CLIMATE SUMMIT

WHAT IF IT'S A BIG HOAX AND WE CREATE A BETTER WORLD FOR NOTHING?

• ENERGY INDEPENDENCE
• PRESERVE RAINFORESTS
• SUSTAINABILITY
• GREEN JOBS
• LIVABLE CITIES
• RENEWABLES
• CLEAN WATER, AIR
• HEALTHY CHILDREN
• ETC. ETC.
WELCOME!

Goals for today:

1. How to achieve substantive GHG emissions reductions in the public sector?
2. How can CAS best facilitate for the “biggest bang for our buck”?
3. Lead to a “roadmap” for setting priorities
4. Provide info on various reduction technologies
A few introductions....

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CNG Team:

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- Ken Porter
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- Haydee Oord

Orest Maslany, Director, Carbon Measurement and Reporting Branch, SSBC (SMARTTool)
How do we get to substantive reductions?

CNG evolution...

What happened to the “Reductions Guide”?

.....So, lets looks at a few numbers
Public Sector Emissions from 2010-2013

<table>
<thead>
<tr>
<th>Year</th>
<th>Emissions (TCO2e)</th>
<th>Climate Normalized Emissions (TCO2e)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>812,948</td>
<td>861,129</td>
</tr>
<tr>
<td>2011</td>
<td>864,155</td>
<td>840,235</td>
</tr>
<tr>
<td>2012</td>
<td>834,573</td>
<td>838,007</td>
</tr>
<tr>
<td>2013</td>
<td>796,012</td>
<td>796,388</td>
</tr>
</tbody>
</table>
Public Sector Building Energy Consumption

- Building Energy Consumption (GJs)
- Climate Normalized Building Consumption (GJs)
Emissions by Scope, Normalized, 2010 - 2013

- Buildings Weather Normalized (TCO2e)
- Fleet (TCO2e)
- Paper (TCO2e)
- Travel (TCO2e)
Public Sector Fleet Fuel Consumption
2010 - 2013

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas (kg)</td>
<td>36,571</td>
<td>67,290</td>
<td>117,711</td>
<td>92,297</td>
</tr>
<tr>
<td>Propane (L)</td>
<td>1,187,854</td>
<td>1,051,243</td>
<td>962,933</td>
<td>694,215</td>
</tr>
<tr>
<td>Diesel (L)</td>
<td>44,731,237</td>
<td>46,489,434</td>
<td>47,814,878</td>
<td>46,092,211</td>
</tr>
<tr>
<td>Gasoline (L)</td>
<td>20,634,704</td>
<td>19,199,789</td>
<td>21,517,671</td>
<td>21,252,595</td>
</tr>
</tbody>
</table>
Emissions for the Public Sector in TCO2e

- Mobile Gasoline: 89,615 (11%)
- Mobile Diesel: 42,917 (5%)
- Stationary Electricity: 111,348 (14%)
- Stationary Natural Gas: 30,866 (4%)
- Everything Else: 521,266 (66%)
Progress in GHG Reductions

% change in GHG emissions from 2010 baseline year

Year


Core Government
Health Authorities
Crowns
Post Secondary
K-12
Whole Public Sector
Provincial Targets

-2.40% -4.00% -6.00% -8.40% -11.20% -14.40% -18.00% -21.66% -25.38% -29.16% -33.00%

0% 5% 10% 15% 20% 25% 30% 35% 40%
So how do we get greater reductions?

- Natural gas – efficiencies, reductions
- Diesel
- Marine diesel, heating oil
• Our current path won’t get us to 33%
• CNCP $ help, but only for small projects
• Some organizations have made substantive reductions already
First Question is;

• Are your systems working correctly?

• DDC, controls, monitoring

• Can be up to 15% improvement

• End of life cycles?

• New efficient boilers?

• Or...
Alternatives:

• Biomass
• Solar PV
• Heat Pumps
• District Energy
Other factors to consider:

• Can we work with local governments?

• What is the capacity to undertake these initiatives?

• Are energy studies adequate?

• What can we accomplish with CNCP $$?
How can CAS best facilitate?

- Procurement
- Reductions Guide
- Funding
- Targeted approach
Procurement opportunities:  
LED Street Lights Across B.C.

Province, BC Hydro Power Smart and local governments collaborating to offer suite of tools and services to assist with the adoption of LED Street Lights.

- Guidance document - "How to Purchase"
- Financial Evaluation Tool - calculate pay back period and report for a business case
- Provincial Corporate Supply Arrangement
  - Access to pre-qualified lighting design consultants for Public Sector Organizations
  - Access to pre-qualified LED roadway lighting products
- Case studies, workshops and online training
Reductions Guide

• Guide to help PSOs with types of reductions, potential for reductions, successful projects done by others, resources, funding opportunities
Funding

- Identify funding sources
- Treasury Board submission
- Capital Asset Management framework
- ??
Targeted Approach

- Set targets for all PSOs
- Set targets for sectors
- Set targets based on ownership
- Set targets based on energy source
Feedback required!!