

Who We Are





























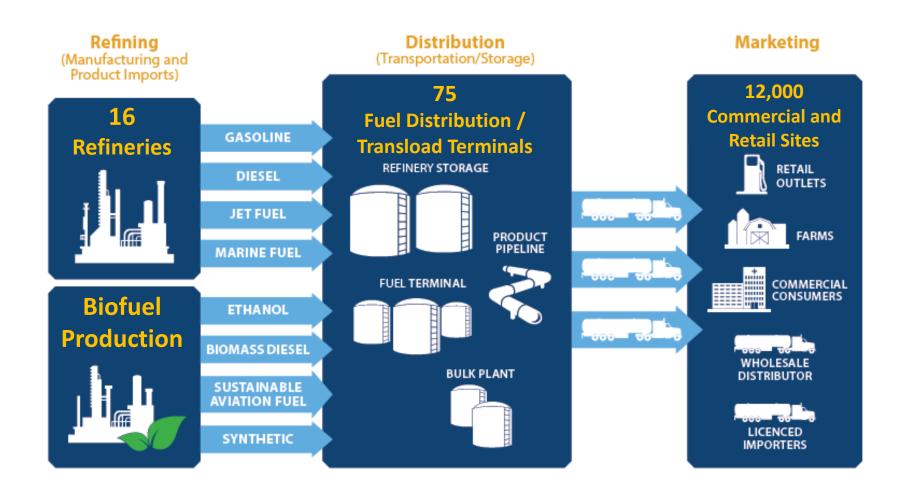


- We represent Canada's transportation fuels sector
- Supply 95% of transportation fuels in Canada (gasoline, diesel, jet, marine, biofuels, hydrogen, etc.) and soon, sustainable aviation fuel
- Our members make more than 70% of Canada's biofuels



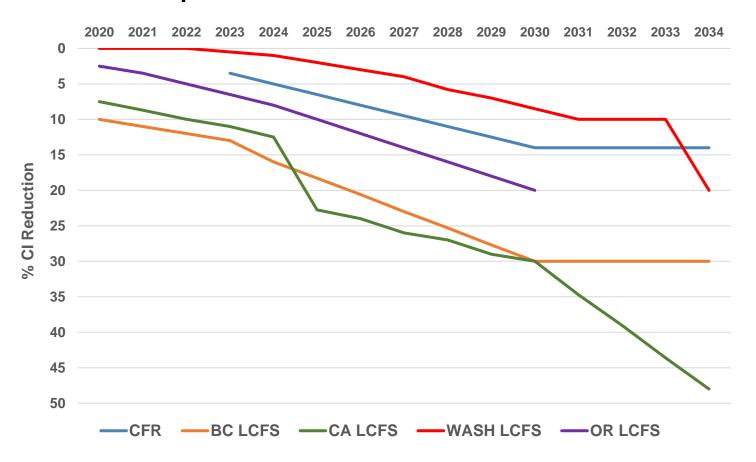
Canada's Fuel Production – Retail Sector





Carbon Intensity Matters: Regulations

Comparison of Low Carbon Fuel Policies



CFR CI Reduction Trajectory

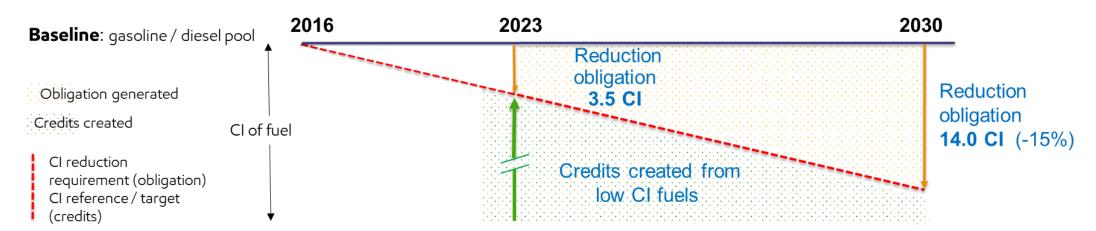
	Gasoline	Diesel
seline	95 (gCO2e/MJ)	93 (g CO2e/MJ)
2023	91.5	89.5
2024	90	88
2025	88.5	86.5
2026	87	85
2027	85.5	83.5
2028	84	82
2029	82.5	80.5
2030	81	79
2027 2028 2029	85.5 84 82.5	83.5 82 80.5



Carbon Intensity Matters: Fuels Policy Credits

- LCFS program credits created using difference in fuel CI compared to target CI
 - Lowest CI fuels create most credits
- Recognition and reward through increased credits creates value for lower CI fuels
 - Driver for investments to continue to lower fuel CIs

CFR Example: Credit Creation for Low-CI Fuels





Carbon Intensity Matters: Carbon Markets

- CFR market nascent and maturing
 - Seeking greater frequency of reporting similar to BC LCFS
- Significant swings in BC LCFS credit prices over last 6 months
- US policies have played impact

 time needed to assess
 impacts of recent California
 approved amendments that will strengthen stringency
 beginning in 2025

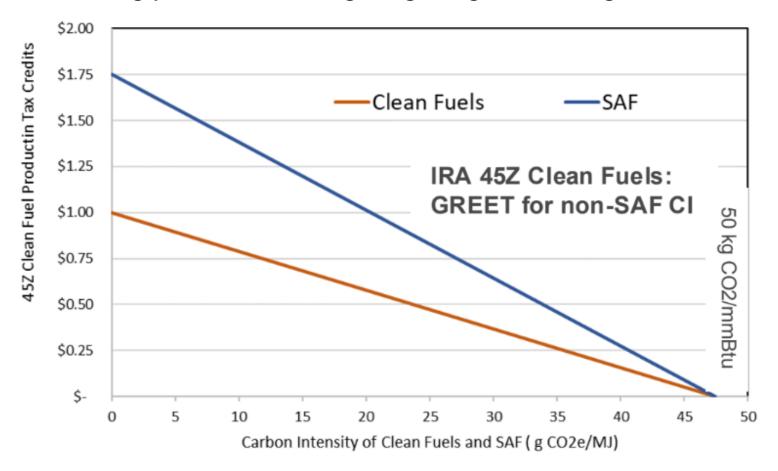
Compliance Period	Transfers	Total Credits	Avg Price	Min	Max	
CFR						
2022	77	1,222,594	\$ 141.8	\$ 9.77	\$ 300	
2023	163	1,780,206	\$ 127.3	\$ 6.75	\$ 300	
BC LCFS						
Q4 2024	5	11,211	\$ 308.46	\$ 225.00	\$ 485.00	
Q3 2024	8	192,379	\$ 446.22	\$ 205.44	\$ 471.50	
Q2 2024	12	142,803	\$ 457.25	\$ 374.00	\$ 495.00	
Q1 2024	68	653,756	\$ 482.72	\$ 400.00	\$ 512.06	
Q4 2023	30	220,464	\$ 496.60	\$ 450.00	\$ 510.00	



Carbon Intensity Matters: Incentives

• Incentive policies and programs increasingly based on CI giving heightened significance

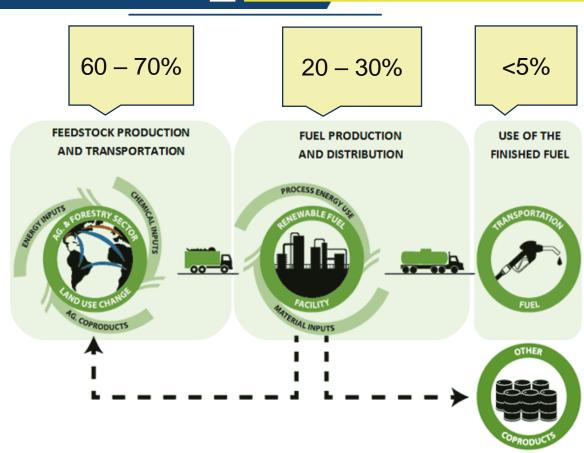
Canadian Clean H2 ITC				
CI (kg CO ₂ e/kg H2)	Rate			
Less than 0.75 kg	40%			
0.75 to 2.0 kg	25%			
2.0 to 4.0 kg	15%			
Above 4.0 kg	0%			





Carbon Intensity Matters: Life Cycle Analysis

- Standardized LCA is critical for technology neutrality
 - Jurisdictions use different LCA models adding complexity and impacts on trade flows
- Canada Fuel LCA Model, GHGenius (different versions)
- US variations of GREET
- International (ICAO, IMO) further variations
- LCA policy choices impact CI values inclusion of indirect land use change, co-product allocation

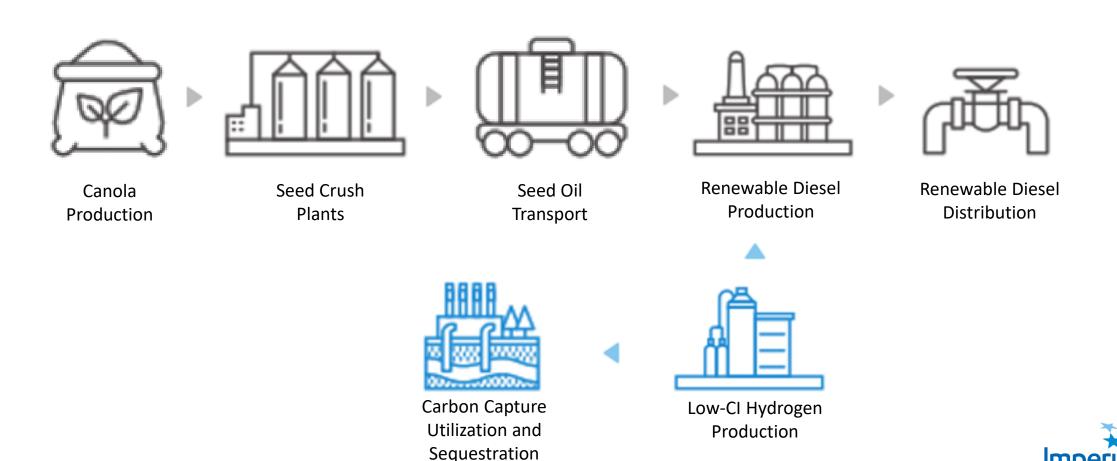




Canada's Renewable Diesel CI Value Chain

Opportunities exist through the Renewable Diesel value chain to optimize and reduce Carbon Intensity

Canola Oil based Renewable Diesel example



Why does carbon intensity matter?

- Each unit of carbon reduction from renewable fuels earns a credit.
- Lower carbon intensity fuels earn more credits per liter of output.
- Credits can be lucrative, often > \$100/t of carbon reduced.
- Fuel producers earn more credit revenues from lower carbon fuels/feedstock.

