

G75

75 GREEN SUPPLY CHAIN PARTNERS

Inbound Logistics features its annual G75—a carefully curated list of 75 companies that go above and beyond to ensure their global supply chains are sustainable, and their operations are socially and environmentally friendly. These companies have spent years developing and implementing best practices to ensure the footprint they leave on the world is a positive one.

48FORTY SOLUTIONS

48forty.com

48forty uses recycled pallets to offer customers sustainable pallet solutions. The company repairs damaged pallets and sends them back into the pool. 48forty disassembles battered pallets and salvages boards that can be used in other pallets. It even chips the unusable bits and uses them as landscape mulch or for biofuel.



CURRENT GREEN INITIATIVES

- › Reuse/recycling program
- › Sustainable packaging
- › Sustainably source materials
- › Waste minimization through Lean manufacturing

NOTABLE ACHIEVEMENT

48forty has 90 million pallets in force. It uses and repairs each pallet about 10 times, ultimately shredding them for mulch.

ALASKA AIR CARGO

alaskaair.com

Alaska Air Cargo continues to find innovative ways to reduce the environmental impact of services, facilities, and equipment. Alaska Air Cargo's environmental strategy encompasses four main areas: reduce emissions from planes and equipment, waste from flights and other facilities, consumption of non-sustainable resources, and energy use in its buildings.



CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Reduce energy usage

NOTABLE ACHIEVEMENT

The airline's 2020 goal is to reduce mainline emissions 20 percent per revenue ton mile over 2009 levels.

ARCBEST

arcb.com

In 1976, ArcBest LTL carrier ABF Freight began limiting its trucks' maximum speeds to conserve fuel and reduce emissions. The company's new trucks have computerized engine shut-offs to reduce idling and minimize fuel consumption. The company follows an equipment maintenance/replacement program, so the average age of its linehaul tractors is rarely more than two years.



CURRENT GREEN INITIATIVES

- › Reduce energy usage
- › Reduce greenhouse gas emissions
- › Energy-efficient equipment
- › Reuse/recycling program

NOTABLE ACHIEVEMENT

ABF Freight has been a SmartWay partner since 2006 and winner of the 2014 SmartWay Excellence Award.

AMERICAN AIRLINES CARGO

aacargo.com

Ever since employees led the Fuel Smart initiative in 2005, American Airlines has saved millions of gallons of fuel from being consumed by its aircraft and support vehicles, while also cutting millions of pounds of CO2 emissions from being thrust into the atmosphere.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program

NOTABLE ACHIEVEMENT

American deploys more than 5,000 reusable lightweight composite cargo containers, reducing weight and saving more than one million gallons of fuel every year.

CANADIAN NATIONAL (CN)

cn.ca

Canadian National's (CN) environmental strategy focuses on emissions and energy efficiency, waste management, biodiversity, and land management. With Precision Railroad, fuel-efficient locomotives, and leading-edge technology, CN achieved a fuel and carbon efficiency improvement of 37 percent over the past 20 years.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reduce energy usage
- › Optimize yard performance

NOTABLE ACHIEVEMENT

CN's fleet uses 15-percent less fuel per gross ton mile overall than the industry average.



AVERITT EXPRESS

averittpress.com

Aside from investing in newer and cleaner technologies and equipment, Averitt helps shippers reduce their carbon footprint through strategies that include returnable totes to replace corrugate waste and the use of climate-controlled LTL units to cut reliance on foam containers and dry ice. It works closely with companies to identify mutually beneficial supply chain strategies that are also green-minded.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Since 2004, Averitt has lowered CO2 emissions by about 27 percent, reduced nitrogen oxide emissions by 50 percent, and cut particulate emissions by 52 percent.



APL LOGISTICS

aplogistics.com

APL Logistics continues to create programs to capture sustainability data and make it available to customers. It engages with its community through new partnerships, and develops new products to reduce customers' greenhouse gas consumption.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting
- › Collaborate with stakeholders to reduce and recycle plastic bags in retail businesses

ALLIANCE SHIPPERS

alliance.com

Alliance's EverGreen refrigeration units are equipped with two-way cellular tracking devices. They draw power from a battery source within the units, allowing them to always have a GPS location on assets as well as the ability to turn the refrigeration unit on and off at any time. Solar panels allow Alliance to use the sun's energy to continuously charge the batteries on its trailers.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Alliance's refrigerated trailers, moved via the nation's rail system, reduce CO2 output by 67 percent versus moving the same goods via highway trucks.



NOTABLE ACHIEVEMENT

Over six months, APL reduced emissions for a large retailer equivalent to driving 1.8 million fewer miles or taking 150 cars off the road annually.

AAA COOPER TRANSPORTATION

aaacooper.com

AAA Cooper installs enhanced/full aerodynamic fairing packages; converts oil to lighter-weight synthetic for better fuel economy; installs tire pressure systems designed for drive tire position to enhance mpg; and installs next-generation skirting on van trailers with better airflow direction. The SmartWay partner has new tractor placement with automated manual transmission with specific drivetrain modifications designed to increase mpg and reduce emissions.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainably source materials
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Continual reduced emissions since 2013.



BNSF

bnsf.com

BNSF created a Carbon Estimator Tool for shippers to track the carbon footprint of their rail shipments. It also implemented locomotive management systems to reduce idling, fuel consumption, and emissions.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reduce energy usage
- › Energy-efficient lighting
- › Solar panels
- › Alternative fuel/energy sources

NOTABLE ACHIEVEMENT

Fuel efficiency has increased 10 percent since 2005.



CRANE WORLDWIDE LOGISTICS

craneww.com

The 3PL's Crane Cares initiative is composed of three specific branches through which it demonstrates commitment to the environment (Green Worldwide), the communities in which we live and work (Give Worldwide), and the health, wellness, and safety of employees and their families (Live Well Worldwide).

CURRENT GREEN INITIATIVES

- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Crane Worldwide has been recognized as a SmartWay Transport Partner since opening its doors in 2008.

CELADON TRUCKING

celadontrucking.com

A long-time member of SmartWay, Celadon keeps a current tractor fleet, and relies on the latest technology to help reduce emissions and fuel consumption. The trucker outfits its tractors with speed limiters and equips trailers with skirting. Celadon regularly maintains its tractors to run at optimum efficiency.

CURRENT GREEN INITIATIVES

- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Celadon earned the 2017 SmartWay Freight Carrier and Multimodal Excellence Award.

CASESTACK

casestack.com

CaseStack's retail consolidation programs help conserve natural resources by reducing dock congestion, improving warehouse efficiencies, and decreasing the number of trucks on the highway. The resulting supply chain consumes less energy and produces lower amounts of carbon emissions. CaseStack has been a SmartWay partner for the past eight consecutive years.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

CaseStack's consolidated truckloads reduce carbon emissions by 58 million pounds of CO₂ each year.

CSX TRANSPORTATION

csx.com

CSX Transportation has a three-pronged approach to sustainability: reduce the environmental footprint of operations, engage openly on sustainability issues, and support sustainability developments. In 2016, the company improved fuel efficiency by shutting down unused locomotive power whenever possible. The railroad is capable of moving one ton of freight 474 miles on a single gallon of fuel.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage

NOTABLE ACHIEVEMENT

Since 1980, CSX has improved fuel efficiency by more than 100 percent.

CROWLEY

crowley.com

Crowley's new terminal management systems reduce truck idling and turn times by 25 percent, which reduces air impacts on the mainland and Puerto Rico. Two new commitment class containerhips will provide Puerto Rico service with 38-percent per-container reduction of CO2 emissions, and near-total SOx reduction. Crowley's tank vessel fleet carried 472 million barrels, and made 5,196 product transfers with zero spills.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Energy-efficient lighting
- › Limit/eliminate plastic bottle and other disposable beverage container usage

NOTABLE ACHIEVEMENT

Using the Clean Cargo Working Group platform, Crowley launched its first third-party verification of emissions data for customer assurance, receiving 100-percent verification of its international liner fleet's CO2 and SOx emissions.

CARGO TRANSPORTERS

cgor.com

As a SmartWay Partner Excellence Award winner in 2016, Cargo Transporters continues to spec its on-highway vehicles with the most current aerodynamic equipment, maximizing fuel efficiency. The company invests in on-site electrification for vehicles so hotel loads can be powered by shore power connections. It has invested in load-sensing devices in trailers to avoid extra on-highway miles resulting from trailer checks.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Use wastewater
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Installed additional 26 shore power parking spots for trucks, bringing total to 50.



DHL SUPPLY CHAIN

dhl.com

DHL has set four interim sustainability targets to achieve by 2025. Global target: increase carbon efficiency by 50 percent compared to 2007. Local target: deliver 70 percent of its own first- and last-mile services with clean pickup/delivery solutions. Economic target: more than 50 percent of sales incorporate green solutions. People target: train 80 percent of employees as certified GoGreen specialists.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Solar panels
- › Energy-efficient lighting
- › Customer Go Green solutions

NOTABLE ACHIEVEMENT

A carbon efficiency target to improve by 30 percent over 2007 baseline by 2020 was achieved in 2016, four years earlier than planned. In 2017, it improved by two index points to 32 percent.



CT LOGISTICS

ctlogistics.com

CT has invested in software developments specifically targeting the ability to provide shippers the tools to make greener supply chain choices. Its Lion™ software helps shippers drive energy efficiency with supply chain routing analysis technologies. This software was built to maximize lane effectiveness and facilitate more optimal/greener transportation mode selections. CT's FreitWeb™ software aggregates small shipments to reduce costs and fuel. This software enables shippers to choose environmentally conscious routings, mode selections, and carriers with the shortest transit times to reduce fuel consumption and lower CO2 emissions.

CURRENT GREEN INITIATIVES

- › Reuse/recycling program
- › Use wastewater
- › Energy-efficient lighting
- › At least 40 percent of its six-acre corporate campus remains undeveloped and wooded
- › Intelligent thermostats are utilized for all areas

NOTABLE ACHIEVEMENT

CT saved more than 200,000 kWh of electricity over the past year by replacing all facility lighting with LED lamps/bulbs.

CROWN EQUIPMENT

crown.com

From product design to packaging, Crown reduces its environmental footprint through increased energy efficiency, lean business processes, reduced resource consumption, and elimination of waste. Crown delivers high-quality, energy-efficient lift trucks that use fewer parts, require less maintenance, and produce less waste.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Energy-efficient lighting

ENGLAND LOGISTICS

englandlogistics.com

The England Logistics team safeguards food and beverage shipments by utilizing a network stocked with temperature-controlled facilities and equipment, resulting in fewer transportation risks. Using optimization software also allows the company to build an economic strategy for each shipment, resulting in reduced miles. These practices ensure each shipment is transported in the most resourceful way possible, with a minimized impact on the environment.

CURRENT GREEN INITIATIVES

- › Reduce energy usage
- › Sustainable packaging

NOTABLE ACHIEVEMENT

As a SmartWay partner, England Logistics is committed to reducing carbon emissions in the environment.

NOTABLE ACHIEVEMENT

Crown has achieved five zero-landfill status facilities, three ISO 14001-certified facilities, and is the first company to have three facilities receive the Ohio EPA's Encouraging Environmental Excellence Gold Award.

DUPRÉ LOGISTICS

duprelogistics.com

Dupré's green initiatives address fuel efficiency, safety, and environmental performance. Dupré's fleet contributes to green results with a top speed of 62 mph, and the use of fuel-efficient tires. Utilizing Omnitrac and Green Road technologies monitors safety and fuel economy.

CURRENT GREEN INITIATIVES

- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Dupré strives to maintain the environment within its operations.

ECHO GLOBAL LOGISTICS

echo.com

By using technology, industry expertise, its extensive carrier network, and multimodal transport options, Echo provides clients with access to greener transportation solutions.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Since 2010, Echo has partnered with the SmartWay program to measure, benchmark, and improve its environmental footprint.



DSC LOGISTICS

dsclogistics.com

DSC's sustainability programs include warehousing and transportation emissions reduction. Its goals include reducing utility metrics across all locations by an average of 8 percent year over year. The company's network redesign features better placed distribution centers and optimized transportation routes, resulting in a more sustainable network with a reduced carbon footprint. DSC is certified as a SmartWay logistics provider and carrier partner.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

DSC's transportation consolidation efforts for customers reduce mileage

driven across all modes by up to 700,000 miles monthly, and reduced carbon emissions by 12 percent in 2017.

HUB GROUP

hubgroup.com

Hub Group's LEED Gold-certified corporate headquarters features natural habitat landscaping, energy-efficient lighting, electric vehicle charging stations, and rainwater harvesting. A continuing initiative aims at reducing idle hours.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting
- › Rainwater harvesting
- › Satellite tracking for improved routing
- › Day cab/lightweight sleeper investments
- › New electric tractor purchases and platooning

NOTABLE ACHIEVEMENT

Hub Group continues to educate, develop, and implement intermodal conversions in its customers' supply chains, resulting in savings of 3 billion plus pounds of CO₂ in 2017.



FEDEX

fedex.com

FedEx sustainability efforts include: managing its carbon footprint, establishing environmental policies and procedures for employees to follow, using natural resources to minimize waste generation, and establishing an EarthSmart program.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Sustainable packaging
- › Reuse/recycling program
- › Solar panels

NOTABLE ACHIEVEMENT

By 2012, FedEx had increased its global electric vehicle and hybrid electric vehicle fleet to 482 vehicles, logging more than 14.8 million miles and saving 480,000 gallons of fuel.

GEORGIA PORTS AUTHORITY

gaports.com

Moving to electric rubber-tired gantry cranes for container handling reduces GPA's carbon footprint by 96 percent per crane. Savannah's electric ship-to-shore cranes capture enough energy lowering boxes to power themselves 18 minutes of each hour. GPA uses computer controls and efficient fixtures that, adjusting for the season, turn on lights as the sun sets. The project aims to achieve \$4.9 million in energy savings over 10 years.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Electrification efforts avoid the use of more than 5.8 million gallons of diesel each year.

JAXPORT

jaxport.com

From designing cargo terminals and using innovative technologies, to purchasing new equipment, JAXPORT is committed to environmental protection. Among the port's efforts to preserve the region's natural environment are championing the use of cleaner, alternative fuels, reducing engine emissions from port equipment, and recycling oil used in cranes.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage

NOTABLE ACHIEVEMENT

JAXPORT helped construct an outdoor classroom at Oceanway Middle School that features hundreds of native plants, a freshwater pond, and an elevated deck. Oceanway uses the facility to teach students science and ecology.

KENCO

kencogroup.com

Kenco commits to the environment by employing a full-time leader of sustainability to drive initiatives. The company aims to assist its customers in achieving environmental responsibility. Initiatives include: using hybrid automobiles in the company fleet, reducing paper and paper waste with technology, and using auxiliary power units to reduce idle time and fuel consumption.

CURRENT GREEN INITIATIVES

- › Reuse/recycling program
- › Alternative fuels/energy sources
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Governing trucks and training drivers on progressive shifting techniques to promote fuel conservation.

J.B. HUNT

jbhunt.com

For the past 10 years, J.B. Hunt has been a SmartWay partner and received a SmartWay Excellence Award each year. The company engineers and designs customer solutions with an emphasis on energy efficiency. Other green initiatives include LTL consolidation and network optimization, mpg tracking and improvement maintenance, lightweight and aerodynamic equipment, driver training, and alternative fuel options such as natural gas and biodiesel.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

In 2017, J.B. Hunt reduced carbon emissions equivalent to removing more than 700,000 passenger vehicles off the road for one year.

LUFTHANSA CARGO

lufthansa-cargo.com

Lufthansa Cargo's environmental strategy for continuous improvement focuses on green flying, green ground, environmental management system, innovation, partnerships, data transparency, public relations, and green solutions. Lufthansa Cargo operates five new Boeing 777F—the most efficient freighter in its class—and invested in two more, which will be delivered in 2019. Continuous investment in energy-efficient technology and buildings is as important as ongoing investment in new, lighter loading equipment.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainably source materials
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Lufthansa Cargo will replace all standard containers with lighter variants by 2020. It has achieved 70 percent of this goal, resulting in CO2 savings of more than 6,800 tons per year.



KNIGHT-SWIFT TRANSPORTATION

knighttrans.com

Knight-Swift's commitment to offering sustainable solutions encompasses multiple efforts, including: fuel-efficient tractors, fuel conservation initiatives, lower tractor emissions, energy-saving solar farms, alternative-fuel R&D, and aerodynamic trailer technology.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources

NOTABLE ACHIEVEMENT

Knight-Swift's more than 4,200 tractors operate with U.S. EPA2010 or newer engines. Technology related to these engines has effectively reduced the two primary emissions of the diesel engine—NOx and particulate matter—by 99 percent.

KANE IS ABLE

kaneisable.com

KANE reduces emissions, pollution, and congestion with smarter trucks and delivery methods. A Collaborative Distribution program reduces emissions by pooling inventory and shipments.



CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reduce energy usage
- › Reuse/recycling program
- › Energy-efficient lighting
- › Sustainable packaging

NOTABLE ACHIEVEMENT

Since 2012, KANE has recycled 61.6 tons of paper, 196.8 tons of plastic and stretch wrap, 12,822 tons of cardboard, 101.2 tons of cans/bottles, 14 tons of steel, and 149 tons of wood.

LYNDEN

lynden.com

Lynden is the first Alaska-based transportation company to be recognized by SmartWay and the first trucking company to earn the Green Star Award for Alaskan businesses. Despite operating in steep terrain and extreme conditions, Lynden's fleets consistently score among the most efficient in terms of CO2 per ton mile as measured by the SmartWay Transport Partnership.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials

NORFOLK SOUTHERN

nscorp.com

NS adopted a carbon-mitigation strategy, Trees and Trains, that turns its carbon footprint into a corporate opportunity. Additionally, through its progressive locomotive rebuilding program, NS has developed a new class of low-emission Eco locomotives for railyard service now used in Chicago, Pittsburgh, Atlanta, and Macon, Georgia.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage

NOTABLE ACHIEVEMENT

In its largest project, the company invested \$5.6 million over five years to reforest 10,000 acres in the Mississippi Delta. Between 2016 and 2030, the trees will generate an estimated 1.12 million carbon credits that NS can use to offset its carbon emissions or sell to others wishing to offset their environmental impacts.



- › Energy-efficient lighting.
- › Super-efficient reefer units, shore-side plug-in technology, and electric forklifts save fuel and reduce emissions
- › LED lighting has improved safety and reduced energy use, and its stormwater pollution prevention exceeds local requirements

MATSON

matson.com

In 1993, Matson's Zero Solid Waste Discharge policy, developed with Ocean Conservancy, set the industry standard for environmental protection at sea. Its Greentainer program uses a revenue slot on every sailing to collect all solid waste for transfer to recycling and waste-to-energy facilities on shore.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Matson recently installed engine exhaust cleaning systems on its Alaska fleet and will outfit its two new Aloha Class vessels, currently under construction, with dual-fuel, LNG-capable engines.



NOTABLE ACHIEVEMENT

Facility upgrades have saved 3,535 MWh of electricity and 4.5 million BTUs of heating fuel/natural gas annually. This equals the average energy used in 335 homes or 403 passenger vehicles each year.

MAERSK LINE

maerskline.com

Maersk Line aims to reduce its ocean shipping CO2 emissions by 60 percent per container transported between 2016 and 2020. It has already reduced CO2 emissions per container transported by 42 percent, and is investing more than \$1 billion in upgrading large container vessels with new technologies to reduce fuel consumption, CO2, and sulphur dioxide emissions by up to 20 percent per container transported. Technical upgrades include advanced propeller systems, engine upgrades, and hydrodynamic hull coatings.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reduce energy usage

NOTABLE ACHIEVEMENT

Maersk Line is taking delivery of the Triple-E, a modern vessel that is setting new standards in fuel efficiency. Its Triple-E vessels reduce both fuel consumption and harmful air emissions by up to 35 percent per container transported compared to other vessels sailing on the same shipping route.



NFI

nfiindustries.com

NFI develops and applies best practices to improve environmental impact through implementing technology and alternative energy across its operations, such as electric vehicles, solar power, and natural gas fleets. Currently, NFI runs electric yard horse and lithium battery forklift demonstration units, and is working to develop class 8 battery electric and hydrogen fuel cell vehicles. As an EPA SmartWay partner, NFI also uses AirTabs, trailer skirts, battery-powered APUs, and speed limiters to improve fuel efficiency. The EPA has awarded NFI the SmartWay Excellence Award three times.



CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

With 100-percent low-emission tractor fleets, NFI produces the least emissions possible and increased miles per gallon by at least 2 percent each year for the past eight years.

NORTHWEST SEAPORT ALLIANCE

nwseaportalliance.com

The partnership between the ports of Tacoma and Seattle reduces port-related emissions through clean truck programs, shore power at terminals, retrofitted cargo-handling equipment, and cleaner-burning ship fuels.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

The alliance achieved a 95-percent reduction in stormwater zinc and copper at terminal operations; and reduced diesel emissions 47 percent from trucks, 51 percent from trains, and 88 percent from ships.

PECO PALLET

pecopallet.com

PECO's core business is built on a foundation of reusing and recycling pallets to reduce waste. PECO cycles pallets an average of four times per year and carefully maintains them to prolong their useful life.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials

NOTABLE ACHIEVEMENT

PECO block pallets allow true four-way entry for more efficient stacking and transportation, which can significantly reduce fuel costs and reduce shippers' carbon footprint.

OLD DOMINION FREIGHT LINE

odfl.com

Old Dominion Freight Line continues to invest in its newest 2018 fuel-efficient fleet. It is retrofitting all 230 service centers with LED lights. Other green initiatives include fully equipped technology, such as onboard computers that track mpg and tire inflation systems that increase fuel mileage and reduce emissions. Its service center shops continue to convert to sole recycling water for drive-through truck washes, where more than 1,000 gallons of water are consistently on reserve.



CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Solar panels
- › Energy-efficient lighting
- › Moved from propane-powered to battery-powered maintenance PM carts

NOTABLE ACHIEVEMENT

Old Dominion's fleet is 100-percent low rolling resistance, increasing fuel efficiency and reducing emissions. 100 percent of its trailers (roughly 23,000) are equipped with aerodynamic skirts to lower wind resistance and conserve fuel.



ORBIS CORPORATION

orbiscorporation.com

ORBIS analyzes a customer's systems, designs a solution, and executes a reusable packaging program for cost savings and sustainability. Using lifecycle assessments to compare reusable and single-use packaging, ORBIS helps shippers reduce environmental impact.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials

NOTABLE ACHIEVEMENT

ORBIS helps shippers leverage lifecycle assessment data to make sustainable supply chain changes.



PORT OF LONG BEACH

polb.com

Guided by its award-winning Green Port Policy, the port is reducing harmful air emissions from port-related operations, improving water quality in the harbor, protecting marine wildlife, and implementing environmentally sustainable practices.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainably source materials

NOTABLE ACHIEVEMENT

The Port of Long Beach notched clean air records in its latest study of air pollution emissions, including an 88-percent reduction in diesel particulate matter.

PENSKE LOGISTICS

penskelogistics.com

In addition to helping customers go green, Penske benchmarks sustainability efforts against its competitors/customers, performs an annual GHG emission inventory, discloses its GHG emissions information to the Carbon Disclosure Project, and conducts energy audits/analysis to identify opportunities to save money and reduce carbon footprint. The company upgraded to more efficient fluorescent and LED lighting, and participates in the EPA's Green Power Partnership to purchase renewable energy credits.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

The purchase of renewable energy credits resulted in avoiding more than 10,542 MT of CO₂. Penske has reported a year-over-year reduction in metric tons of CO₂/mile for its fleet since 2012.

PORT OF LOS ANGELES

portoflosangeles.org

Utilizing the tenets of sustainability, the port works toward the best interests of the community, environment, and economy. It practices these principles through integral considerations during planning, design, and construction, and throughout operations and maintenance of port facilities and structures.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainably source materials

PERFORMANCE TEAM

performanceteam.net

A SmartWay partner since 2008, Performance Team continues to undertake green initiatives. PT's entire fleet has SmartWay-approved tires and uses trailer skirts and under trays to improve fuel efficiency. PT also utilizes on-demand packaging and works with corridor recycling to help recycle and reduce obsolete hardware in its facilities.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

In the past seven years, Performance Team transloaded more than 340,000 containers. Using a 3:2 compression standard, this translates into approximately 230,000 outbound trailers and a carbon reduction footprint of 30 percent.



NOTABLE ACHIEVEMENT

To advance zero-emission technologies throughout the port complex, the Port of Los Angeles partners with terminal operators to apply for state and federal funding to demonstrate and deploy cleaner technologies.

PORT OF SAN DIEGO

portofsandiego.org

All heavy-duty trucks accessing the Port of San Diego maritime terminals to pick up or drop off cargo must comply with clean air requirements under the State of California's Drayage Truck Regulation. The port's Vessel Speed Reduction Program is a voluntary strategy to reduce air pollutants and greenhouse gas emissions from ships by reducing speeds to 12 knots in the vicinity of San Diego Bay.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

The Port of San Diego was among the first U.S. ports to adopt a Climate Action Plan.

PITT OHIO

pittohio.com

PITT OHIO looks to see how it can do business differently by partnering with customers, vendors, and community members. The company has uncovered innovations in renewable energy over the past two years, and has installed eight wind turbines and 700 solar panels in its new Cleveland facility. Its long-term goal is to generate enough power to charge electric trucks.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Solar panels
- › Energy-efficient lighting
- › Wind power

NOTABLE ACHIEVEMENT

In 2017, PITT OHIO reduced overall electricity kWh by 6 percent, and specifically at its Pittsburgh facility, reduced consumption by 25 percent through implementing its DC powered, renewable energy micro-grid.



PORT OF BALTIMORE

mpa.maryland.gov

The Maryland Port Administration (MPA) is committed to meeting obligations for improved air and water quality, reduction of impacts to the Patapsco River and the Chesapeake Bay, and sound environmental management for dredging projects. MPA is working to reduce diesel emissions, manage stormwater responsibly, become more energy efficient, and offset environmental impacts from port operations with green projects that meet stewardship goals.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainably source materials

NOTABLE ACHIEVEMENT

The port has removed all underground storage tanks, retrofitted sand filters, wetlands, wet swales, and bioretention structures at several terminals, installed several engineered stormwater quality treatment technologies featuring pretreatment and filtering systems, and created hundreds of acres of wetlands and wildlife habitat.



PORT OF PORTLAND

portofportland.com

The Port of Portland has reduced diesel particulate matter by 76 percent from its 2000 level for operations it controls. It recently installed an additional 42 electric pre-conditioned air units to keep aircraft cool on hot days at Portland International Airport gates. Since 2005, the port has fueled container-handling equipment with ultra-low sulfur diesel and improved exhaust systems for cleaner emissions.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainably source materials

NOTABLE ACHIEVEMENT

Efforts to minimize idling vehicles and traffic at Portland International Airport and other properties have dropped carbon monoxide output by more than two tons annually.

PORT OF OAKLAND

portofoakland.com

The Port of Oakland studies all the impacts of a thriving economy to mitigate unintended negative impacts, including pollution (air, water, noise) and infrastructure wear and tear. As a result, the port is involved in dozens of innovative programs, thanks to an array of creative, problem-centered partnerships and collaborations that work to identify, quantify, and meet environmental challenges.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainably source materials

NOTABLE ACHIEVEMENT

The Port of Oakland's energy-efficiency rebate program provides tenants the port serves as a municipal utility the opportunity to replace their energy-inefficient electric equipment and fixtures. The port's energy rebate program encourages the implementation of energy-saving initiatives in the facility.



RR DONNELLEY

rrdonnelley.com

RRD continuously strives to improve global environmental health and safety performance by using practices that protect employees and the environment, including reducing emissions, developing recycling and pollution prevention opportunities, and using paper, energy, and other resources more efficiently.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

RRD is pursuing energy-efficiency programs involving several different technologies that it is installing in plants worldwide. The company reuses, repairs, repurposes, and recycles its process materials and byproducts to limit what enters the waste stream. RRD works with clients and suppliers to make packaging environmentally responsible, and collaborates to help minimize their combined effects on the environment.

RINCHEM

rinchem.com

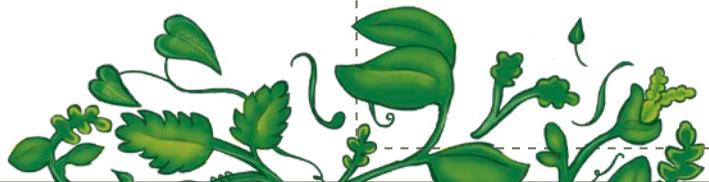
Rinchem is actively working to replace lighting with energy-efficient resources at all warehouse and administrative sites. A special focus on energy consumption at administrative sites includes sustainable office supplies and overall energy consumption best practices. Rinchem's transportation team adds only energy-efficient solutions for new assets, and requires its transportation partners to have a green initiative in place before working with them.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Energy-efficient lighting installed at Rinchem's first site saved 118 tons of CO₂ generated by fossil fuels. The energy-efficient lighting saves 248,230 kWh per year per site.



PUROLATOR

purolator.com

Purolator trains its drivers on eco-driving practices, continues to find new and innovative ways to reduce energy consumption, and offers environmentally friendly packaging options. The company understands the need to meet regulatory requirements and ensure environmental compliance.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Purolator has the largest hybrid electric vehicle fleet of any freight and parcel solutions provider in North America, and has been conducting an annual greenhouse gas inventory since 2007.

RAYMOND CORPORATION

raymondcorp.com

Raymond's sustainability initiatives include upgrading software and controllers to an automated logic and lighting controls program to zone and control factory and office lighting, heating, and air conditioning based on utilization; incorporating occupancy sensors to eliminate wasted lighting in main and facility offices; using water reclamation from the powder-coat paint system for utility water requirements; and installing supplemental active solar lighting.

CURRENT GREEN INITIATIVES

- › Employing five workers solely responsible for minimizing the waste stream

NOTABLE ACHIEVEMENT

Transitioning to propane from #2 fuel oil for the main boiler can eliminate the burning of up to 50,000 gallons of oil—almost twice the CO2 emissions of propane.



SCHNEIDER

schneider.com

Recent accomplishments include: improving fuel efficiency 12.5 percent since 2008; reducing fuel consumption 500,000 gallons between 2015 and 2016; reducing CO2 emissions by 4 percent, NOx by 7 percent, and particulate matter by 23 percent. Schneider is a charter member of the SmartWay program and is an eight-time SmartWay Award of Excellence winner.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Schneider is eliminating the need for idling by equipping every new solo truck with auxiliary power units. This will reduce fuel used during idling by 85 percent.

RYDER

ryder.com

Ryder has added electric vehicles (EVs) to its fleet, and has leased EVs to customers to assist them in reaching their sustainability goals. The company has also equipped several maintenance facilities across North America to meet the service and charging requirements for commercial EVs. Ryder has also achieved more than 200 million miles with its natural gas vehicle fleet operations.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting,

NOTABLE ACHIEVEMENT

Ryder has strategic partnerships with several electric vehicle manufacturers to provide distribution and maintenance services. The company has also deployed EVs in its rental and lease fleets.



RUAN

ruan.com

Three-time SmartWay Excellence Award winner Ruan utilizes lightweight trucks and trailers, proven aerodynamic solutions, auto-inflation tire systems, onboard monitoring, and auto-shift power units. Ruan also partners with and contributes to the Clean Cities annual study on diesel reduction. The company is one of only three for-hire fleets in the National Clean Fleets Partnership.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting
- › Member of CA SB1383 Subgroup #2 (Fostering Markets for Digester Projects)
- › Customer on-farm methane digester produces renewable fuel for Class-8 CNG tractor fleet
- › RNG fuel

NOTABLE ACHIEVEMENT

Ruan has run nearly 90 million miles on natural gas power since 2011, including 55 million miles using renewable natural gas from biodigested cattle manure.

SOUTH CAROLINA PORTS AUTHORITY

scspa.com

SCPA strives to be the greenest port in the Southeast through low gate turn times for truckers and efficient terminal operations; fully electrified cranes and terminal transloading equipment; reduction of idling on and near port property; 100-percent compliance with air quality standards and voluntary air monitoring; and the Clean Truck Program, requiring a 1994/newer engine for trucks entering the port. The port is a member of the Southeastern Diesel Collaborative and Coalition for Responsible Transportation, and supports local environmental groups.



CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainably source materials
- › Energy-efficient lighting
- › Offer a food truck program on terminal to reduce personal vehicle trips during daytime meals

NOTABLE ACHIEVEMENT

Development of an inland port network consisting of two facilities in South Carolina—Greer and Dillon—that increase freight tonnage moved by rail per gallon of fuel.

TRANSGROUP GLOBAL LOGISTICS

transgroup.com

TransGroup's external and internal sustainability activities are encompassed in its TransNeutral green program. TransGroup has been a SmartWay member since 2007. Its internal company sustainability initiatives include energy conservation, recycling, waste reduction, and paperless initiatives.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting
- › Paperless initiatives

NOTABLE ACHIEVEMENT

TransGroup was the first third-party logistics provider to become a SmartWay partner in 2007.

SEABOARD MARINE

seaboardmarine.com

Current initiatives include recycling used batteries and scrap metal from repaired containers, equipment, and ships. Seaboard's modern refrigerated container fleet uses ozone-friendly refrigerants that also increase energy efficiency. The carrier continually evaluates emerging technologies to reduce the environmental impact of its vessels, such as adjusting and replacing propellers and rudder bulbs with modern designs. Seaboard Marine works exclusively with accredited environmental firms for disposal of used tires and any items or substances that contain oil.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater

- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Energy-efficient lighting

SHIPPERS GROUP

shipperswarehouse.com

Shippers Group removed high-emissions forklifts from its fleet, and removed 206 metric tons of non-greenhouse gas emissions from the atmosphere. As part of its Zero Landfill Initiative, it recycled 63 tons of cardboard, plastic, and paper, and reused 4,703 units of dunnage and air bags. Shippers Group's Wilmer DC is equipped with high-efficiency electric chillers and T5 lighting with motion sensors.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Shippers Group has been part of the Texas Emission Reduction Plan since 2007, and removed high-emissions forklifts from its fleet.



NOTABLE ACHIEVEMENT

Seaboard Marine recently added 1,370 high cube refrigerated units to its refrigerated container fleet, of which 415 are equipped with special controlled atmosphere technology to meet the needs of perishable import/export shippers.

TRANSPORTATION INSIGHT

transportationinsight.com

Transportation Insight's integrated Enterprise Logistics solutions leverage multi-modal insight, expertise, and technology-driven data analysis to help clients improve supply chain performance. Employing Extended LEAN continuous improvement methodology for the end-to-end supply chain helps clients improve and maintain operational efficiencies as market demands change. Transportation Insight is an ongoing participant in the SmartWay Partnership program.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Transportation Insight engineers data-driven Enterprise Logistics solutions that eliminate supply chain waste and optimize routes.

TOTE MARITIME

totemaritime.com

TOTE Maritime spearheads many environmental initiatives, including converting vessels to liquefied natural gas power. TOTE continually seeks ways to reduce its environmental impact through innovative programs, many of which stem from the ideas of its employees.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reduce energy usage

NOTABLE ACHIEVEMENT

In 2017, JAX LNG, TOTE Maritime's LNG supplier, received a Letter of Acceptance from the U.S. Coast Guard for the operation of its waterfront LNG facility and the approval to conduct barge-to-ship LNG bunkering operations with TOTE Maritime's Marlin Class ships and its LNG barge, *Clean Jacksonville*.



SEALED AIR

sealedair.com

Sealed Air sets specific environmental targets for energy, greenhouse gases, water, and waste. The company continues to improve its plans to address environmental impact and cost reduction goals.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

In 2017, Sealed Air reduced energy intensity by 13.7 percent, reduced greenhouse gases by 21 percent, and reduced water intensity by 16.7 percent. It also diverted 71.3 percent of landfill waste (reduction compared to 2012 baseline).

UNION PACIFIC RAILROAD

up.com

Union Pacific continuously improves its management systems and operating efficiency, develops and invests in technology to reduce its environmental footprint, and works to increase fuel efficiency, reduce air emissions and energy consumption, and recycle used materials.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainably source materials
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Union Pacific set its best-ever fuel consumption rate in 2017, improving by 1.7 percent. Since 2000, it has saved nearly 2.9 billion gallons of fuel.



TRANSPPLACE

transplace.com

Transplace executed 12.8 billion ton miles on carriers registered with the SmartWay program in 2016, and procured 96 percent of ton miles for managed transportation business through SmartWay-registered carriers.

CURRENT GREEN INITIATIVES

- › Mode conversion/consolidation
- › Alternative fuels/energy sources

NOTABLE ACHIEVEMENT

Transplace helps shippers reduce emissions through use of more fuel-efficient transportation modes and the overall reduction in number of shipments needed through consolidation and co-loading arrangements.

WSI (WAREHOUSE SPECIALISTS, LLC)

wsinc.com

WSI employs natural landscaping and green space to minimize stormwater runoff and surface pollutants, and uses electric-powered equipment when possible. An active recycling program at all facilities amounts to thousands of tons of materials recycled each year.

UPS

ups.com

UPS continues its progress toward environmental goals: reducing absolute GHG emissions in global ground operations 12 percent by 2025, using electricity from renewable sources (25 percent by 2025), using alternative fuel as a percentage of total ground fuel (40 percent by 2025).

CURRENT GREEN INITIATIVES

- › Reduce energy usage
- › Reuse/recycling program
- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources

NOTABLE ACHIEVEMENT



As of 2016, UPS reached one billion cleaner miles through

its alternative fuel and advanced technology vehicles fleet.

U.S. XPRESS ENTERPRISES

usxpress.com

As an EPA SmartWay member since the program's inception and a two-time SmartWay Excellence Award winner, U.S. Xpress has consistently operated the newest, most efficient, and safest equipment available. The company looks across its entire operation to identify areas to reduce, reuse, and recycle.

CURRENT GREEN INITIATIVES

- › Reduce energy usage
- › Reuse/recycling program
- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

WSI received Responsible Care certification from the American Chemistry Council for its warehouse facility in Baytown, Texas, while its overall chemical unit passed program recertification.

WERNER ENTERPRISES/ WERNER LOGISTICS

werner.com

A four-time SmartWay Excellence Award winner, Werner has driven more than 17 billion miles since implementing ELDs 20 years ago, reducing out-of-route miles to save fuel and cut emissions. Running ELDs eliminated paper log books to save trees and reduce waste.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Since 2007, Werner has saved more than 203 million gallons of diesel fuel and reduced CO2 emissions by more than 2.2 million tons.



CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program

VERSACOLD

versacold.com

VersaCold's environmental efforts include retrofitting facilities with high-efficiency lighting, roofing, and charging systems; installing rainwater and defrost condensation collection systems and reduced flow faucets; implementing recycling programs, and expanding the use of more efficient refrigerants, such as ammonia.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Use wastewater
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

A partnership with Bullfrog Power provides a renewable energy purchase, allowing VersaCold to displace 54.8 metric tons of CO2 annually, or 4.6 metric tons of CO2 monthly.



- › Reduce energy usage
- › Energy-efficient lighting
- › Installed white roof on corporate headquarters to reflect UV and cool building

NOTABLE ACHIEVEMENT

U.S. Xpress has worked with Nikola Motor Company, supporting efforts to design, develop, and produce hydrogen fuel cell/electric trucks.

XPO LOGISTICS

xpo.com

XPO was awarded “Objectif CO2” by the French government and committed to reducing its French fleet emissions by 6 percent, starting in 2016 and ending in 2018. Many XPO Logistics facilities are ISO140001 certified. The 3PL recycles millions of electronic components and batteries annually through reverse logistics operations, and monitors emissions from forklifts at logistics sites, with protocols in place to take immediate corrective action if needed. Drivers are trained in responsible eco-driving and fuel usage techniques. XPO is experimenting with diesel alternatives, such as diesel-electric hybrids.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Sustainable packaging
- › Sustainably source materials
- › Solar panels
- › Energy-efficient lighting
- › Network optimization

NOTABLE ACHIEVEMENT

XPO is 90 percent compliant EuroV, EEV, and EuroVI. Its average truck age is 2.5 years. The 3PL invested \$90 million in new trucks in 2018 (North America); and used the first LNG-powered trucks in Paris suburbs. It is targeting a 20-percent reduction in CO2 emissions.

YUSEN LOGISTICS

yusen-logistics.com

Yusen Logistics (Americas) upgraded its Carson, California, facility with energy-efficient lighting and a white roof. Previously installed in the warehouse, the company is expanding the LED system to include the office and exterior yard. The white roof keeps the warehouse cool by deflecting up to 80 percent of sunlight, resulting in significant energy savings. Yusen Logistics is rolling out lithium-battery powered forklifts in Carson, as well as at its Sumner, Washington, facility. The lift trucks produce zero byproducts, resulting in fuel and repairs cost savings.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reduce energy usage
- › Solar panels
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

An investment in more than 30 lithium-ion battery powered forklifts will result in an average energy savings of 16 percent per truck.

YALE MATERIALS HANDLING

yale.com

Yale’s lift truck power solutions reduce emissions and waste. A lithium-ion battery pack lasts up to five times longer than a lead acid option, reducing recycling waste. Hydrogen fuel cells offer a 33-percent savings in greenhouse gas emissions compared to lead acid batteries charged from the electrical grid.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Yale is one of the largest volume producers of zero-emissions electric lift trucks in North America.



YRC WORLDWIDE

yrcw.com

YRC Worldwide companies are past recipients of the SmartWay Environmental Excellence Award, and the EPA named its team a SmartWay Champion. The company’s fleet strategy centers on equipment use, cleaner-burning fuels, and fuel-efficient engines. YRC has self-imposed restrictions on power-unit idling to reduce emissions and save fuel, and it uses biodiesel fuel, which burns cleaner than petroleum-based diesel. A priority continues to be replenishing the fleet with clean diesel trucks while testing other options.

CURRENT GREEN INITIATIVES

- › Reduce greenhouse gas emissions
- › Alternative fuels/energy sources
- › Reuse/recycling program
- › Reduce energy usage
- › Energy-efficient lighting

NOTABLE ACHIEVEMENT

Since the beginning of 2015, YRC has replaced 20 percent of its approximately 14,000 tractors and 15 percent of its approximately 44,000 trailers. About 70 percent of line-haul vehicles will be three years old or newer by mid-2018. All 53-foot and 28-foot trailers entering the fleet are equipped with aerodynamic skirts and fuel-efficient tires. And, YRC caps speed below 65 mph on all units, which reduces fuel consumption and emissions.

