

EPA SmartWay Partnership Program

May 29, 2024

What is SmartWay?



- Neveloped with industry leaders in 2004 as a voluntary, market-based program aiming to:
 - Improve U.S. freight efficiency and enhance our Nation's energy security
 - Reduce GHGs and other air pollutants (NOx, PM)
 - Spotlight the freight industry's efforts to reduce emissions
 - Advance technology and operational efficiency strategies
 - Provide a standardized benchmarking and reporting system
- Adopted by Canada (2012), piloted in Mexico and replicated around the globe
- About 4,000 Carriers, Shippers, Logistics Providers and Affiliates
 - Key economic sectors and modes (truck, rail, air, barge)
 - Small business, Owner-operators, Fortune 500 firms
 - About 2/3 of total US ton-miles of freight accounted for in SmartWay





The SmartWay Ecosystem





EPA publishes performance rankings and emissions of carriers and logistics firms





PENSKE

Carriers

Can help shippers & logistics customers improve environmental performance

Shippers

Hire carriers and 3PLs;

interested in sustainability and costs

3rd Party Logistics (3PL)

Can help shipper clients with

carrier selection, operations



Firms submit data on freight shipped for shippers







Carriers submit activity and equipment data



Logistics firms hire carriers based on performance and help shipper clients optimize carrier selections to reduce carbon



SmartWay by the Numbers



- Since 2004, the number of companies that rely upon SmartWay has grown from 15 to over 4,000
- SmartWay Partners saved over \$52.3 billion in fuel costs (\$4.7B in 2023) and reduced harmful air pollutants by
 - 162 million tons of CO2
 - 2.7 million tons of NOx
 - 112,000 tons of PM (includes black carbon)
- SmartWay Partner energy savings are equivalent to 357 million barrels of oil OR eliminating annual energy use in 23 million homes





























Two Decades of SmartWay Evolution





The SmartWay

Concept Is Born EPA and 15 "Charter Partners" collaborate to develop a voluntary green freight program.

2004



The Starting Line

EPA launches the SmartWay program pioneering freight carbon accounting & emissions reduction strategies for



2005





SmartWay Welcomes Logistics and Rail



EPA adds these important freight service providers to the program



Affiliates Step Up

Key industry and trade organizations launch the SmartWay Affiliate program to support freight

2006

Why is This Car Smilin

Beyond Freight





FPA establishes a The "SmartWay Flite" followed by a day cab

2007



I Spy SmartWay on the Road

SmartWay designation for new tractors and trailers. trailer level in 2015 is

2008



Greening the Globe

Over a dozen countries gather for the SmartWay nternational Summit. settin the stage for global green

2010



Second Generation SmartWay

FPA enhanced the SmartWay benchmarking methodology to allow Partners to benchmark their performance agains their industry peers





SmartWay Introduced to Latin America

SmartWay co-hosts the first LATAM Green Freight Mexico pilots SmartWay





Tri-Lateral MOU with U.S., Mexico. and Canada

The three countries sign a to help each other enhance and expand SmartWay throughout



SmartWay Gains

Global Recognition The World Resources Council awards SmartWay the "Built-On GHG Protocol" mark. GLEC recommends calculation and reporting



Air Freight Lands

the SmartWay Air carriers join SmartWay complete SmartWay supply chain



SmartWay Global Training

EPA launches a comprehensive curriculum green freight programs modeled on SmartWay.



SmartWay **Envisions Cleaner** Freight Future

EPA charts a course for cleaner freight, publishes SmartWay Vision 2020.



SmartWay Turns 10 SmartWay celebrates 10 years

of cleaner, more efficient 3,000+ carriers, shippers logistics and affiliates.



Barge Steams Ahead

FPA adds this important freight mode to the program



A Global Model UNFP's Climate & Clear Air Coalition adopts SmartWay as a model for





Integrity SmartWay publishes data management guidelines to support the quality of





Canada Adopts SmartWay

Natural Resources Canada and EPA create a seamless cross-border program for Partners operating in both countries.

2019



Green Supply Chain Case Study

ICCT and EPA assess a SmartWay Partner's supply chain, studying emissions savings from advanced technological and strategies.

2020



Trucking Meets Unprecedented Challenges

SmartWay Partners unite to deliver essential goods 2021



Electric Trucks Energize Freight

SmartWay Partners and NACFE complete the Run on Less Electric demonstration to demonstrate the potential for truck electrification



Third Generation SmartWay

Partner reporting is enhanced with streamlined platforms and options for small carriers and owner-operators, Partner numbers top 4,000 across U.S.



SmartWay Listening Year EPA hosts Partner listening

sessions on ways to enhance SmartWay awards and recognition programs, GHG benchmarking hodologies and data exchange





Emissions Disclosures Get a Boost

Partners prepare for new GHG reporting mandates from California by ramping up use of SmartWay data for public GHG reporting, goal-setting and climate targets



A New Global Standard

EPA helps develop and launch ISO 14083 as the first global standard for freight (and passenger) GHG calculation





Two Decades of Progress!

EPA thanks SmartWay Partners and Affiliates for creating a more sustainable freight future. EPA refreshes the SmartWay Excellence Awards and recognition programs with Profiles in Leadership.

SmartWay and the Transportation Decarbonization Blueprint



- SmartWay and other partnership programs can play and important role in building support from stakeholders at each node and mode in the supply chain
- SmartWay fleets can create momentum for decarbonizing tech and strategies
 - SmartWay Partners support a "community of practice" for developing infrastructure initiatives
 - Spotlighting fleet leadership in deploying advanced technology
 - SmartWay builds fleet confidence in new technologies
 - Peer-to-Peer sharing and collaboration
 - Trusted-Third-Party information (metrics, tech, strategies)
- Influencing today's fleet decisions
 - SmartWay Technology Verification of fuel-saving technologies informs equipment choices regardless of the engine, motor, or cell
 - SmartWay Partnership benchmarking informs today's goods movement decisions across multiple modes

For more information



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Learn about **SmartWay**



- Overview of SmartWay
- · Why Freight Matters
- Corporate Social Responsibility (CSR) and Freight Logistics
- SmartWay Program Successes
- Freight Sustainability Leadership

Participate in SmartWay



- . How the SmartWay Partnership Works
- · Become a SmartWay:
- · Shipper
- Logistics Company
- · Carrier
- Tools & Resources for Partners & Affiliates

Meet our Partners & Use the SmartWay Brand



- · Learn About Partners and Affiliates
- o Partners List

Affiliates

- · Affiliates List
- Charter Partners
- SmartWay Excellence Awardees
- High Performer Lists · Other Partner Achievements
- · Featured Partner Profiles
- . Carrier Performance Rankings

- The SmartWay Brand
- · Sharing Your Participation in SmartWay
- SmartWay Verified Technologies
- SmartWay Tractors & Trailers · Apply the Logo to SmartWay
- Tractors & Trailers
- · Partner Press Releases

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- SmartWay Affiliate
- Editorial Calendar COVID-19 Resources for
- Trucking Companies Launch vour Freight Sustainability Strategy

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Upcoming Webinars & Events

 6/22/2023 - Fuel Saving Tips and Strategies to Reduce Emissions, Save Money and Help the Environment

View Past Webinar Recordings

Global Collaboration & SmartWay

Stay Connected: Get the E-Update



Appendix

SmartWay Support for an Electrifying Partner –

What are the Touch Points?

Data (Equipment)

Reports

Awards & Profiles



SmartWay Partnership

SmartWay Metrics & Benchmarking

Improved by fuel choice

Partner Portal

Optional equipment tab

Partner "Intel" Reports

Reports support Scope 1, 2 & 3 reporting

Recognition Programs

Leadership recognized and incentivized

Website Alt-Fuel Page

Facilitating peer-to-peer collaboration

Regional grocery store with private fleet

Meijer Foods

ncy's 2010 near-zero emissions standards in 2009, is once again leading the retail industry b

Collaboration

Retailer's first delivery using Freightliner eCascadia semis is a 44,000-pound+ food donation

Web Listings, Bins

Collaboration Strategies

EVgo and Meijer Expand Fast Charging Partnership through EVgo eXtend

Through its white label service offering, EVgo will install and ope

SmartWay Technology

Performance Protocols

Improved EV on-road and systems understanding

Research

Myth Busting and publicly available research

Performance Verification

Short-hand communicating EV performance

Technology Bulletins

Informing fleets on strategies that reduce emissions

EV Use Cases

Sharing EV success across the supply chain



SmartWay Engagement – Fleets Deploying EV in Freight Movement



Fleets perceive risks in the transition to EVs – Even the fleets that are starting early

- Fleet perceived risks
 - 1. Getting the vehicles and not being able to get the power.
 - 2. Charging cycles and can 1 EV replace 1 diesel truck.
 - 3. What are the "soft impacts" for the drivers and community?
 - 4. How do I compare the total-cost-of-ownership or the system (vehicle and charger) efficiency?
 - 5. Right vehicle, wrong application.
 - 6. How will EV tire management and maintenance costs differ from diesel vehicles?
- Many fleets are advancing the understanding, privately and in collaborative forums.











EPA support for Transportation Decarbonization Blueprint







- EPA has multiple mechanisms for advancing decarbonization goals
 - Regulation of new vehicles and engines.
 - Public funding of fleet turnover
 - Market-based, industry-government partnerships
 - Research
- SmartWay influencing today's fleet decisions and supporting advanced technologies