

# Storytelling for Engineers (GHG Edition)

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**Achieve net-zero greenhouse gas emissions and sourcing net-zero energy from renewable sources for the community of Regina by 2050.**



# Where to start?



# We have a corporate inventory, lets start there!

City Energy Consumption		2019		2020		% Diff	
	Kwh	TCO2e	Kwh	TCO2e	Kwh	TCO2e	
Gasoline	18,590,883	4,919	16,441,104	4,339	-12%	-12%	
Diesel	53,420,481	14,555	46,156,335	12,571	-14%	-14%	
RNG	11,070,277	313	5,228,599	371	-53%	19%	
Propane	549,218	123	451,205	101	-18%	-18%	
Electricity	68,468,532	44,629	65,605,960	34,733	-4%	-22%	
Natural Gas	91,546,942	21,264	96,543,464	23,442	5%	10%	
<b>Total</b>	<b>243,646,332</b>	<b>85,802</b>	<b>230,426,668</b>	<b>75,558</b>	<b>-5%</b>	<b>-12%</b>	
City Energy Consumption		2019		2020		% Diff	
	Kwh	TCO2e	Kwh	TCO2e	Kwh	TCO2e	
WwWTP	40,371,412	13277	37,584,575	12,296	-7%	-7%	
BPWTP	33,515,300	17350	33,972,329	14,251	1%	-18%	
Fleet	72,151,544	19505	62,670,345	16,927	-13%	-13%	
Facilities	97,608,076	35670	96,199,420	32,084	-1%	-10%	
<b>Total</b>	<b>243,646,332</b>	<b>85,802</b>	<b>230,426,668</b>	<b>75,558</b>	<b>-5%</b>	<b>-12%</b>	
City Energy Consumption		2019		2020		% Diff	
	Kwh	TCO2e	Kwh	TCO2e	Kwh	TCO2e	
Fleet	72,151,544	19,505	62,670,345	16,927	-13%	-13%	
Facilities	171,494,788	66,297	167,756,323	58,631	-2%	-12%	
<b>Total</b>	<b>243,646,332</b>	<b>85,802</b>	<b>230,426,668</b>	<b>75,558</b>	<b>-5%</b>	<b>-12%</b>	
	LFGTE (Kwh	WWTP (m3)	WWTP (Kwh	Total KWh	KWh/1 house	Total house powered	
Total Energy Generated 2019	754,360	1,257,986	11,070,276.80	11,824,636.80	7,200	1642.310667	
Total Energy Generated 2020	1,568,830	594,159	5,228,599.20	6,797,429.20	7,200	944.0873889	

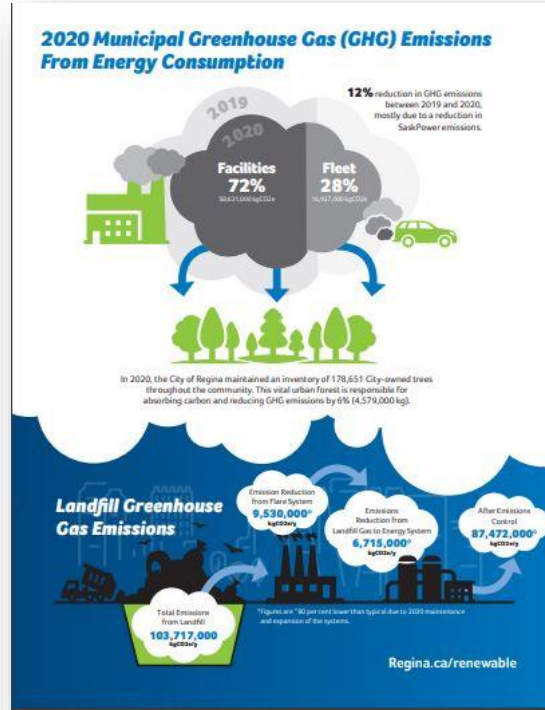
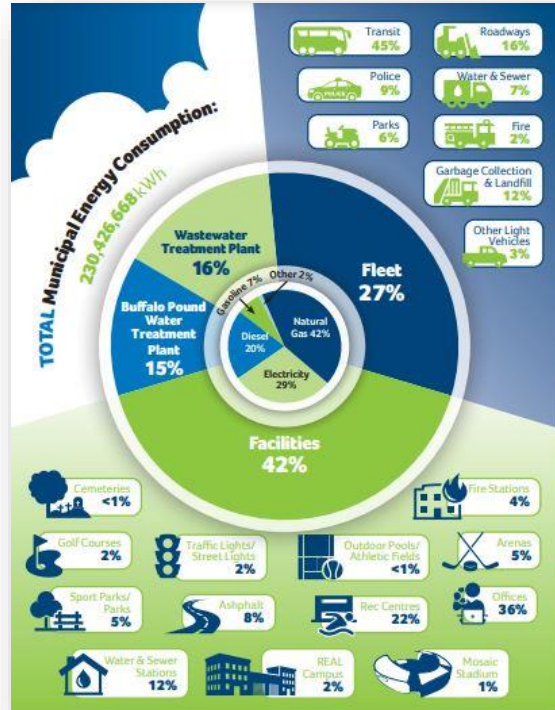


**EXCEL REPORT? SOUNDS LIKE  
FUN!**

**FALSE. IT'S SUCKING THE LIFE AND  
SOUL OUT OF ME**

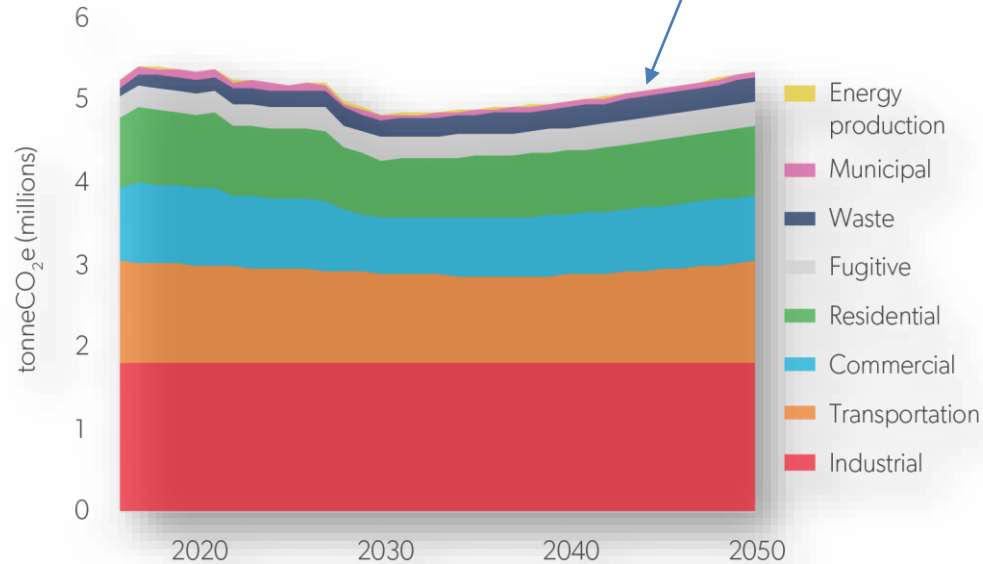
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# That's Better



# Problem

This is City of Regina Municipal Emissions  
(Teeny, tiny pink line)



**A whopping 1.7% of community emissions!**

**So, it doesn't matter**



**Or does it????**



# How can a City drive change when they don't have agency?



**Lead by example and show what is possible.**





**We need to get better at telling the story, not just supplying the data.**

**We need to tell residents and decision makers what matters to them, not what matters to us.**



**This is how we gain buy in, earn trust and make change.**

**[Regina.ca/renewable](http://Regina.ca/renewable)**

**Regina.ca**

