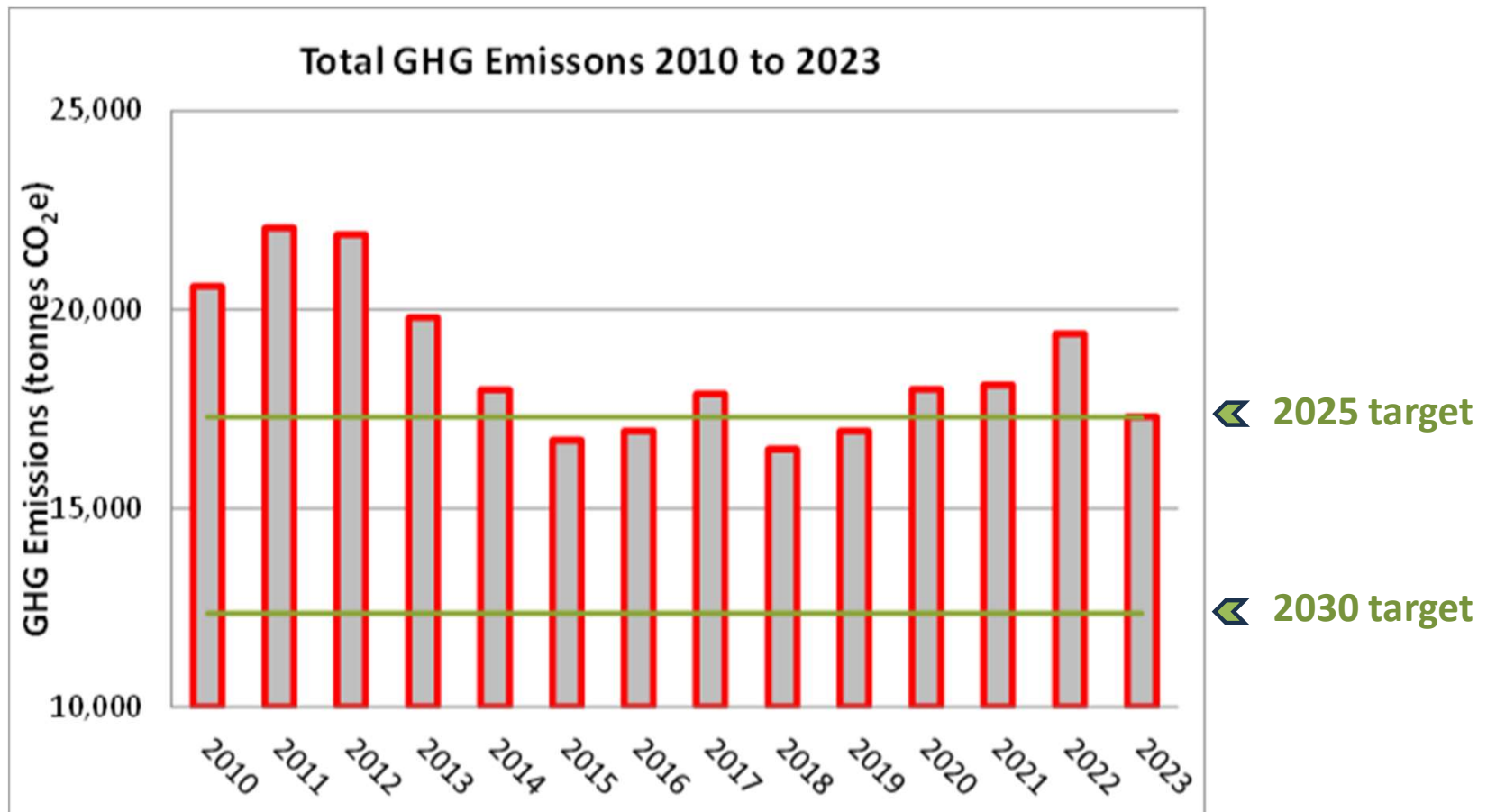
Carbon Offset:

Investment in external greenhouse gas reduction project(s) to compensate for the equivalent emissions produced by an organization

Reducing internal GHG emissions will decrease the quantity and cost of carbon offsets required

4. Report On Emissions

Total Emissions Trend



Financial Impacts

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Budget Risk from Fossil Fuel Use

Cost

- 2023/24 natural gas and propane costs were over \$3,500,000
- Fossil fuel price fluctuations exposes the annual utility budget to uncertainty

Carbon Neutrality

- Fossil fuel offset costs are over \$450,000 per year

Carbon Tax

- Carbon tax amount is estimated to triple to over \$2,000,000 by 2030

Weather

- Winter temperature variability exposes utility budget to higher costs

Questions?