

PCP PROGRAM MILESTONE 2

SETTING A GREENHOUSE GAS
REDUCTION TARGET

PARTNERS FOR CLIMATE PROTECTION (PCP) PROGRAM

- Network of Canadian municipalities committed to reducing greenhouse gases (GHGs) and acting on climate change
- Parkland County joined in May 2013
- Committed to completing 5 milestones:
 - Milestone 1: Create a GHG inventory and forecast
 - Milestone 2: Set an emission reduction target
 - Milestone 3: Develop a Local Action Plan for reduction
 - Milestone 4: Implementation of the action plan
 - Milestone 5: Progress monitoring and reporting results

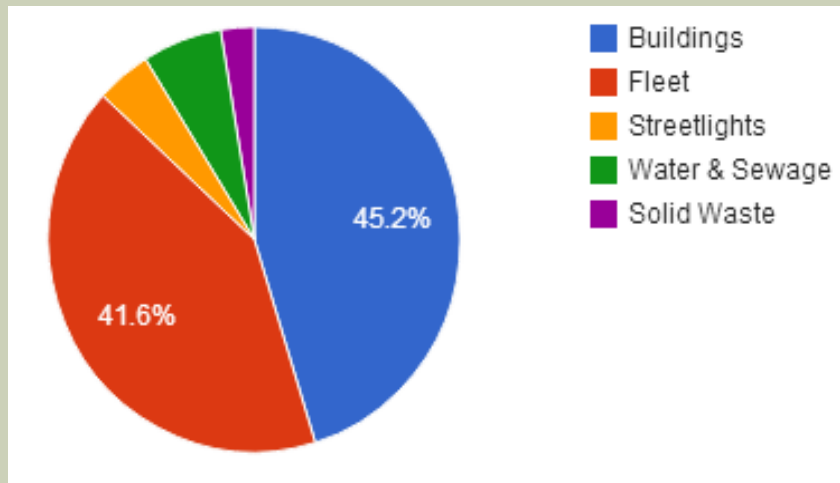
MILESTONE 1

- Committed to completing 5 milestones:
 - **Milestone 1: Create a GHG inventory and forecast**
- The Federation of Canadian Municipalities (FCM), the administrator of the PCP program, accepted Parkland County's 2010 inventory as a baseline in August 2013.

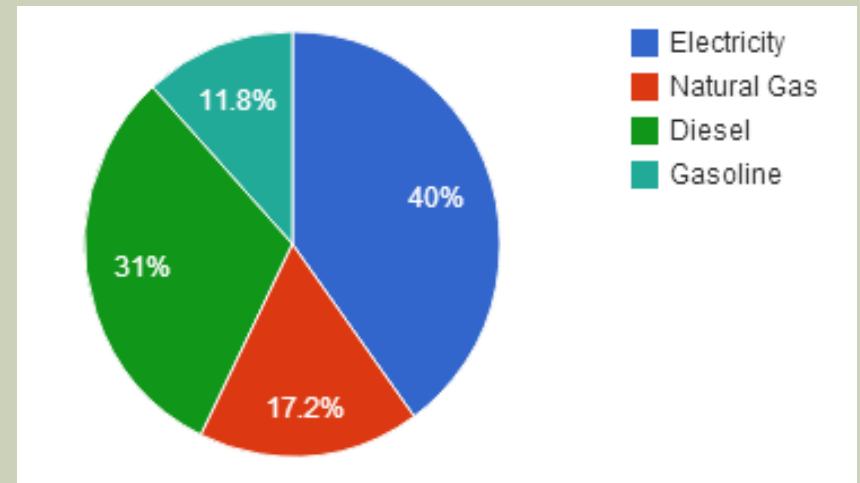
CORPORATE EMISSIONS 2010

Results:

By Sector



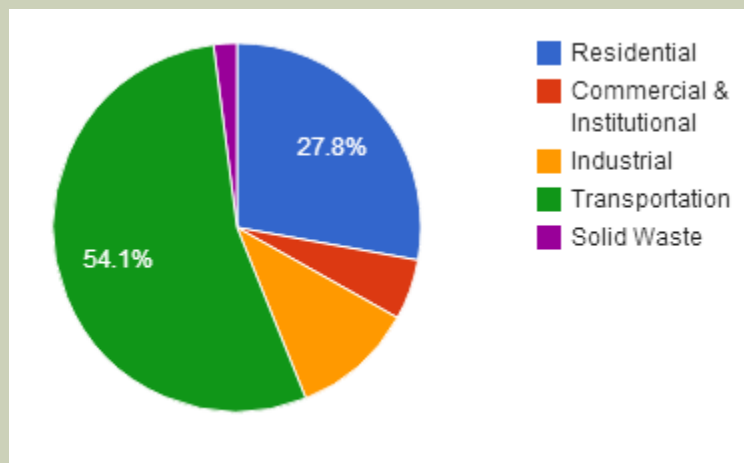
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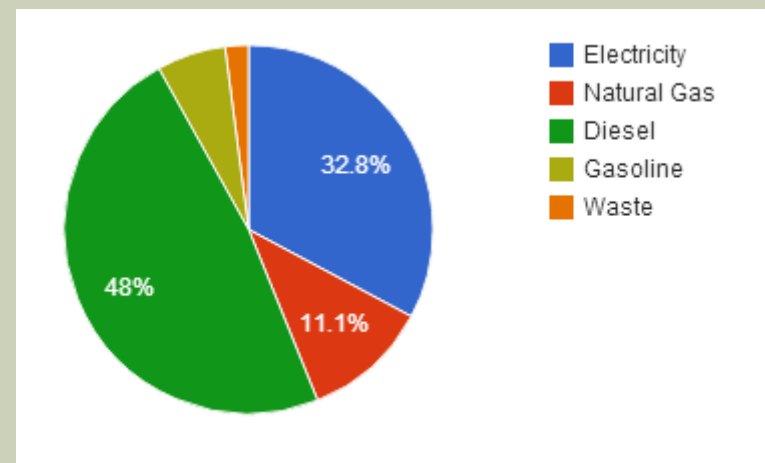
Total Emissions: **5443** tonnes

COMMUNITY EMISSIONS 2010

By Sector



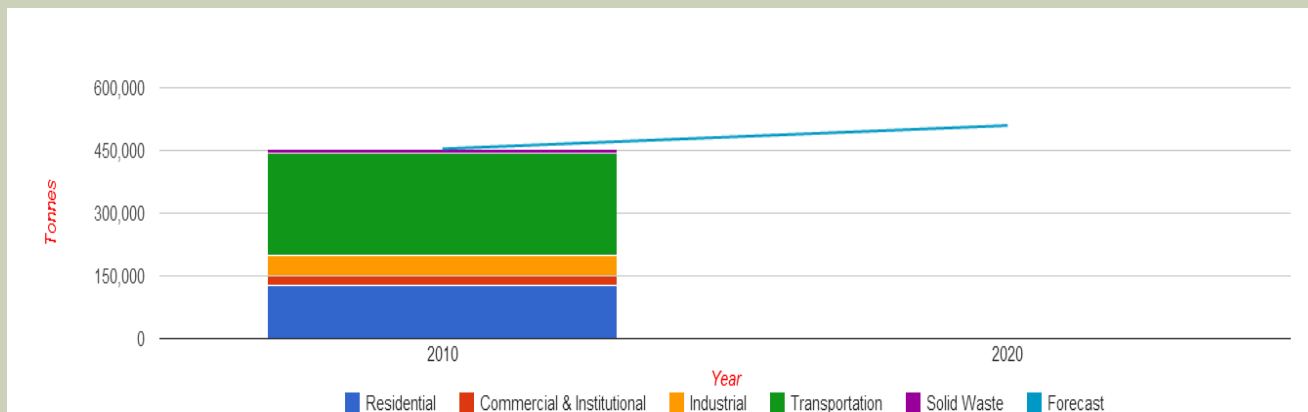
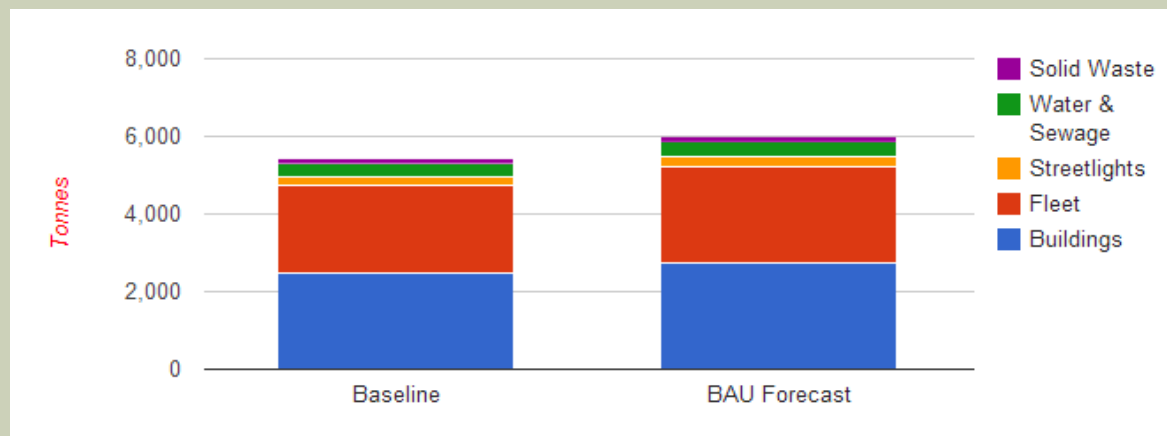
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Total Emissions: **453,860** tonnes

BUSINESS AS USUAL FORECAST FOR 2020

Corporate Emissions



Community Emissions

MILESTONE 2

- Committed to completing 5 milestones:
 - Milestone 1: Create a GHG inventory and forecast
 - **Milestone 2: Set an emission reduction target**
- Targets set the basis for developing an action plan & tracking progress.
- Targets are expressed as a % reduction in emissions from the baseline year (2010)

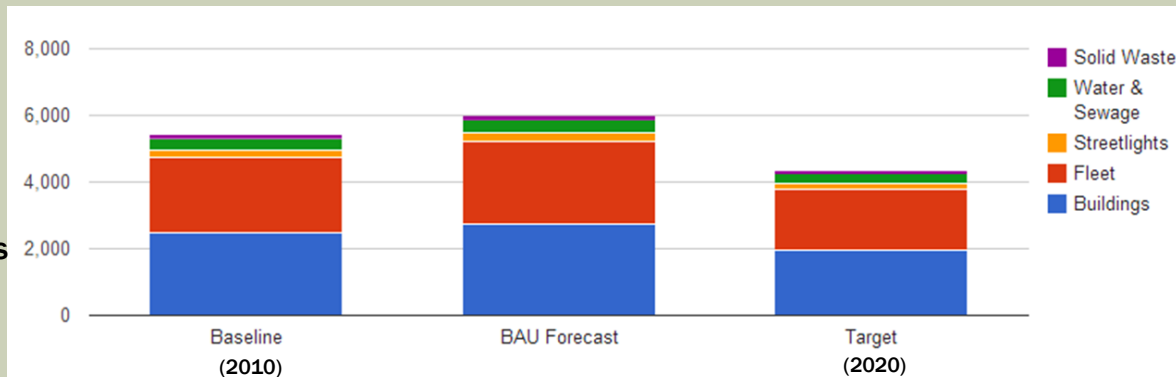
EAC RECOMMENDED TARGETS

- **The Environmental Advisory Committee (EAC) recommends the following targets be adopted by Council:**
- **Community emissions:**
 - 6% reduction by 2020 (10 years)
 - 10% reduction by 2025 (15 years)
- **Corporate operation emissions:**
 - 25% reduction from 2010 levels by 2020 (10 years)
 - 40% reduction from 2010 levels by 2025 (15 years)

FCM SUGGESTED TARGETS

For Corporate:

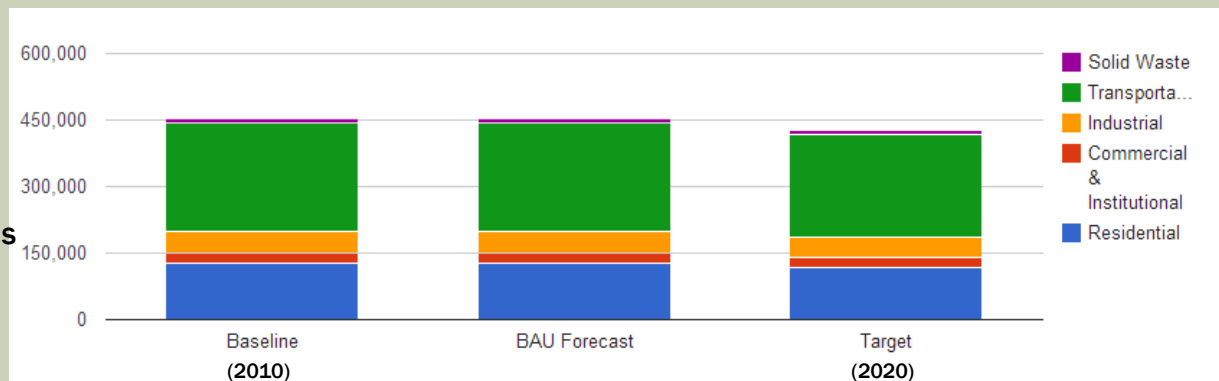
Parkland County's
GHG
Emissions
(t)



**20% reduction
over 10 years**

For Community:

Parkland County's
GHG
Emissions
(t)



**6% reduction
over 10 years**

EAC RECOMMENDED TARGETS

- The EAC's recommended targets are based on:
 - Use of the general targets recommended by the FCM to all municipalities as a baseline or starting point.
 - Review of targets set by municipalities similar in: size, density, location, & emission profile.
 - Review of Parkland County's current and possible GHG reduction initiatives
 - Calculated potential reduction for plausible initiatives

MUNICIPAL TARGET COMPARISON

Municipality	Population	Density	Municipal Baseline Emissions (t/yr)	Municipal Target	Community Baseline Emissions (t/yr)	Community Target
Parkland County	30568	0.126 ppl/ha	5443		453,860	
British Columbia						
District of Mission	31272	2.9ppl/ha	2526	10% in 7 yrs	236,261	20% in 13 yrs
Sunshine Coast	26000	0.069ppl/ha	1806	27% in 8yrs	409,000	7% in 24 yrs
Port Coquitlam	51257	10.34		20% in 10 yrs		8% in 10 yrs
Penticton	43313	0.246	2499	20% in 11 yrs	231,800	5% in 13yrs
Alberta						
Stony Plain	10544	4.227	3010	20% in 10 yrs	86,274	6% in 10 yrs
Spruce Grove	15963	8.086	5275	20% in 17 yrs	248,870	6% in 17 yrs
St.Albert	60138	16.474	30,716	20% in 12 yrs	711,303	10% in 12 yrs
Ontario						
Stratford	29676	11.46	6606	20% in 10yrs	382,395	6% in 10 yrs
Caledon	39975	0.864	5560	20% in 7 yrs	326,000	6% in 7 yrs
Scugog	20173	0.454	2209		152,682	
Uxbridge	19169	0.49	2378		151,414	
North Durham	51321	0.389	6047	28% in 7 yrs	394,847	8% in 10 yrs
Manitoba						
Brandon	46061	5.991	4153	20% in 10 yrs	325,240	6% in 10 yrs
Nova Scotia						
Strait-Highlands (RDA)	29718	0.059	4866	21% in 10 yrs	469,789	18% in 10 yrs
New Brunswick						
Fredericton	47560	3.867	13007	20% in 10 yrs	647578	6% in 10 yrs
Newfoundland						
Conception Bay South	19772	4.192	1403	20% in 10 yrs	143753	6% in 10 yrs

Because of their proximity to Parkland County, collaboration with Stony Plain and Spruce Grove is essential.

MUNICIPAL TARGET COMPARISON

Corporate Targets	
10% in 7 yrs	
27% in 8yrs	
20% in 10 yrs	
20% in 11 yrs	
20% in 10 yrs	
20% in 17 yrs	
20% in 12 yrs	
20% in 10yrs	
20% in 7 yrs	
28% in 7 yrs	
20% in 10 yrs	
21% in 10 yrs	
20% in 10 yrs	
20% in 10 yrs	

Community Targets	
20% in 13 yrs	
7% in 24 yrs	
8% in 10 yrs	
5% in 13yrs	
6% in 10 yrs	
6% in 17 yrs	
10% in 12 yrs	
6% in 10 yrs	
6% in 7 yrs	
8% in 10 yrs	
6% in 10 yrs	
18% in 10 yrs	
6% in 10 yrs	
6% in 10 yrs	

- Most municipalities choose to adopt the FCM targets of 20% for corporate and 6% for community sectors. This is mostly because of lack of further investigation into possible targets.
- Only one municipality had a target significantly lower (indicated by a blue box).
- Several municipalities chose to set progressive targets (indicated by red boxes).

REASONS FOR PROGRESSIVE TARGETS

- Progressive targets are a political statement of leadership in supporting environmental sustainability and reducing climate change.
- Reasons for setting progressive targets
 - Inventoried current initiatives
 - Inventoried plausible initiatives
 - Calculated potential reductions for initiatives
 - Estimated community potential participation
 - Assessed plausible policy instruments
 - Assessed tools available for implementation

GHG REDUCTION INITIATIVES

Corporate Initiatives

■ Current

- Building energy efficiency
- Anti-idling campaign
- LED street lighting

■ Possible

- Vehicle right-sizing
- Organic waste diversion
- Alternative energy use
- Renewable energy certificates
- Reduced fuel use
- Water Conservation

Community Initiatives

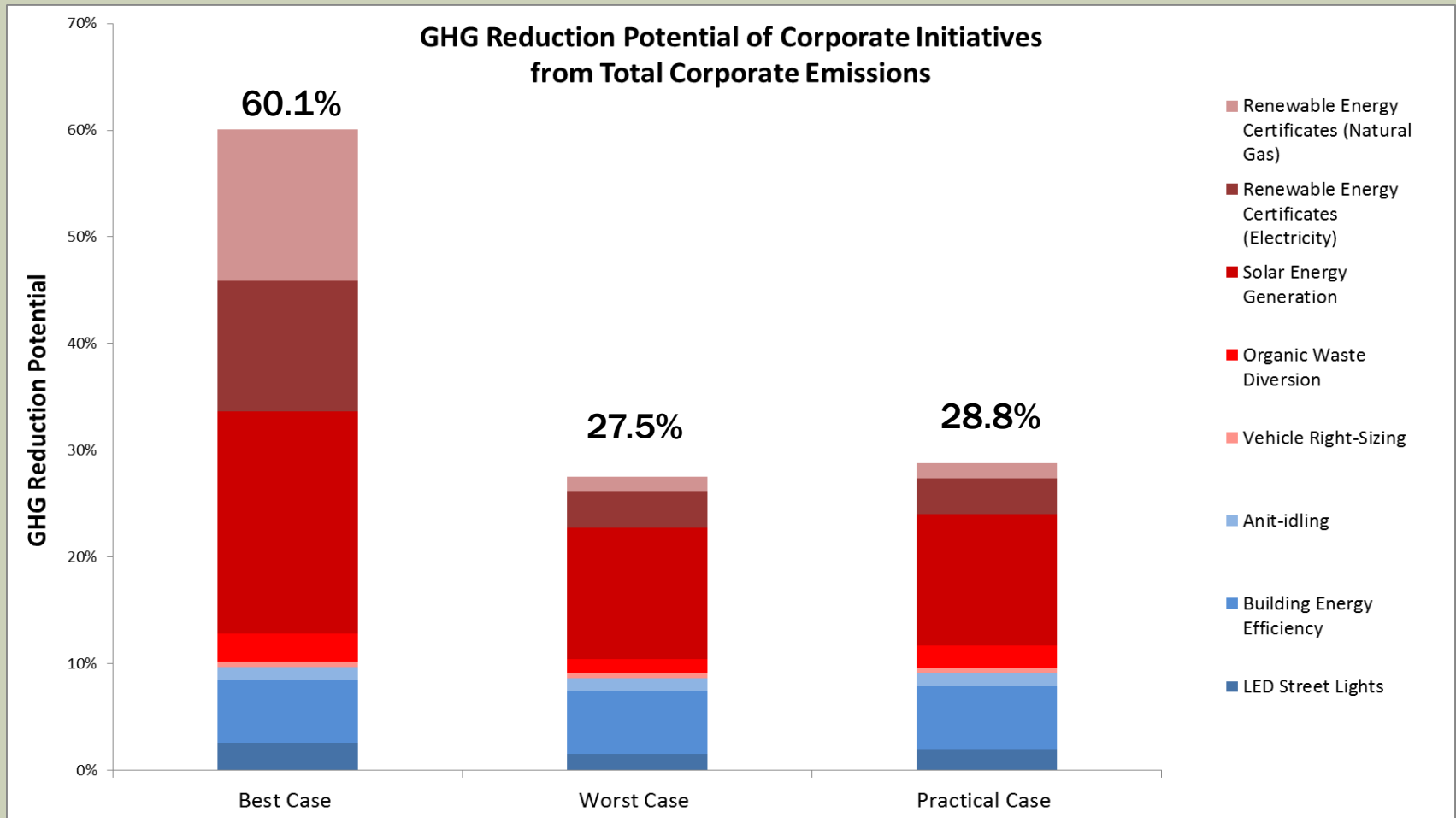
■ Current

- Carpooling
- Organic waste diversion

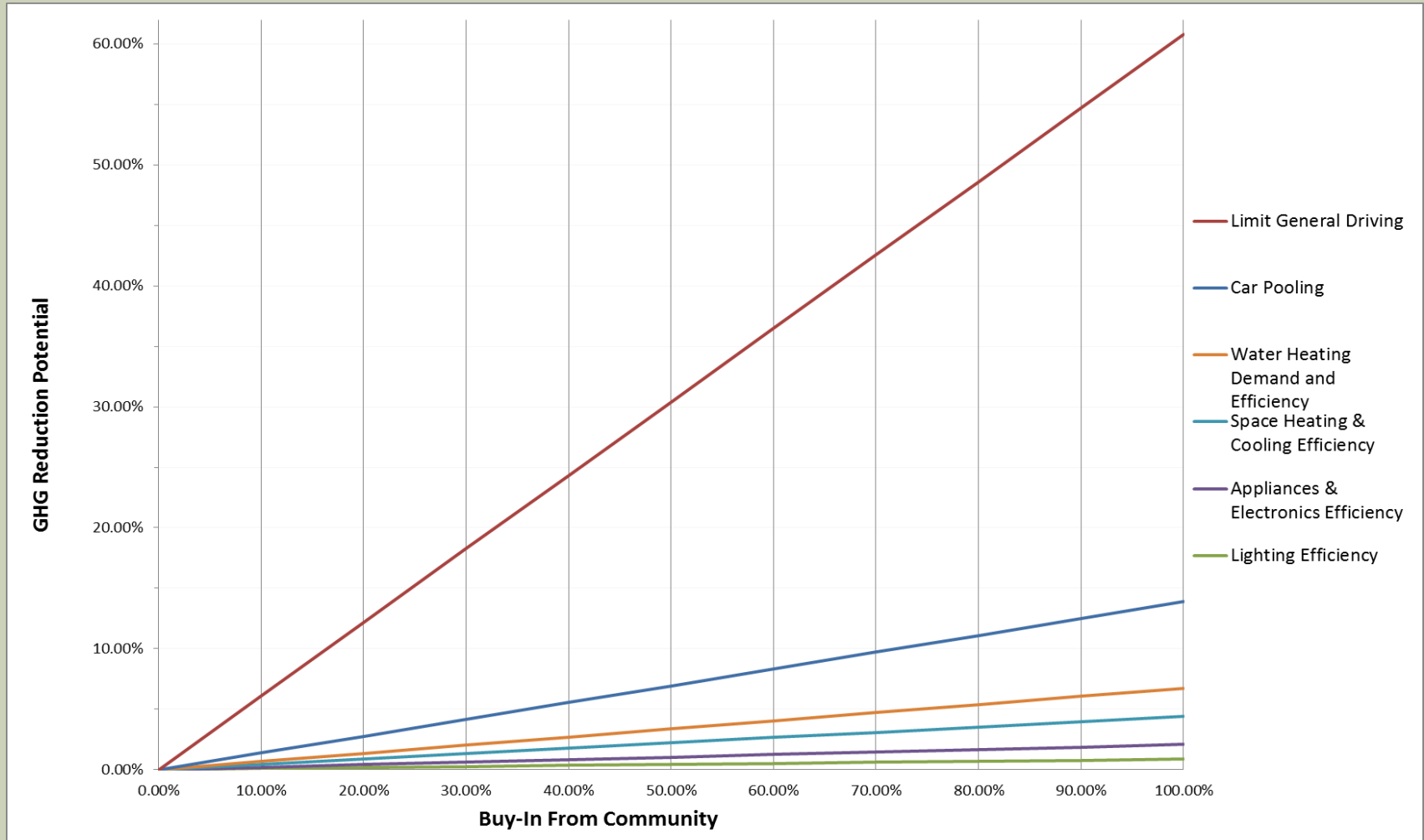
■ Possible

- Anti-idling
- Reduced vehicle use
- Residential energy efficiency
- Renewable energy certificates
- Alternative energy sources
- Commercial & Industrial 'Greening'

POTENTIAL CORPORATE REDUCTIONS



POTENTIAL COMMUNITY REDUCTIONS

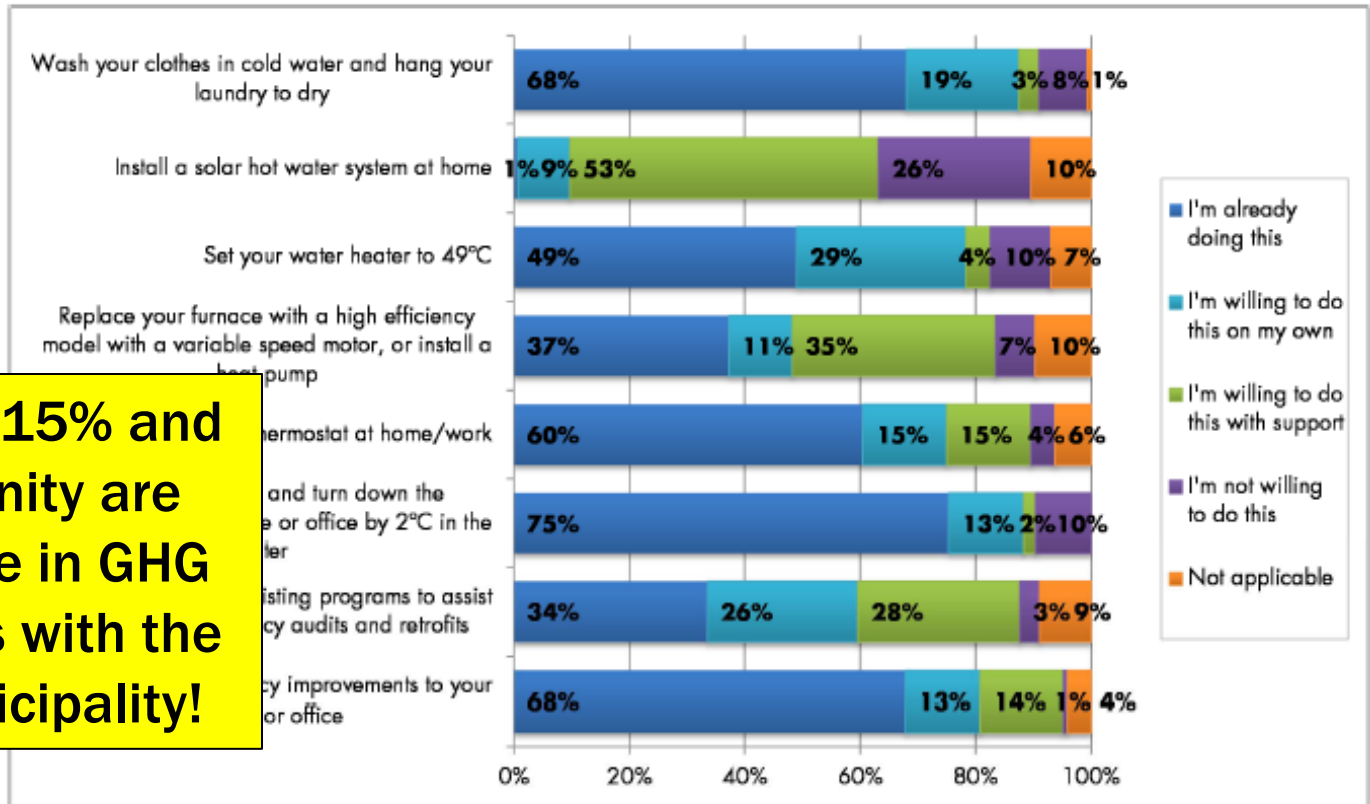
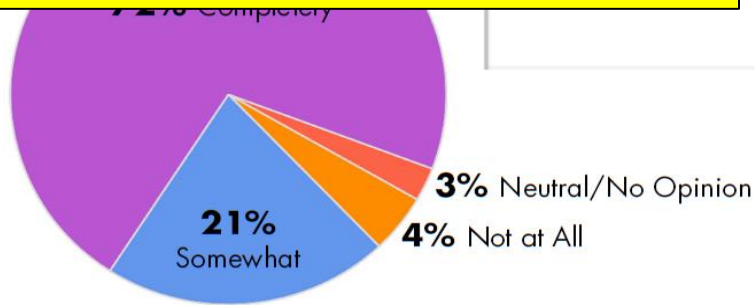


MISSION, B.C.'S COMMUNITY PARTICIPATION SURVEY

Support of reduction initiatives



Indicates between 15% and 62% of the community are willing to participate in GHG reduction initiatives with the support of the municipality!



Support of GHG reduction



NEXT STEPS-MILESTONE 3

- Many tools are available for implementing GHG reduction initiatives at the corporate and community level.
- Both the initiatives and tools chosen by Parkland County will be specifically outlined in:
 - Milestone 3: Develop a Local Action Plan for reduction

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