How Are We Going to Develop a 10 Year Emissions Reduction Plan?

Excellent health and care for everyone, everywhere, every time.
SmartTool Data

GRE Offsets By Sector (tCO$_2$e)

- 1. Ministries: 10%-11%
- 2. Crown Sector: 12%-14%
- 3. Health Sector: 31%-34%
- 4. School Districts: 23%-25%
- 5. Post Secondary: 18%-21%
Health Sector
Total Offsets (tCO$_2$e)
Oh No a Target
How do we get from here to there?
Our Emissions Budget – tCO$_2$e

- 2007: 31,960 tCO$_2$e
- 2011: 35,260 tCO$_2$e
- 2016: 28,015 tCO$_2$e
- 2020: 21,413 tCO$_2$e
- 2030: 19,176 tCO$_2$e
- 2050: 6,392 tCO$_2$e
Working on Emissions Reductions
# How to Select the Best Projects

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Measure Life [yrs]</th>
<th>Sum of Total Utility Cost Savings [$]</th>
<th>Simple Payback [yrs]</th>
<th>Sum of Project Total Costs [$]</th>
<th>Cost /per tonne GHG</th>
<th>Environmental Value Over Project Life [$/tCO2]</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRGH - Steam Coil Conversion to Hot Water Coil</td>
<td>30</td>
<td>$30,649</td>
<td>2.8</td>
<td>$95,000</td>
<td>$707</td>
<td>$24</td>
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<tr>
<td>Exhause Air Hear Recovery in Amb Care &amp; Rehab (engineering only)</td>
<td>20</td>
<td>$17,357</td>
<td>2.4</td>
<td>$45,000</td>
<td>$945</td>
<td>$47</td>
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<tr>
<td>CPRC - Ventilation Upgrades</td>
<td>20</td>
<td>$11,500</td>
<td>5.0</td>
<td>$50,000</td>
<td>$1,431</td>
<td>$72</td>
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<tr>
<td>NRGH - Re-hab Building HVAC Replacement</td>
<td>20</td>
<td>$21,547</td>
<td>4.2</td>
<td>$95,000</td>
<td>$2,427</td>
<td>$121</td>
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<tr>
<td>YLRS - Kitchen Hood Demand Ventilation</td>
<td>20</td>
<td>$3,186</td>
<td>7.5</td>
<td>$25,000</td>
<td>$3,744</td>
<td>$187</td>
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<tr>
<td>NRGH - Boiler O2 Trim Control</td>
<td>20</td>
<td>$6,709</td>
<td>13.1</td>
<td>$95,000</td>
<td>$4,318</td>
<td>$216</td>
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<tr>
<td>EPLTC - Exhaust Air Heat Recovery</td>
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<td>$6,553</td>
<td>13.4</td>
<td>$95,000</td>
<td>$4,398</td>
<td>$220</td>
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<tr>
<td>NRGH - Kitchen Heat Recovery</td>
<td>20</td>
<td>$15,109</td>
<td>13.5</td>
<td>$220,000</td>
<td>$4,418</td>
<td>$221</td>
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</tbody>
</table>
Emissions vs Target vs Funding

Offsettable Emissions | Provincial Emissions Target | Business As Usual Path

CNCP Funded Emissions Reduction
Impact of Adding A Biomass Boiler

$5M Biomass Boiler +CNCP

Offsettable Emissions
Provincial Emissions Target
Business As Usual Path
Projected Emissions with Low Carbon Energy Plants [tCO2e]
Impact of Adequate Funding

Biomass + CNCP + Extra $200,000/year
It Can Be Done!