From 3PLs to motor freight carriers, *Inbound Logistics* salutes supply chain visionaries who are leading the green revolution.

G50

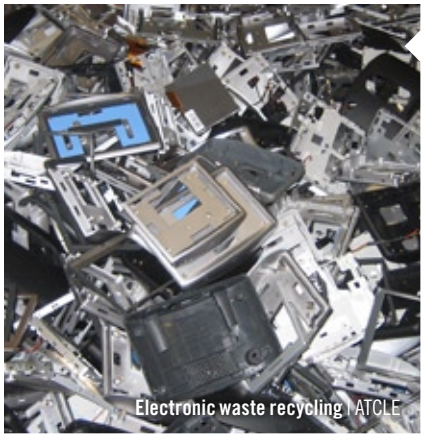
INBOUND LOGISTICS

50 GREEN SUPPLY CHAIN PARTNERS

AEP River Operations

GREEN URL: http://tinyurl.com/35rl78t

Recycling is a large part of how AEP River Operations manages its waste. The company initiated a program called SEE GREEN in October 2008 to reduce waste from its barge operations. In 2009, AEP recycled approximately 3,500 cubic yards of waste, as well as 70,000 pounds of vessel mooring lines. In addition, the company recycles 90 percent of all onboard waste, cutting disposal costs in half and reducing the risk of harming the environment.



Electronic waste recycling | ATCLE

ATC Logistics & Electronics

GREEN URL: http://tinyurl.com/36szupm

ATCLE has established a dedicated green team with cross-functional participants who gather monthly to identify opportunities to improve the environment, as a company and within specific departments. Through a top-down organizational commitment to reducing negative environmental impact in internal operations, the 3PL realized dramatic tangible benefits, cutting its overall environmental impact by approximately 10 percent from 2007 to 2008.

C.H. Robinson Worldwide

GREEN URL: http://tinyurl.com/2flgs8a

C.H. Robinson works with non-profit organization Cascade Sierra Solutions (CSS) to help motor carriers reduce fuel consumption and carbon emissions. To support CSS in its mission, the 3PL provides financial backing and helps promote CSS services to its network of more than 45,000 contract motor carriers in North America. Additionally, C.H. Robinson has invited its customers to participate in the newly developed C.H. Robinson-CSS Customer Match Program, which matches a percentage of C.H. Robinson's eligible customers' donations to CSS.

DB Schenker

GREEN URL: http://tinyurl.com/292s9ku

DB Schenker's Green Logistics Network project evaluates transportation modes not only according to economical aspects, but also from an ecological point of view. Under the umbrella of this initiative, the company offers shippers a carbon-optimized transport chain. The aim is to reduce carbon emissions through an intelligent shift to less carbon-intensive transportation modes and by offering alternative transport services. This helps to increase the share of low-emission modes in the transport chain and to reduce the carbon footprint for both shippers and for DB Schenker.

Solar-powered warehouse, Martinengo, Italy | CEVA Logistics

Carbon-optimized transport, Hong Kong | DB Schenker

CEVA Logistics

GREEN URL: http://tinyurl.com/29qgqlw

Working in partnership with Starbucks and Smith Electric Vehicles, CEVA introduced high-performance zero-emission electric vehicles that make daily deliveries to Starbucks stores in London. The 3PL also operates eco-sustainable facilities, such as a warehouse in Martinengo, Italy, fitted with more than 5,300 photovoltaic panels.

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DSC Logistics

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During the fourth quarter of 2009, DSC Logistics launched a new bill of lading (BOL) system throughout its network. The initiative came about after employees noticed the typical six-part BOL was often unnecessary. Working with suppliers to arrange for order forms with only the number of pages its logistics centers need, DSC expects to save 644,000 pages of paper each year.

EA Logistics

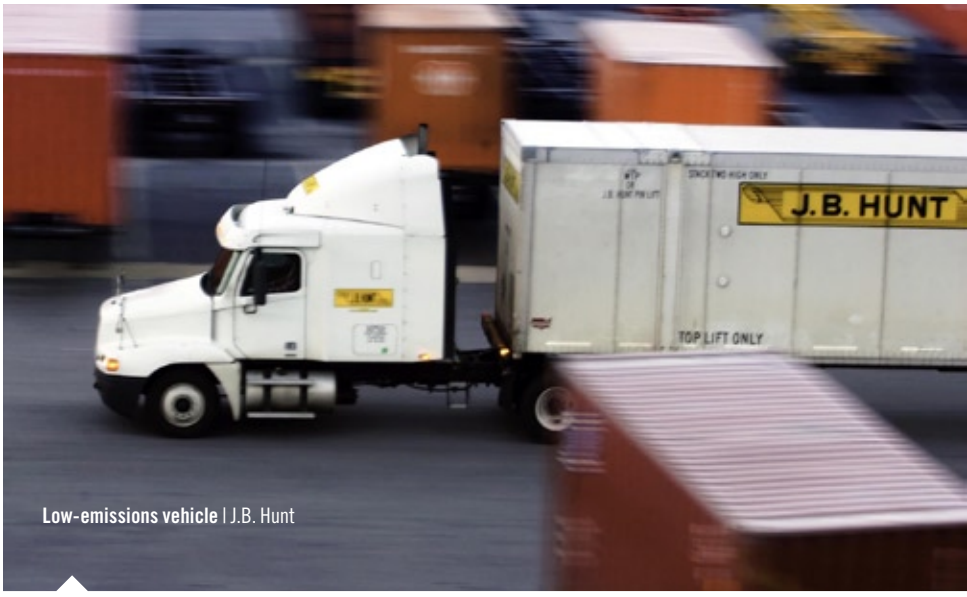
GREEN URL: http://tinyurl.com/37uelbe

Delivered GrEAn is EA Logistics's corporate commitment to the environment. The forwarder's sustainability mission includes computing carbon footprints for customers and providing free reforestation offsets to neutralize emissions; using biodiesel in its truck fleet and encouraging vendors to use it as well; enforcing no-idling restrictions at its facility; and requiring drivers to comply with drive speed rules to reduce fuel consumption.

GENCO Supply Chain Solutions

GREEN URL: http://tinyurl.com/2fmot9v

GENCO recently purchased 25 hydrogen fuel cell power units for use in lift trucks at a 450,000-square-foot dedicated distribution center. This sustainable solution eliminates the demand for and cost of electricity, significantly reduces greenhouse gas emissions, and removes toxic lead-acid from the workplace, replacing it with hydrogen, which generates water as a by-product. GENCO's commitment to reverse logistics and supply chain sustainability includes returning serviceable goods to market through GENCO Marketplace, a product liquidation service that pushes unwanted, repaired, and refurbished merchandise back into the sales cycle, eliminating waste and generating new revenue streams.



Low-emissions vehicle | J.B. Hunt

J.B. Hunt

GREEN URL: http://tinyurl.com/2fzujrl

J.B. Hunt has been working with Blue Source since 2003 to measure emission reductions. As part of the collaborative effort, they have developed Cool Transport, a carbon-neutral transportation service that is reducing the number of trucks on America's highways and the overall carbon footprint generated by transportation. The company is also researching the use of alternative fuel sources, engine technologies, and emissions reduction devices with its drayage fleet to help improve air quality and reduce greenhouse gas emissions. J.B. Hunt's sustainability efforts have reduced carbon dioxide emissions by 56 percent, particulate matter by 84 percent, and nitrogen oxides by 88 percent.

Hub Group

GREEN URL: http://tinyurl.com/25j2wlj

Hub Group assists shippers in achieving their green and sustainability initiatives by developing a model of the shipper's existing carbon footprint, then highlighting areas in its transportation network where it can reduce carbon emissions through intermodal conversion. In addition to identifying the areas for improvement, Hub Group helps shippers develop a strategy to implement the changes and provides comprehensive reporting to ensure that all targets and goals are obtained. Hub Group places an emphasis on working with providers who are members of the SmartWay Transport Partnership, and works with carriers that are not current members to educate them on the benefits of being a SmartWay partner.

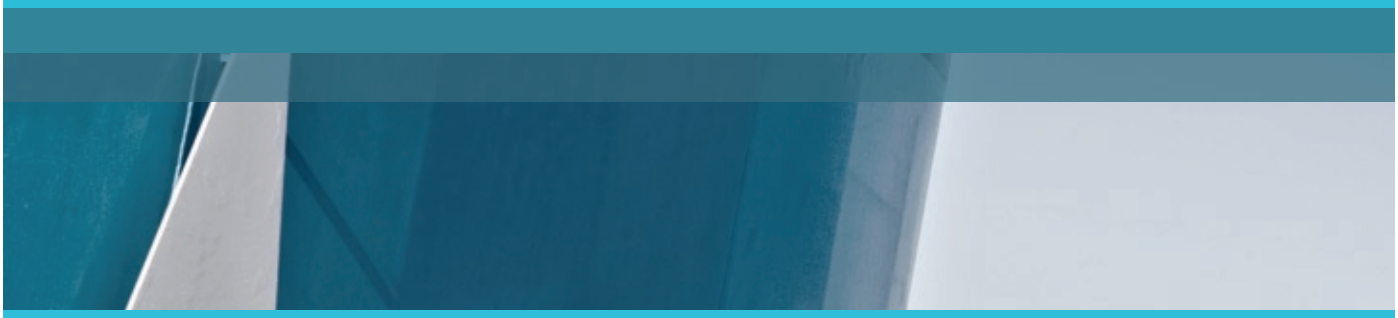
NFI Industries

GREEN URL: http://tinyurl.com/22ttfda

Each year, NFI Industries establishes fuel conservation goals and puts initiatives in place to meet them. It has lowered tractor-trailer speeds, reconfigured truck engines to reduce fuel requirements, and designed new trucks to maximize efficiency and minimize carbon output. The company has also begun using super single tires, which create less rolling resistance and less weight for the truck pull. By focusing on fuel conservation, NFI reduced CO_2 emissions by 230,711 tons, particulate matter by 42 tons, and nitrogen oxide emissions by 1,250 tons in one year. To pursue alternative energy, the NFI Solar division develops and finances renewable energy projects focused on solar power.

maerskline.com

Through innovation & collaboration **greener results** happen



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The addition of ocean transportation to your global supply chain reduces its overall carbon footprint. Add Maersk Line as your transport provider and you have a supply chain partner that is committed to innovating new ways to increase energy efficiencies and reduce the environmental impact of its operations. By working together we can support a greener, more sustainable planet.

MAERSK LINE

Penske Logistics

GREEN URL: www.PenskeLogistics.com

Penske has combined models from EPA's SmartWay program with proprietary software and hardware to benchmark truck fleet performance. This statistical data is collected at preventive maintenance intervals and helps the 3PL measure, analyze, and improve fuel economy. Between 2008 and 2009, Penske's truck fleet improved performance from 6.2 mpg to 6.6 mpg; reduced fleet idle hours from 419 hours per truck per year to 308 hours per truck per year; and reduced CO_2 emissions from 57 ounces per mile to 55 ounces per mile.

TransNeutral shipment | TransGroup Worldwide Logistics

TransGroup Worldwide Logistics

GREEN URL: http://tinyurl.com/3yjvhaj

TransGroup's TransNeutral opt-in program calculates shipment-specific carbon footprints and enables shippers to offset the CO_2 emissions that result from their shipments. For every ton of CO_2 a TransNeutral shipment puts out, another ton can be taken away or prevented. TransGroup continually enhances its green initiatives by adding asset recovery and disposition services, which help companies go green by properly recycling or discarding equipment and assets at the end of their lifecycles.

Ryder

GREEN URL: http://tinyurl.com/39yhp58

Energy-efficient tractor-trailer | Ryder

In its daily operations, Ryder tracks energy usage at all U.S. and Canadian facilities to improve efficiencies through lighting upgrades, and water and electricity conservation programs. Ryder recycles virtually all automotive waste including oils, solvents, batteries, automotive filters, vehicle and engine parts, and scrap metal. In 2009, it recycled more than three million gallons of used oil, and prevented almost 3,500 tons of emissions by recycling solid waste. The company pursues fuel conservation through its RydeSmart telematics system, a GPS vehicle-tracking and performance management system. With improved routing and detailed reports on idle time, speed performance, and driver behavior indicators, RydeSmart can reduce fuel consumption up to 10 to 15 percent per truck per day. The company also introduced RydeGreen tractors and trailers, designed to reduce fuel consumption and greenhouse gas emissions.

Werner Enterprises

GREEN URL: http://tinyurl.com/34oflu3

Werner has replaced trucks with more aerodynamic models, installed auxiliary power units, updated engine technology to maximize efficiency, reduced idle time, and developed more precise fleet management tools. In 2009, Werner Enterprises' proactive strategies saved more than 5.5 million gallons of fuel compared to 2008 and reduced CO_2 emissions by 60,000 tons.

Fuel-saving truck | Werner Enterprises

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Aerodynamic winglet | American Airlines Cargo

American Airlines Cargo

GREEN URL: http://tinyurl.com/2fymxgc

In 2009, American Airlines Cargo reduced its greenhouse gas emissions related to jet fuel by 7.1 percent, and deployed 31 new Boeing 737 aircraft that are 35 percent more fuel-efficient than the MD-80 aircraft they replaced. To date, the airline's Fuel Smart program's run-rate of annual fuel savings stands at 108 million gallons. It also installed aerodynamic winglets, which increase lift without using engine power, improving fuel efficiency. Each plane equipped with the winglets is expected to save up to 500,000 gallons of fuel annually.

Continental Air Cargo

GREEN URL: http://tinyurl.com/6u5d4m

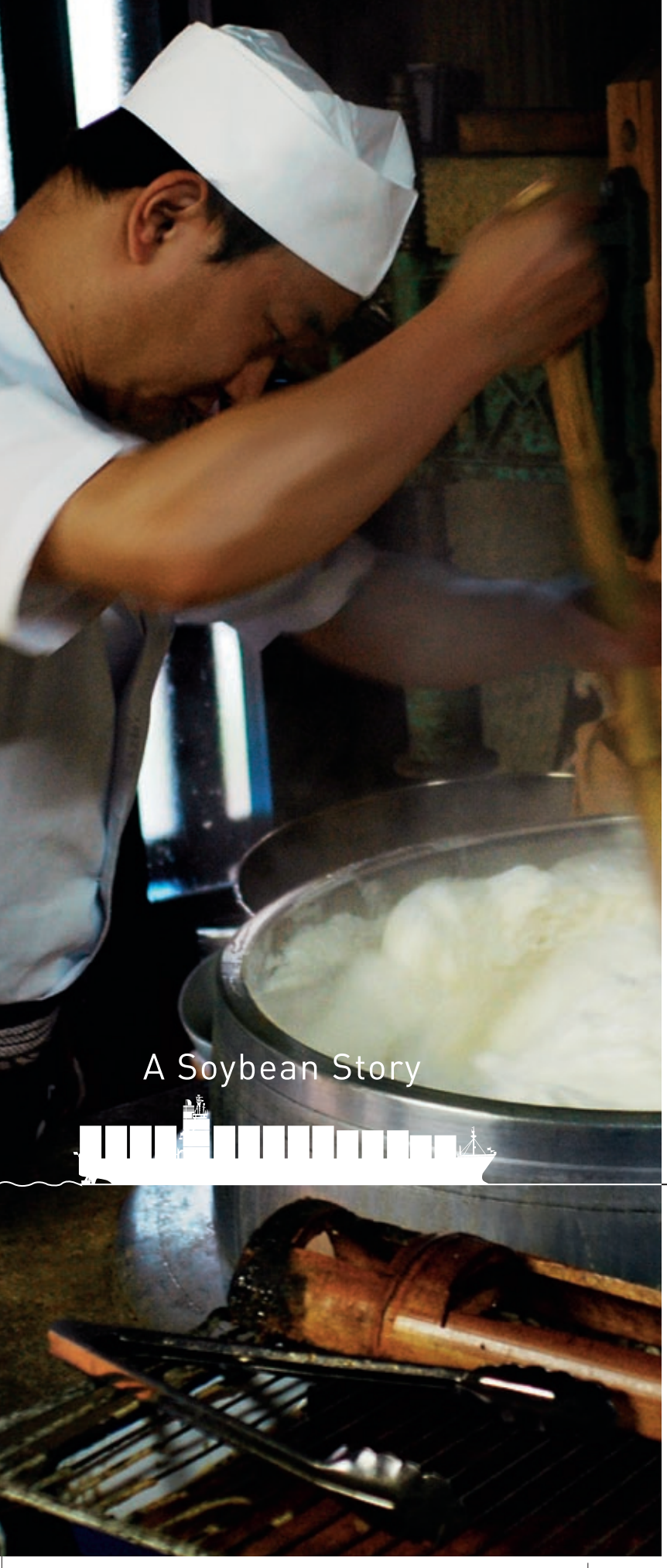
At its Houston hub, Continental has been using electric ground equipment since 2002, reducing its emissions by approximately 75 percent in one year. The airline currently operates certified low-emission vehicles in many locations and continues its proactive implementation of electric ground equipment throughout its operating system. Continental is also testing the use of alternative fuel and fuel additives for ground service equipment.

Lufthansa

GREEN URL: http://tinyurl.com/2wcu4so

In 2008, Lufthansa adopted a new strategy for environmental and climate protection through 2020. The program, which comprises 15 guidelines, is steered by the international Four-Pillar Strategy for air transport. It encompasses the entire range of practicable measures for climate protection in aviation. For example, bad weight distribution and balance in the cargo hold and transportation of unnecessary weight increases fuel consumption. Lufthansa saves fuel by balancing aircraft loading on freighters and in passenger plane bellies.

Balanced aircraft loading | Lufthansa



NYK LOGISTICS
& MEGACARRIER

Packed into an NYK containership in Victoria Harbour, Canada, a shipment of choice soybeans begins a Pacific voyage.

Shortly after arrival in Kobe, Japan, the soybeans are loaded onto trucks headed for a venerated tofu shop in Kyoto.

"This tofu is exquisite." Hearing that, the tofu master nearly smiled while going about his work in the crisp morning air. The subtle, yet sublime flavor of his blend has awakened the discerning tongue of a shopper contemplating his smooth cakes of curdled soy milk on display. Kyoto tofu is special, and he's pleased to know that his work is appreciated. Of course, his customers aren't concerned with the origin of the soybeans, or how they arrived at his renowned tofu shop. That's NYK's business. We transport all kinds of products, raw materials, fuels and resources around the world by ocean, land and air. But our business is about more than moving cargo. It's about transporting value and making it available to people whenever and wherever they want. Because soybeans are more than a commodity. They are the foundation of a grand culinary tradition. NYK transports the products and resources that give life meaning around the world.

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Bicycle delivery | DHL

DHL

GREEN URL: http://tinyurl.com/2bafx4q

To increase resource efficiency, DHL replaced parts of its truck and aircraft fleets, tested alternative technologies and fuels, and optimized routes and capacity usage. These measures helped the company improve its CO_2 efficiency index from 101 in 2008 to 98 in 2009. DHL Express's GoGreen service, a carbon-neutral shipping option piloted in 2005, allows shippers in 30 European and Asia Pacific countries to measure and offset carbon emissions generated by their shipments. In 2009, DHL shipped more than 700 million shipments with GoGreen. In metropolitan areas, delivery via scooters and bicycles also helps cut fuel usage and emissions.

FedEx

GREEN URL: http://tinyurl.com/24b28qf

FedEx currently operates the largest fleet of commercial hybrid-electric trucks in North America – more than 172. Other conservation efforts include helping shippers reconfigure their supply chains to gain efficiencies; creating packaging materials from recycled and sustainable content; and minimizing and recycling packaging materials. In 2008, FedEx recycled 17.6 million pounds of waste materials. By upgrading its fleet and optimizing routes, the FedEx Express division has improved total fleet miles per gallon within the United States by 13.7 percent since 2005, saving 45 million gallons of fuel and almost 500,000 tons of CO_2 emissions.

Hybrid vehicle | FedEx

Optimized delivery route | UPS

UPS

GREEN URL: http://tinyurl.com/29x4zjg

UPS invested in technology and business innovation to reduce its dependency on fossil fuels and minimize its energy and fuel consumption. Its surface management system helps plan aircraft takeoffs and reduce idling, saving 350,000 gallons of fuel annually. On the road, UPS optimized its dispatch planning and driver routes for annual savings of 28.5 million delivery route miles, three million gallons of fuel, and 35,000 tons of carbon emissions. UPS redesigned its express packaging to eliminate bleached paper and increase the use of post-consumer recycled content – changes that not only reduced paper usage, but also reduced the amount of energy used in the manufacturing process by 12 percent.

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MATERIALS HANDLING

Reusable pallets | CHEP

CHEP Equipment Pooling Systems

GREEN URL: http://tinyurl.com/2d8rhr6

A member of the Sustainable Packaging Coalition and Reusable Packaging Association, CHEP has been using Life Cycle Assessment methodology to quantify and reduce the environmental footprint of its reusable and recyclable pallet products and pooling services since 1999. The 2009 life cycle benefits created by manufacturers and retailers shipping on CHEP pallets amounted to saving 120 to 130 million pounds of solid waste (nearly 400,000 cubic yards of landfill space or 122 Olympic-sized pools); 2.8 to 3.4 trillion BTUs of energy (the energy equivalent of nearly 600,000 barrels of oil), and 50 to 150 tons of greenhouse gas emissions. CHEP collaborates with customers to assist them in supply chain improvement initiatives such as packaging reduction, design, and testing; unit and trailer load configuration; platform and product damage reduction; and transportation optimization.

Recycling materials | TIEM

Toyota Industrial Equipment Manufacturing (TIEM)

GREEN URL: http://tinyurl.com/2b4evfj

TIEM reduced its carbon footprint by three percent in 2008 through process improvements and controlling electrical and natural gas usage, and has set a goal to reduce CO_2 output by three percent annually. A zero landfill company, TIEM has established a recycling program for paper, cardboard, plastic, wood, scrap steel, aluminum, copper/brass, used oil and coolant, and lamps. It sends any materials that cannot be recycled to a waste-to-energy facility. Its new 8-Series IC lift truck models are completely cadmium- and mercury-free, and produce 70 percent less smog-forming emissions than current standards. TIEM has established a list of 26 hazardous chemicals that must be eliminated or reduced in materials used to build its products. All vendors and suppliers must meet this requirement.

OCEAN

APL

GREEN URL: http://tinyurl.com/2377qrs

In addition to implementing ship speed reductions and low-sulfur fuel usage, APL introduced new 53-foot containers, which increase efficiency and reduce the need for off-dock transloading, resulting in fewer truck runs and a corresponding reduction in emissions. In December 2009, APL announced an initiative to clean the air at the Port of Oakland. Starting in 2011, three years before regulations require, APL will cold-iron its ships at berth, switching off vessels' diesel generators and relying instead on shore-side electrical power. By making the switch, APL will cut more than 25 tons of nitrogen oxide emissions – a leading component of smog – from ships berthed in Oakland, plus 1,500 pounds of particulate matter annually.

Evergreen Line

GREEN URL: http://tinyurl.com/ybmz465

Evergreen maintains its own team to design ships that enable the line to load more containers and save fuel oil with optimal energy efficiency. Its new Greenships feature a double-skinned hull in which all fuel tanks are situated within the transverse bulkhead spaces, minimizing the risk of oil pollution or fire as a result of grounding or collision. The carrier opened its Evergreen Seafarer Training Center in 1999 to reduce the risk of accidents or environmental pollution at sea. A staff of scientists and engineers continuously monitors best practices and environmental analyses, so Evergreen can report footprint, fuel use, speed, and per-container natural resource use for every voyage.

Horizon Lines

GREEN URL: http://tinyurl.com/2fcwla8

The Chamber of Shipping of America recently recognized 13 Horizon Lines vessels for environmental excellence. The ships have a combined total of more than 94 consecutive years of operation without any environmental incidents. To mitigate the environmental impact of transportation, Horizon Lines created its AeroGreen carbon offset solution, which calculates the amount of carbon dioxide emitted by each shipment. Shippers can offset the emissions generated by their shipments via the purchase of Verified Emission Reduction credits. Horizon Lines' sustainability initiatives also include reducing empty backhaul miles through logistics network optimization, reducing fossil fuel consumption, and using recycled materials to build containers.

Energy-efficient vessel | Maersk Line

Maersk Line

GREEN URL: http://tinyurl.com/2aj3pds

Maersk Line reduced its CO_2 footprint 20 percent since 2002, and set a target to reduce container vessel carbon emissions by another 20 percent per container moved between 2007 and 2017. Environmental initiatives include implementing a waste heat recovery system on 32 ships, saving up to 10 percent of fuel at optimum conditions; and reducing ship speeds by five to 10 percent, which cuts both fuel consumption and CO_2 emissions by more than 15 percent.

NYK Line

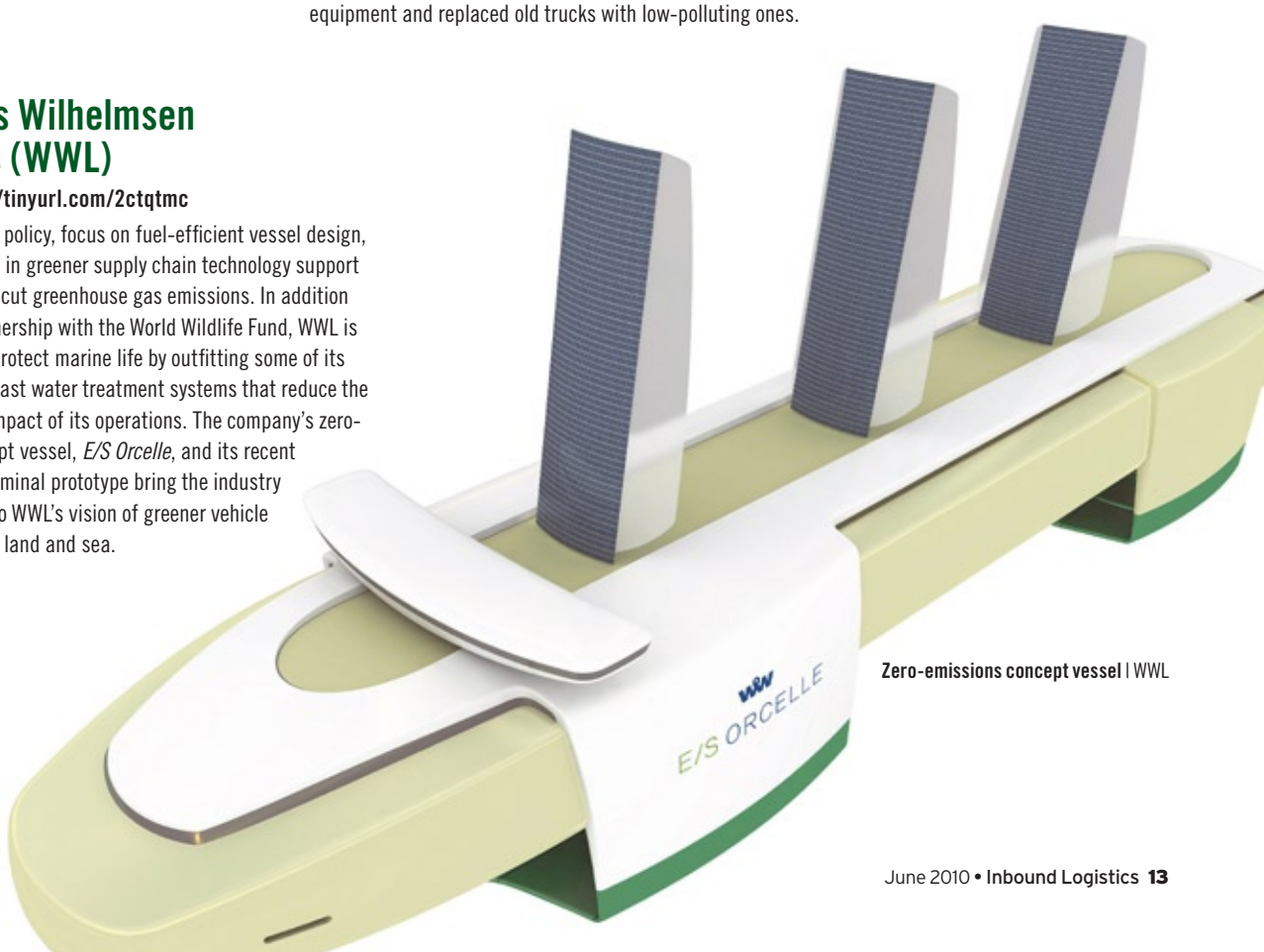
GREEN URL: http://tinyurl.com/2dqllsl

Most of NYK Line's large vessels have been outfitted with exhaust gas economizers, which turn a turbogenerator with steam generated from the main engine's waste energy. The turbogenerator provides the electricity used on board during navigation. At domestic terminals, NYK uses fuel additives to reduce soot and improve fuel efficiency, cutting air pollution. It also implemented hybrid cargo-handling equipment and replaced old trucks with low-polluting ones.

Wallenius Wilhelmsen Logistics (WWL)

GREEN URL: http://tinyurl.com/2ctqtmc

A low-sulfur fuel policy, focus on fuel-efficient vessel design, and investments in greener supply chain technology support WWL's efforts to cut greenhouse gas emissions. In addition to its close partnership with the World Wildlife Fund, WWL is taking steps to protect marine life by outfitting some of its vessels with ballast water treatment systems that reduce the environmental impact of its operations. The company's zero-emissions concept vessel, *E/S Orcelle*, and its recent Castor Green Terminal prototype bring the industry one step closer to WWL's vision of greener vehicle logistics on both land and sea.



Zero-emissions concept vessel | WWL

Wildlife protection | Port of Charleston

Port of Charleston

GREEN URL: http://tinyurl.com/2afedew

As part of the South Carolina State Ports Authority, the Port of Charleston participates in Pledge for Growth, an organizational commitment to protecting and enhancing the surrounding community and environment. A $12-million mitigation plan offsets the impacts of port development through initiatives such as restoring and adding 22 acres of tidal marshes, protecting aquatic wildlife, reducing port-related air emissions, and funding an air monitoring station. In addition, the port recently replaced four diesel-electric container cranes with all-electric models and has retired older equipment.

Port of Los Angeles

GREEN URL: http://tinyurl.com/2542kpa

The Port of Los Angeles achieves its goal of balancing growth and development with environmental considerations through more efficient cargo-handling operations; improved infrastructure; and biological, industrial, and environmental efforts such as its Clean Trucks Program. The port's Alternative Maritime Power air quality initiative focuses on reducing emissions from docked container vessels. Instead of running on diesel power while at berth, AMP-equipped ships "plug in" to shore-side electrical power – literally an alternative power source for oceangoing vessels. The port has been monitoring water quality at 31 established stations since 1967. Today, it tests samples monthly, and the water quality at the Port of Los Angeles is the best of any industrialized port in the world.

Port of Long Beach

GREEN URL: http://tinyurl.com/88w9u9

Through its Green Port Policy, the Port of Long Beach is reducing harmful air emissions from port-related operations, improving water quality in the harbor, protecting marine wildlife, and implementing environmentally sustainable practices throughout the port. Air pollution from ships, locomotives, trucks, and other port-related sources dropped significantly from 2005 to 2008, including a 21-percent decrease in diesel particulate matter. The port's "shore power" docks allow ships to plug in to clean electricity and decrease pollution.

Shore power | Port of Long Beach

North Carolina Ports Authority

GREEN URL: http://tinyurl.com/2dzl7at

Project Energy, the North Carolina Ports Authority's environmental initiative, focuses on electricity and fuel usage, emissions, alternative energies, recycling, and hybrid technologies. By using ultra-low sulfur diesel as its primary off-road diesel fuel, the port estimates it will reduce both diesel consumption and emissions by 20 percent annually. Diesel/electric hybrid terminal tractors help support this goal. The Ports Authority also invested in four electric container cranes.

Port of Tacoma

GREEN URL: http://tinyurl.com/26xqojn

As a partner in the Northwest Ports Clean Air Strategy, the Port of Tacoma has adopted short- and long-term performance measures for reducing emissions from cargo-handling equipment, rail, harbor craft, ocean-going vessels, and trucks. Cargo-handling equipment uses ultra-low sulfur diesel, biodiesel, and other cleaner-burning fuels, and ships use low-sulfur fuels at berth. To balance its environmental impact, the Port of Tacoma restores habitat sites for salmon and other wildlife, and invests in a range of cleanup and improvement projects in and around Commencement Bay.

Environmental improvement | Port of Tacoma

In 2009, at DSC Logistics' Founder's Day, which is the annual celebration of our founding in 1960, we focused on "We Think Greener" as a way to strengthen our commitment to working and living more sustainability. Here are highlights of some of the steps we've taken since then. DSC has…

- Implemented a program of recycling corrugated materials at Logistics Centers throughout our nationwide network
- Launched a communication campaign with bi-monthly "Green Tips" e-mails to all employees and "Green Boards" at all Logistics Centers
- Published a Giant Green List of 120 ideas submitted by our employees
- Created a Task Force to align our efforts with our Partners' sustainability initiatives
- Compiled a report on environmentally-friendly cleaning products
- Initiated a project to study and calculate our company's Carbon Footprint
- Been named one of 50 Green Supply Chain Partners by *Inbound Logistics*

This year is our 50th Anniversary – and we're focused on the future. A **sustainable** future!

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BNSF

GREEN URL: http://tinyurl.com/22qer5o

The rail carrier is initiating several technologies designed to reduce emissions, including idle control, GenSet switch locomotives, electric wide-span cranes, and an intermodal automated gate system. BNSF has boosted fuel efficiency by 7.7 percent since 1999, and has acquired new locomotives that are about 15 percent more fuel-efficient than the engines they replaced. In 2007, BNSF became the first railroad to sponsor low-emissions natural gas hostler trucks to move containers within an intermodal facility. The carrier is also testing low-emissions liquefied natural gas switch locomotives, and is working with a partner and the U.S. DoD to develop an experimental hydrogen fuel cell switch locomotive that has the potential to reduce air pollution and is not dependent on oil for fuel.

Fuel-efficient locomotive | CN

CN

GREEN URL: http://tinyurl.com/298e3r5

CN's Environmental Policy programs and processes minimize the impact of its activities on the environment. For example, CN invested significant capital to acquire more than 100 new fuel-efficient, high-horsepower locomotives, which produce 40 percent less nitrogen oxides and are at least 15 to 20 percent more fuel-efficient than the locomotives they replaced. And, in conjunction with the Railway Association of Canada, CN renegotiated a voluntary agreement with Environment Canada and Transport Canada to further reduce its emissions intensity over time. The rail carrier also offers a greenhouse gas emissions calculator that allows shippers to measure emissions savings for shipments using CN versus truck.

Low-emissions train | CSX

CSX

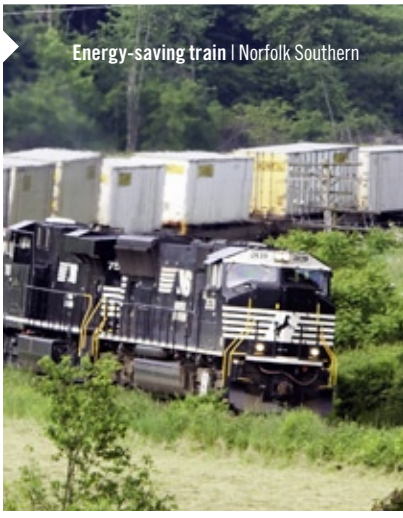
GREEN URL: http://tinyurl.com/yhofzup

Since 2000, CSX has invested more than $1 billion to upgrade its fleet with efficient, Tier II clean air locomotives, which meet the latest EPA emission requirements. An additional 1,200 CSX locomotives will be upgraded to further reduce emissions and lower fuel consumption by nearly 10 million gallons. CSX continues to implement locomotive shutdown systems to reduce fuel consumption and related emissions. These efforts include the CSX-designed Auxiliary Power Unit, an idle reduction device that reduces nitrogen oxide emissions by 91 percent, hydrocarbons by 95 percent, carbon monoxide by 96 percent, and particulate matter by 84 percent.

Norfolk Southern

GREEN URL: http://tinyurl.com/32g4kcb

Norfolk Southern is investing more than $100 million to upgrade its locomotive fleet to comply with EPA emissions standards. Upgrades include equipping some locomotives with distributive power capability to potentially lower fuel consumption. It also recently unveiled the latest in alternative energy locomotive technology: a prototype 1,500-horsepower switching locomotive that relies solely on rechargeable batteries for power. The rail carrier also has developed more efficient train-handling systems such as LEADER, or Locomotive Engineer Assist Display Event Recorder. The system functions using mathematical formulas to calculate optimal train-handling methods in real time, based on line segment grade and curvature. The information is displayed directly to train crews, helping them conserve fuel and reduce emissions.



Energy-saving train | Norfolk Southern

Union Pacific

GREEN URL: http://tinyurl.com/ylbwl66

Union Pacific's vision is to be recognized as the environmentally responsible transportation leader. To that end, it is continually improving fuel efficiency through better locomotive technology, engineer training, and employee involvement. The result: Since 1998, UP has achieved a 20-percent improvement in fuel efficiency. In 2009 alone, Union Pacific saved more than 40 million gallons of diesel fuel. At the same time, Union Pacific's transportation plan increases traffic flow and asset utilization, both of which lower fuel consumption. The carrier continues to develop and invest in new technologies that provide for cleaner air and water.

Global logistics. Individual solutions.

GREEN your supply chain

Reduce supply chain carbon emissions and reduce costs

Damco SupplyChain CarbonCheck™

Due to the increased need and desire to reduce CO_2 emissions in global supply chains, Damco offers a tool, the SupplyChain CarbonCheck™ that analyzes the carbon footprint of supply chains.

How does it work? Alternate supply chain configurations, with estimated carbon footprints for each, are compared to a company's current carbon footprint. The comparison reveals carbon emission reduction potentials and supply chain cost savings opportunities. The scenarios that have the highest impact and best fit are evaluated and the revised supply chain configuration is implemented and emissions effects are tracked. Any remaining CO_2 emissions can be offset through Damco.

Please visit www.damco.com to learn how you can increase your supply chain efficiency and reduce your impact on our environment.

Damco is one of the worlds leading providers of freight forwarding, supply chain management services and optimization. We have 270 offices all over the world and a staff of 10,500 highly trained logistics professionals moving a volume of over 2.5 million TEUs and over 60,000 tons of air freight annually. For more than 20 years, Damco has been providing our customers with transportation and logistics solutions worldwide.

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Speed-governed engine | ABF

ABF

GREEN URL: http://tinyurl.com/33s4ytx

ABF's Linehaul Planning System eliminates partial and empty road driver dispatches, reducing labor, fuel, and tractor expenses. The carrier has also reduced fuel consumption and enhanced operational efficiency through best practices that include a strictly followed equipment maintenance/replacement program. The average age of ABF equipment is 15 months for road tractors and six years for city tractors. This ensures ABF operates the cleanest, best-maintained, and most fuel-efficient engines available. Road tractors are speed governed to 62 miles per hour to ensure maximum fuel efficiency, resulting in a 33.5-ton CO_2 emissions reduction per tractor compared to 68 mph limits. ABF favors above-ground fuel storage systems over underground tanks; the carrier has reduced the number of its underground tanks by 64 percent since October 1995. All new storage tank installations are state-of-the-art systems with double-wall fiberglass tanks and lines, spill/overflow prevention, and electronic tank monitoring systems.

Averitt Express

GREEN URL: http://tinyurl.com/34n6fa7

Fuel conservation is a primary focus for Averitt Express. Some steps the carrier takes to achieve fuel efficiency include: using only ultra-low sulfur diesel at in-house fueling stations, which helps reduce emissions of particulate matter and nitrogen oxides; using biodiesel in select markets; equipping road tractors with auxiliary power units to reduce fuel use through idling when parked for extended periods; installing technology that gathers data from tractor engine computers to track and measure fuel efficiency on an individual tractor level and shut down idling engines; and using route-planning software.

In-house fueling station | Averitt

Fuel-saving truck | Bison Transport

Bison Transport

GREEN URL: http://tinyurl.com/34sv4xu

Purchasing advanced equipment that employs multiple fuel-saving devices, Canada's Bison Transport developed a transportation network that uses long combination vehicles and rail to move freight, reducing its fuel consumption by 127 gallons and greenhouse gas emissions by 1.5 tons for every 1,000 miles traveled. The carrier has implemented both speed limits and idle time expectations in order to improve fuel efficiency, and uses simulation technology and computer-based training to instill fuel-saving habits in its drivers.

Celadon

GREEN URL: http://tinyurl.com/256cl2k

Celadon has adopted fuel-saving strategies and is actively evaluating emerging green technologies. The motor carrier installed auxiliary air heaters on all trucks to eliminate the engine's need to idle in cold weather; added ambient air temperature sensors on all trucks to override the engine's ability to run between the ambient of 70-20 degrees F; equipped trucks and trailers with the most fuel-efficient dual tires on the market; accelerated new truck purchases over a two-year period so that the entire fleet consists of engines compliant in SmartWay-certified tractors; reduced the weight of 2,149 trucks in its fleet by 300 pounds each by converting them to aluminum wheels; reduced maximum road speed for the entire fleet; and cut fleet idle time by 19 percent.

Challenger

GREEN URL: http://tinyurl.com/2w5k5lf

While reducing fuel consumption is a continuing mandate at Challenger, its goal is to improve fuel economy by 10 percent during the next three years. To that end, the motor carrier has worked closely with owner/operators on their software for shifting in automatic transmissions; replaced double tires with super-single-tires where possible to improve rolling resistance; installed alternate power units to maintain cab temperature and recharge batteries to reduce idling time; and enabled driver trainers to download data from its satellite monitor to analyze trucks' engine operation and driver road management skills. Challenger is not only green on the roads, but also at its new corporate headquarters in Cambridge, Ontario. The site has received LEED certification and incorporates features and strategies that effectively use the land and minimize the environmental impact of construction and operations.

Con-way

GREEN URL: http://tinyurl.com/36x5b83

Con-way Inc. has established a framework for a sustainability evaluation for every functional process in the shared services organization, including reducing fuel consumption at Con-way Freight and Con-way Truckload, implementing recycling and waste reduction practices, reducing energy usage, and utilizing green suppliers whenever possible. Con-way Freight reduced truck speeds from 65 to 62 mph in 2008, installed low-profile tires to improve rolling resistance and reduce weight, tuned engines for optimal fuel economy, reduced trailer weight, and added idle-monitoring programs. Con-way Truckload reduced truck speeds from 70 to 65 mph in 2008; lowered truck spec weight by 670 pounds, saving 11,400 gallons of diesel fuel each year; and converted all its tractors to single wide-base tires, with plans to convert 75 percent of trailers by the end of 2010.

Aerodynamic tractor | CR England

C.R. England

GREEN URL: http://tinyurl.com/2avybpk

C.R. England performs continuous testing on new green technologies. For example, the carrier currently is testing 100 side skirts for increased trailer aerodynamics. If the field tests yield positive results, the company will save almost three million gallons of fuel annually. In addition, C.R. England is cutting fuel emissions through reducing idle time and maximum speed for all trucks, purchasing more fuel-efficient equipment, testing and implementing aerodynamic technologies, and using paperless logs. Through these initiatives, C.R. England saved an average of 627,000 gallons of fuel per month in 2009.

Idle-limiting truck engine | Old Dominion

Old Dominion

GREEN URL: http://tinyurl.com/24smho3

Old Dominion has implemented a number of green measures in all of its 31 fleet shops and 210 service centers located in the lower 48 states. These measures include drive-through truck washers with oil-water separators that allow wash water to be recycled. Additionally, Old Dominion tractors feature idle timers that turn off the engine after three minutes of idling to eliminate excess emissions. The carrier also contracts with licensed companies to pick up and recycle waste oil, filters, and antifreeze; uses energy-efficient lighting and HVAC units; and has eliminated the use of chlorofluorocarbon refrigerants.

Schneider National

GREEN URL: http://tinyurl.com/24rjstn

Low-rolling resistance tires | Schneider National

Schneider National takes a comprehensive approach to improving fuel efficiency, reducing greenhouse gas emissions, and upgrading its facilities' energy efficiency. Since 1998, the carrier's investment in sustainable, low-emission engines has reduced particulate and nitrogen oxide emissions by more than 80 percent. Its green initiatives include reducing fleet speed to 60 mph; specing trucks to include energy-efficient and aerodynamic features, such as low-rolling resistance tires; and employing an on-site team of engineers to test and validate new energy-efficient technologies. In addition, the company transformed its intermodal footprint in 2008 when it converted its fleet to all stackable containers.

Swift

GREEN URL: http://tinyurl.com/2epqplj

Swift Transportation is on the forefront of reducing the trucking industry's carbon footprint, as evidenced by the multiple awards it has won for its leadership in conserving energy and reducing greenhouse gas emissions. The carrier recently received an Environmental Excellence Award from the EPA's SmartWay Transport Partnership for its sustainability leadership in conserving energy and was recognized by Arizona's Maricopa County Air Quality Department for its participation in clean air initiatives. Swift's Clean Fleet is the first of its kind and the largest fleet of trucks – 16,500 – committed to adopting the latest green technologies.

Hybrid vehicle | YRC Worldwide

YRC Worldwide

GREEN URL: www.yrcw.com/green/index.html

In 2009, YRC Worldwide integrated two LTL networks, Yellow and Roadway, into one system, reducing empty miles, increasing load optimization, and eliminating equipment redundancy. The carrier limits truck speeds to 63 miles per hour, which saves millions of gallons of fuel each year. The entire fleet is being outfitted with new fuel-efficient tires that reduce consumption by two to four percent. The company also maintains a tire-pressure program that ensures all tires are properly inflated, which reduces fuel use by millions of gallons annually.

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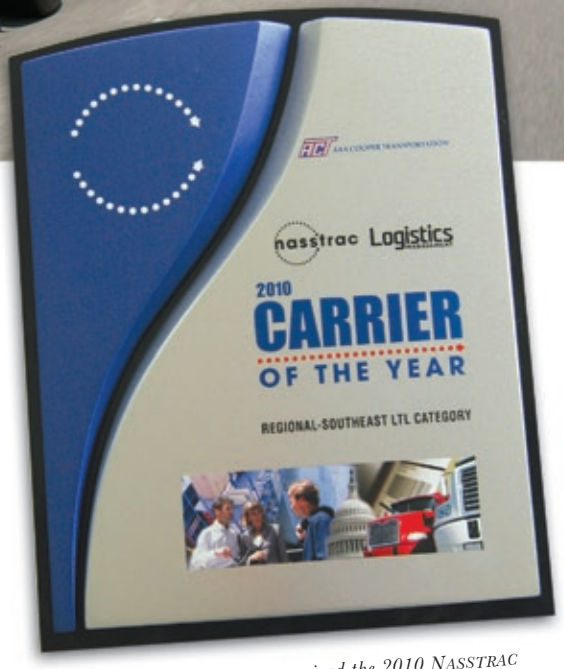

AAA Cooper Transportation received the 2010 NASSTRAC Carrier of the Year Award in the Regional-Southeast Category.

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