

WAEES Clean Fuel Standard Modelling: Charts / Tables

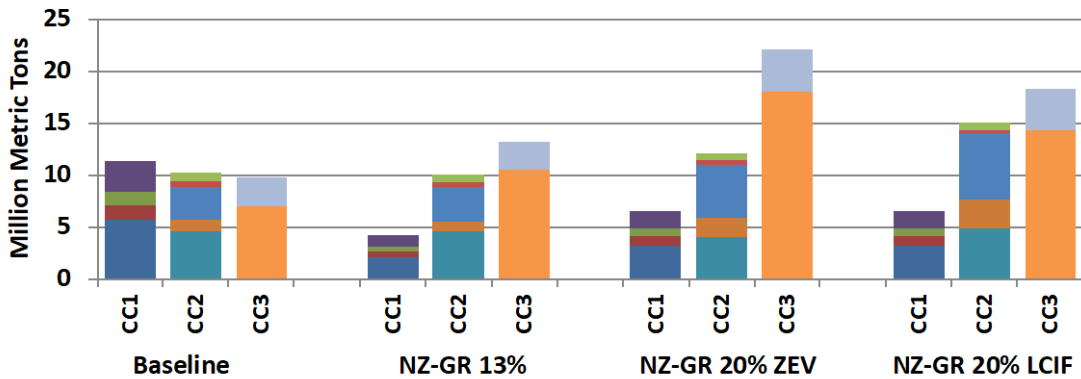
For a full description of the modelled scenarios, please see [The Implications of Canada’s Proposed CFS Program for Canadian Biofuels and Biofuel feedstocks 2021](#). Contact Tim Auger, Director of Research, tauger@advancedbiofuels.ca for the underlying data tables and charts.

Credit Creation Assumptions in 2030

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Category	Baseline		NZ-GR 13%		NZ-GR 20% LCIF		NZ-GR 20% ZEV	
	million credits	% of obligation	million credits	% of obligation	million credits	% of obligation	million credits	% of obligation
Approximate obligation (credits required)	28.2		28.2		43.4		43.4	
Process Improvement Credits CC1	11.3	40.1%	4.2	15.0%	6.5	15.0%	6.5	15.0%
Gaseous and Solid Credits (cross-stream) Flexibility	2.8	10.0%	2.8	10.0%	4.3	10.0%	4.3	10.0%
Compliance Fund Flexibility	model		model		model		model	
Sub-total (all non-CC2/3 credits) CC1 + Flex	14.1	50.1%	7.1	25.0%	10.8	25.0%	10.8	25.0%
ZEV credit generation LD CC3	1.8	6.4%	1.6	5.6%	2.3	5.4%	3.5	8.1%
ZEV credit generation MD/HD CC3	5.2	18.5%	8.9	31.5%	12.0	27.7%	14.5	33.4%
Emerging Tech credit generation CC3	0	0%	0	0%	0	0%	0	0%
Sub-total CC3	7.0	24.8%	10.5	37.1%	14.3	33.1%	18.0	41.5%
Gasoline pool CC2	model		model		model		model	
Diesel pool CC2	model		model		model		model	
Sub-total (balance of credits available for CC2) CC2	7.1	25.1%	10.7	37.9%	18.2	41.9%	14.5	33.5%

2030 CFS Credit Generation

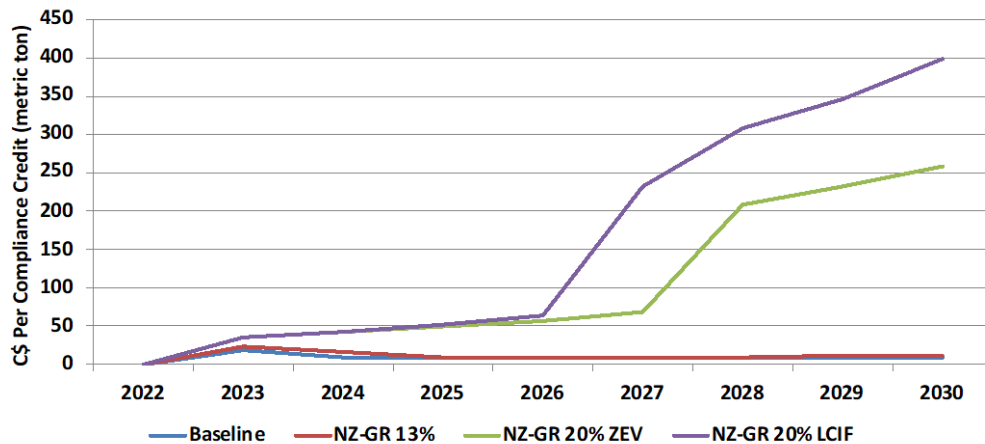


CC1		CC2		CC3	
CCS	Ethanol	Propane	Natural Gas	Electric Vehicles	Emerging Tech Credits
Upstream Improvements	Methyl Ester Biodiesel	Renewable Hydrocarbon Fuels	Pyrolysis Oil	Cross Stream Credits	
Reductions in Refineries	Sustainable Aviation Fuel				
Methane Reductions					

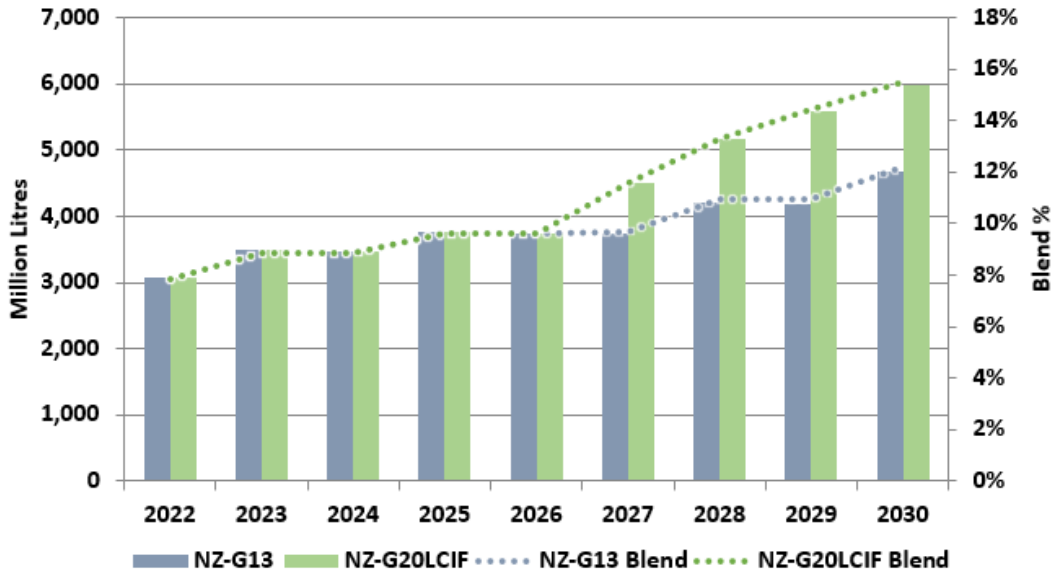
Biofuels Impacts by scenario

	Scenarios			
	Baseline	NZ-GR 13%	NZ-GR 20% ZEV	NZ-GR 20% LCIF
<i>million metric tons in the year 2030</i>				
Non-Biofuel Compliance Credits	21.1	17.5	28.6	24.8
<i>growth from 2022 to 2030 in million liters</i>				
Biodiesel				
Domestic Production	189	151	238	379
% change	55%	44%	70%	111%
Imports	-23	-32	280	512
% change	-6%	-8%	70%	128%
Renewable Hydrocarbon Fuels				
Domestic Production	828	845	1,697	2,148
Imports	-29	-29	37	75
% change	-7%	-7%	9%	19%
Ethanol				
Domestic Production	1,757	1,756	1,611	2,630
% change	92%	92%	84%	137%
Imports	-172	-171	118	268
% change	-14%	-14%	10%	22%
<i>volumetric percent blend rates in the year 2030</i>				
Ethanol Blend Rate	12.2%	12.2%	12.6%	15.5%
Biomass Based Diesel Blend Rate	5.4%	5.4%	9.6%	12.2%
Biodiesel Blend Rate	1.4%	1.3%	2.6%	3.7%
Renewable Diesel Blend Rate	4.0%	4.0%	7.0%	8.4%

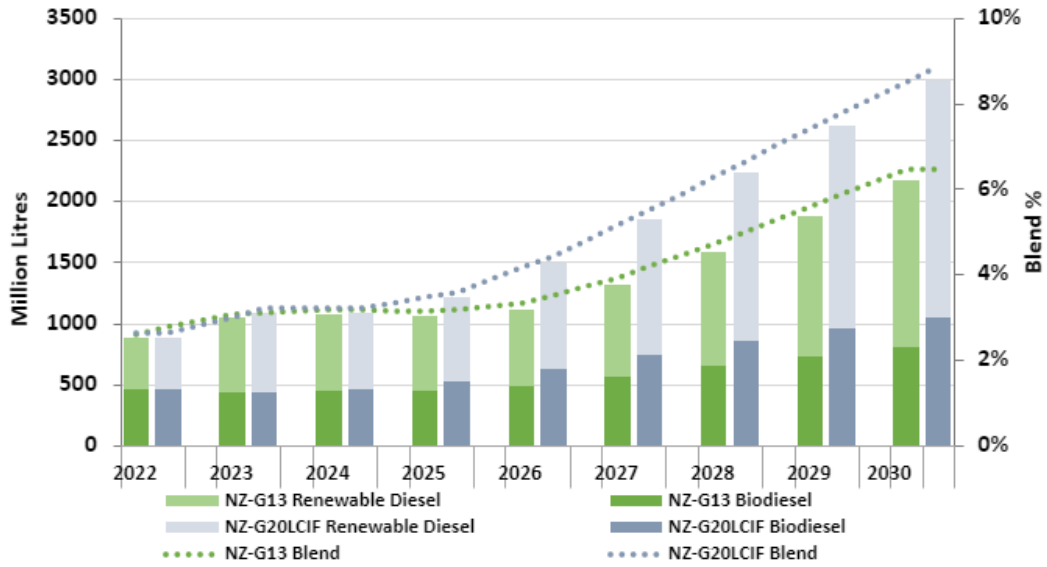
Canada CFS: Renewable Fuel Credit Price



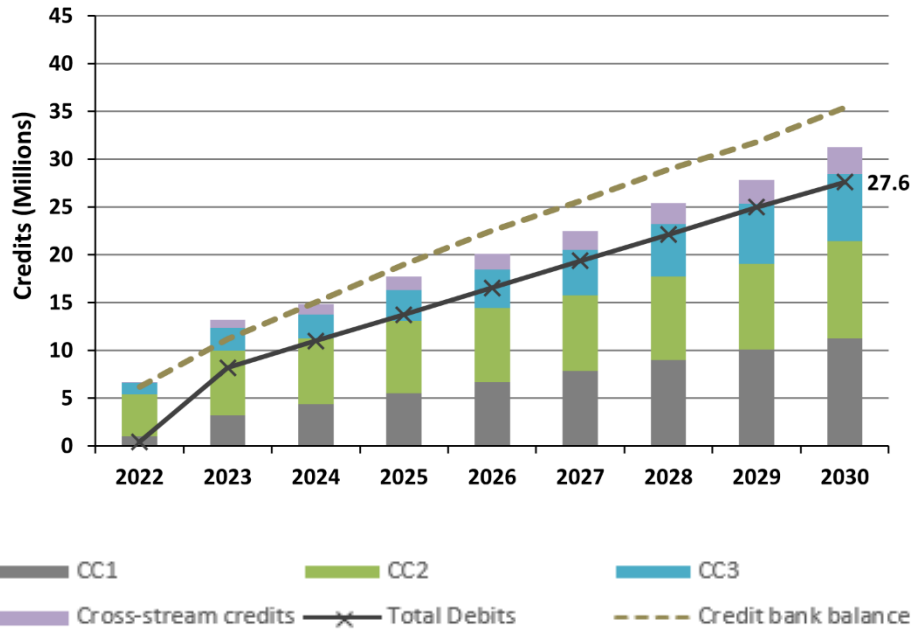
Gasoline Pool LCIF Blending



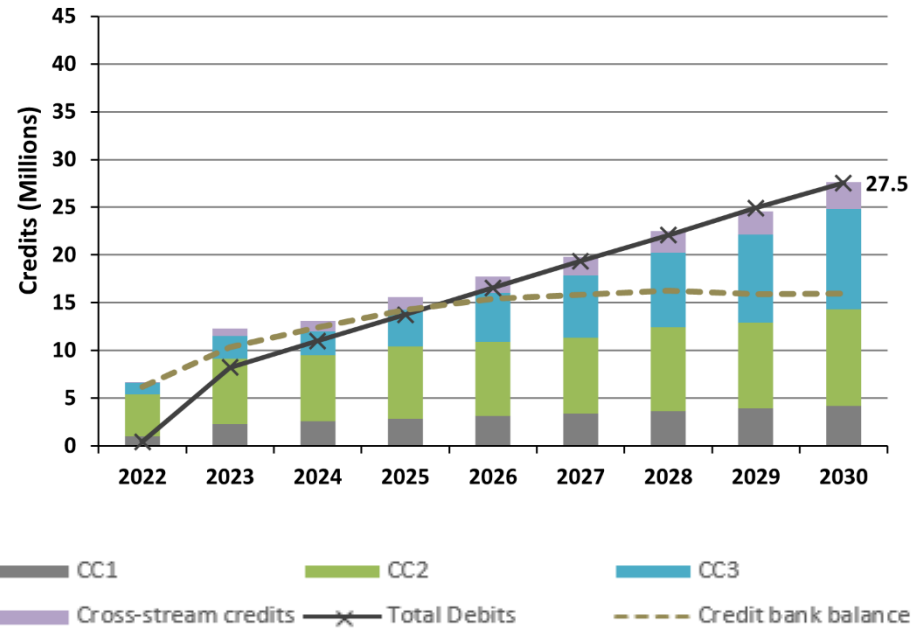
Diesel Pool LCIF Blending



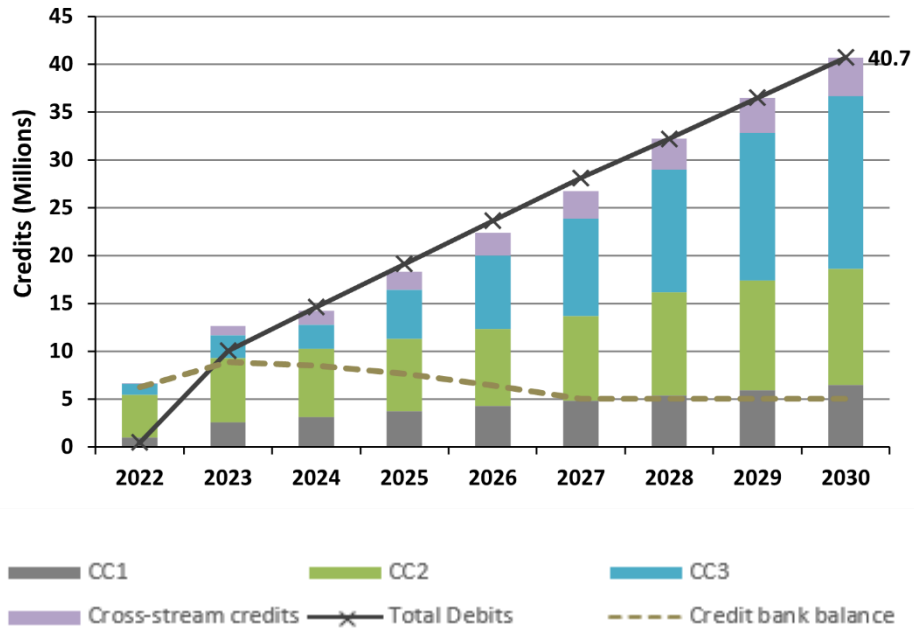
Baseline



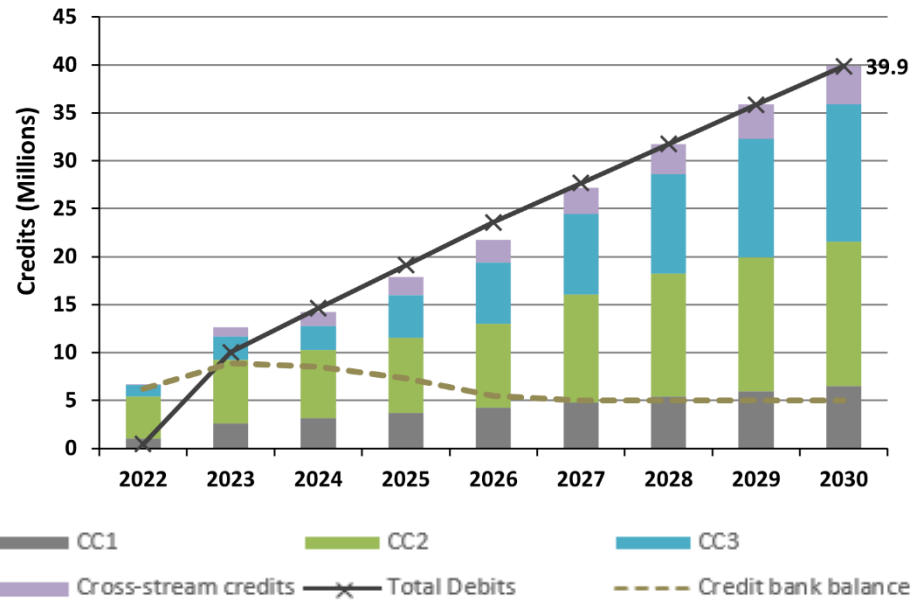
NZ-GR 13%



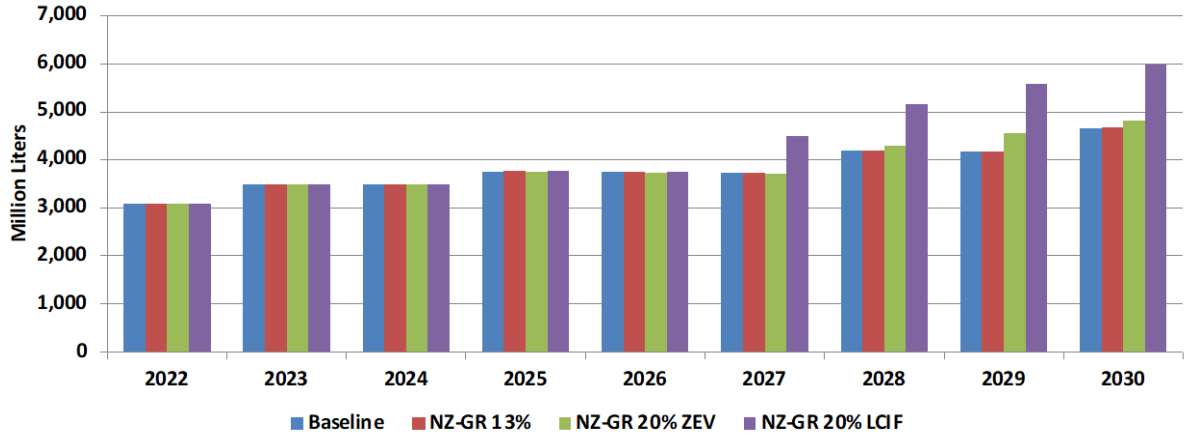
NZ-GR 20% ZEV



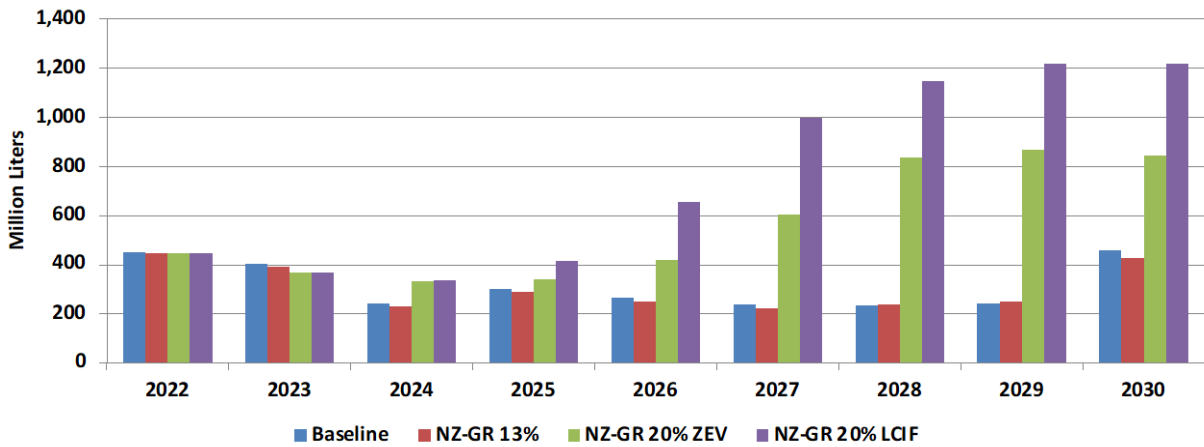
NZ-GR 20% LCIF



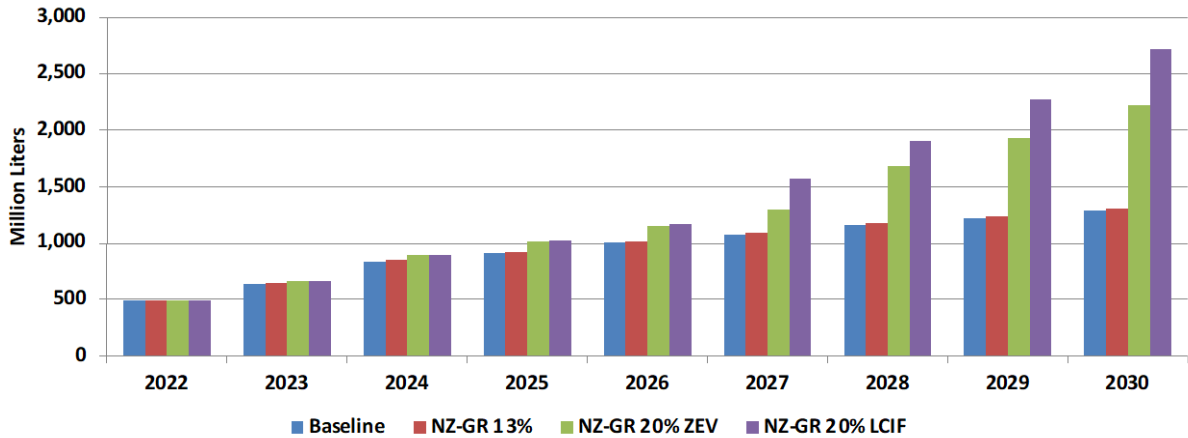
Canadian Ethanol Consumption By Scenario



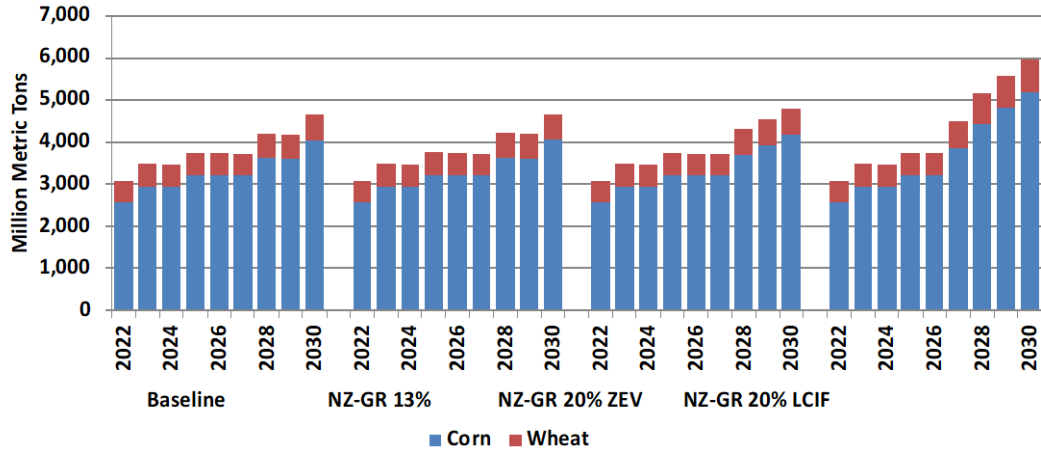
Canadian Biodiesel Consumption By Scenario



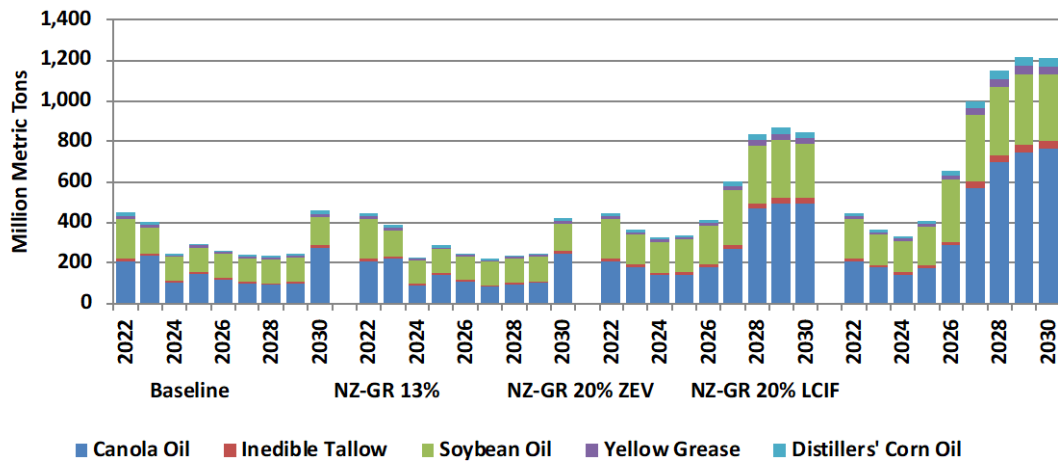
Canadian Renewable Hydrocarbon Fuels Consumption By Scenario



Canadian Ethanol Consumption Feedstock Use



Canadian Biodiesel Consumption Feedstock Use



Canadian Renewable Hydrocarbon Fuels Consumption Feedstock Use

