



PROGRESS
REPORT
2024



SHOWASING COMMITMENT TO SUSTAINABILITY



The Clean Carrier Program, launched by the [BC Trucking Association](#) (BCTA), is an eco-certification initiative designed to support commercial carriers in reducing greenhouse gas emissions and enhancing energy efficiency. By promoting the adoption of fuel-saving technologies and best practices, the program aligns with the BC Government’s legislated emission reduction targets for 2030, 2040, and 2050.

The Clean Carrier Program also helps carriers meet environmental compliance requirements under Bill C-59, by providing verifiable improvements in fuel efficiency and greenhouse gas (GHG) emissions reductions, supporting the Province’s climate targets while offering carriers a competitive advantage. Since its launch in January 2024, the program has made significant strides in certifying carriers dedicated to sustainability, showing the trucking industry’s leadership in driving meaningful change.

This report highlights the Clean Carrier Program’s results and its critical role in advancing BC’s transition to a low-carbon economy.

KEY FINDINGS

Baseline and Methodology

Baseline Data: The program uses a baseline established through a 2019 BCTA survey, which analyzed fuel efficiency trends across 3,696 medium- and heavy-duty vehicles from 65 carriers. The data covers vehicle model years from 1996 to 2024, with a focus on the 2006 - 2010 period for benchmarking.

Data Standardization: To ensure consistent comparisons, an annual distance of 115,000 km per vehicle was assumed. GHG emissions were calculated using a diesel fuel emission factor of 2.7 kg carbon dioxide (CO₂) per litre, and fuel efficiency metrics were standardized in km/L (kilometers per litre).

1. Superior Fuel Efficiency

Newer vehicles (2017 - 2023) of companies that are Clean Carrier Certified show significant fuel efficiency improvements, achieving an average of 2.6 - 2.8 km/L, compared to 1.9 km/L for vehicles from the 2006 - 2010 baseline of the BCTA study.

Fuel efficiency gains relative to the baseline range from 31% to 48%, depending on the vehicle model year.

2. GHG Emissions Reductions

The average heavy-duty vehicle certified under the program emits approximately 110,000 - 120,000 kg CO₂/year, representing a 7 - 15% reduction compared to the industry average of 128,308 kg CO₂/year.

3. Fuel Savings Compared to Industry Standards

Clean Carrier Certified vehicles consistently outperform the industry benchmark of 5.7 miles per gallon (MPG) or 2.42 km/L, achieving fuel efficiencies of 2.6 - 2.8 km/L.

4. Impact on Sustainability

Participants who are Clean Carrier Certified achieve a 35 - 41% reduction in fuel consumption and related GHG emissions compared to the baseline levels established in BCTA's 2019 survey, demonstrating the program's effectiveness in advancing sustainability goals.¹

1. Incremental fuel efficiency improvements have been observed with newer vehicle models:

- 2020 model years achieved a 20.5% improvement over the 2006 - 2010 baseline.
- Year-over-year gains in fuel efficiency are observed until 2024, where newer vehicles exhibit a slight decline due to incomplete operational data.

CERTIFIED CARRIERS

Certified Clean Carriers demonstrate a 35 – 41% reduction in fuel consumption and related emissions.



The Clean Carrier Program has proven to be a vital initiative in certifying carriers committed to sustainability. Certified Clean Carriers demonstrate a **35 – 41% reduction in in fuel consumption and related emissions**, demonstrating the trucking industry's dedication to reducing its environmental impact. By supporting carriers in adopting energy-efficient practices and technologies, the program has not only helped participants lower fuel consumption and greenhouse gas emissions but also set a high standard for environmental responsibility within the sector.

These achievements directly align with BC's climate action goals, reinforcing the industry's commitment to a cleaner, more sustainable future. Through the success of this program, BCTA will continue to lead the way in promoting innovative solutions that benefit both the environment and the industry.