



BSR's Clean Cargo Working Group (CCWG)

US Dept. of Transportation
Talking Freight Webinar

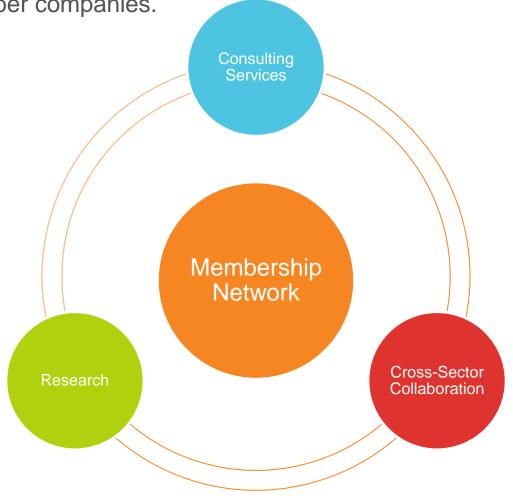
April 2014

BSR's Mission and Strategy

Our mission: We work with business to create a just and sustainable world.

Our strategy: We develop sustainable business strategies and solutions through consulting, research, and cross-sector collaboration with our global network of more than 250 member companies.

- Insights gained from our research and collaborative partnerships feed our consulting work.
- Our real-world experience working closely with member companies informs our research.
- Our cross-sector efforts build on our extensive network of members and stakeholders.







50 ≈ Countries

≈100 Staff

8 Offices

BSR Transport & Logistics Practice

Mission: BSR works with companies and stakeholders across the transport supply chain to address sustainability expectations and integrate ethical, social, and environmental practices into the global logistics value chain.

Graphic credit: DAMCO



Scope of Work

Sustainability strategy & reporting

Measurement and evaluation

Industry collaborations

Member engagement

Example Initiatives and Member Companies











Clean Cargo Working Group



Transportation contributes to climate change and air pollution, but there is no reliable way to track freight's role

Transportation generates approximately 1/4 of energy-related GHG emissions globally and is the fastest rising source of emissions. Transportation service buyers seek credible and comparable information on environmental impacts.

The Challenge:

- Transportation accounts for about a quarter of global energy-related carbon emissions and these have risen faster than any other energy end-use sector.
- Without aggressive and sustained policy interventions, transport carbon emissions could increase by 70% by 2050, again outstripping all other sectors.
- Shippers buyers of transport services require credible and comparable information to understand and manage these emissions.



Climate Change







CCWG is a global B2B membership initiative that measures, evaluates, and reports environmental performance

Carriers















































































We represent industry with annual data used by shippers in procurement that improves environmental performance

Global initiative of carriers and shippers, dedicated to environmental performance improvement in ocean transport through measurement, evaluation, and reporting.

Key points:

- Provides reliable year-over-year emissions performance data from 23 of the world's leading ocean carriers that represent approximately 85% of global ocean trade.
- 95% of cargo transport buyers in CCWG use **CCWG data and tools** in procurement decisions and in supplier relationships with cargo carriers.
- CCWG Carriers have offset CO2 percontainer-mile an average of 16% since 2009.





























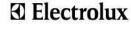










































Tools and Alignment



The Clean Cargo annual data collection process includes quantitative and qualitative data from 23 global carriers

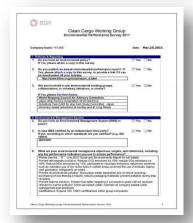
1. Clean Cargo Carrier Environmental Performance Metrics (EPM):

- Standardized set of metrics for assessing ocean carriers' environmental performance – vessel by vessel incl. CO2 using an industry std. methodology
- Verification of carrier information
- Shippers receive individual 'Carrier Scorecards'

The company of the co

2. Carrier Environmental Performance Survey (EPS):

- Gathers qualitative information on carriers' environmental management and performance annually
- Regular review of alignment with standard shipper questionnaires
- Shippers receive carrier specific EPS



A Verified Process:

 Verification protocol drafted in 2010 with Lloyds Register and others, in collaboration with all members to define scope and depth

Assessing Key Areas of Performance:

- CO₂ SOx and NOx
- Waste management, water effluents, chemical use
 - EMS, transparency



Tool 1 - Member Reporting: Sample Carrier Scorecard

Environmental performance data is rolled into an easy-to-use scorecard:

Clean Cargo Working Group **Environmental Performance Assessment 2012** (Based on 2011 Data)

Scorecard

Breakdown of carrier CO₂ emissions per trade lane

Carrier Name: Sample Carrier Data Verified? Yes Bureau Veritas Certification

ABLE 3 - CO2 PERFORMANCE DETAILS			DRY CONTAINERS				/ REEFERS			
CO2 Emissions - by trade Lane	2 of Fleet	Reported On		s C02/		CWG	Points	grams CO2/	CCVG	Points
	Owned	Time-Chartered	Т Т	EU-L	Ba	seline"		TEU-km	Baseline"	
AsiaAfrica	100%	100%		92.3		88.7	50.0	131.2	121.7	50.0
AsiaSouth America (EC/WC)	100%	100%		73.4		89.0	100.0	105.8	116.6	75.0
AsiaOceania		100%		100.8		89.9	50.0	145.3	117.8	50.0
AsiaNorth Europe	100%	100%		55.3		73.1	109.0	81.8	100.6	100.0
AsiaMediterranean	100%	100%		67.3		76.3	100.0	102.1	106.6	75.0
AsiaNorth America EC	100%	100%		72.5		85.7	100.0	36.4	110.8	100.0
AsiaNorth America WC	100%	100%		57.6		84.0	100.0	88.0	110.4	100.0
AsiaMiddle East/India	100%	100%		67.1		79.5	100.0	99.3	109.3	75.0
North EuropeNorth America EC (incl. Gulf)	100%	100%		72.1		82.4	100.0	101.5	112.5	75.0
North EuropeNorth America WC				-		89.5			119.2	
MediterraneanNorth America EC (incl. Gulf)	100%	100%		89.5		83/6	50.0	129.6	112.3	50.0
MediterraneanNorth America WC				-		9.5			101.6	
Europe (North & Med)Middle East/India	100%	100%		73.3		71.6	50.0	109.3	102.2	50.0
Europe (North & Med)Africa		100%		73.2		74.5	75.0	102.9	108.2	75.0
Europe (North & Med)Oceania (via Suez / via Panama)		100%		89.2		98.7	75.0	119.8	200.4	100.0
Europe (North & Med)Latin America/South America		100%		120.3		94.8	50.0	154.3	124.0	50.0
North AmericaAfrica						129.6			180.2	
North America ECMiddle East/India	100%			93.2		80.6	50.0	114.3	106.9	50.0
North AmericaSouth America (EC/WC)				-		87.7			117.8	
North AmericaOceania			1			103.1			136.7	
South America (EC/WC)Africa			1	-		80.9			111.1	
ntra-Americas (Caribbean)		100%	1	106.5		85.0	50.0	143.2	113.3	50.0
ntra-Asia	100%	100%		133.3		76.3	50.0	193.6	107.1	50.0
ntra-Europe		100%		137.9	7	74.1	50.0	194.3	105.1	50.0
Other	100%	100%		146.5		116.0	50.0	218.6	153.8	50.0
Fleet-wide CO2 Performance				69.4			71	101.2		67
*CCWG Barolino in the CCWG 2009 average.							out of 100			out of 10



Tool 2 - Member Reporting: Annual aggregated industry performance data

CCWG has gathered CO2, SOX, NOx emissions data from 10+ carriers for 7 years – reflecting one of the largest environmental data sets in the shipping industry

- Aggregated environmental performance data is released to membership annually, highlighting industry-wide performance.
- Data can be used to benchmark individual carriers against industry performance



Clean Cargo carriers 2014 represent over

85% of global ocean container capacity

16%
CO₂ emissions decrease (g/TEU-km) since 2009, on average.

Clean Cargo gathers environmental data for more than

3,000 container vessels

Tool 3 - Other Tools: CCWG Intermodal Emissions Calculator

Tool that allows members to calculate the absolute carbon emissions associated with moving goods

- Uses the best available emissions factors, including primary data from Clean Cargo carriers
- Is consistent with WRI's GHG Protocol methodology
- Accommodates all modes (ocean, rail, air, road)
- Working in collaboration with tool developers to share lessons





How Members Benefit from CCWG



Outcome: Tools allows shippers to quantify supply chain footprints, and compare carriers and routes.



Routing Via	Total Distance	CO2/FFE
Miami	2574 km	1.47 kg
Savannah	2601 km	0.82 kg
Difference	1%	-44%

Vessel Operator	Emissions Factor (g/TEU-km)
Carrier A	76.5
Carrier B	69.3
Carrier C	92.7



Outcome: Alignment with other initiatives drives environmental improvements across the industry

- » CCWG CO2 methodology is the ocean container segment standard – influencing entire maritime segment & other modes
- CCWG works to align and harmonize environmental methodologies globally across modes
- Collaboration and dialogue between existing and emerging initiatives drives transparency and improvements

























Methodology allows Maersk to measure and report performance

CCWG aligns with Maersk's performance goals and provides a forum with customers to meet their needs.



Value to Maersk:

- A platform for dialogue and alignment of container lines and customers, which enable it to meet customer requirements and needs
- » Develops and establishes industry standards for container shipping
- » Credible and comparable CO2 calculations, internal benchmarking for container lines and informed decision making
- » CCWG takes proactive part of harmonizing CO2 methodologies across modes, enabling comparison across the supply chain

"Over the last five years, CCWG has become the standard way of measuring environmental impacts in the container shipping industry." –Maersk Line Sustainability Progress

Update 2013



Collaboration helps Nike to meet ambitious sustainability targets and goals

Nike uses CCWG to meet its environmental goals by measuring performance and comparing carriers.



- » CCWG enables standard expectations of environmental capabilities using a methodology for reporting environmental performance
- » Visibility to year over year industry performance improvement, as well as improved transparency and verification
- » BSR provides active facilitation to exchange ideas and share expectations between Shippers and Carriers



"To sharpen the focus, it is critical to pick the right partners and ideas, then invest appropriately." – Dawn Vance, Director of Logistics Sustainability



Alignment with industry initiatives means Electrolux can reduce emissions across its entire transportation chain

CCWG provides tools to reduce one if Electrolux's highest emissions sources and align with cross-industry standards.

Electrolux

Value to Electrolux:

- » Alignment with other initiatives helps Electrolux influence development of standards suited for the industry.
- » Provides a detailed understanding of data, including weaknesses and opportunities for enhancements.
- Electrolux pushes for continuous data improvements and for more complete coverage of total ocean shipping.

"Electrolux found that emissions [from transport] are at least as high as energy use from operations. This reinforced the importance of working to reduce the company's transportation footprint through initiatives like Clean Cargo." -Gorm Kjærbøll, Ocean Operations Manager



Thank you!

Contacts:

Nate Springer (Presenter) – nspringer@bsr.org
Project Manager, Clean Cargo Working Group

Angie Farrag-Thibault - afarrag-thibault@bsr.org

Project Director, Clean Cargo Working Group



Key Transportation & Logistics Contacts



Eric Olson | Senior Vice President, Advisory Services
San Francisco
eolson@bsr.org



Peder Michael Pruzan-Jorgensen | Vice President, Europe, Middle East, and Africa Copenhagen ppruzan-jorgensen@bsr.org



Angie Farrag-Thibault | Associate Director,
Transportation & Logistics
Copenhagen
afarrag-thibault@bsr.org



Laura Ediger | Associate Director, Advisory Services

Hong Kong
lediger@bsr.org



Nate Springer | Manager, Advisory Services
San Francisco
nspringer@bsr.org