

ACT 2014 EXPO

ALTERNATIVE CLEAN TRANSPORTATION

MAY 5-8, 2014
Long Beach Convention Center
Southern California, USA

CO-LOCATED WITH



ACT EXPO 2014 PRESENTING SPONSORS



NGV GLOBAL 2014 HOST ORGANIZATION



OTHER CO-LOCATED EVENTS



EVENT SUMMARY

**All Alternative Fuels • All Weight Classes
North America's Largest Clean Fleet Expo**

EVENT PARTNERS



Gladstein, Neandross & Associates, organizers of ACT Expo and NGV Global 2014, would like to thank the following organizations for their support in making the show a tremendous success.

ACT Expo 2014 Presenting Sponsors



NGV Global 2014 Host Organization



Platinum Sponsors



Gold Sponsors



Silver Sponsors



Silver Sponsors (continued)



Kickoff Reception Sponsor



Luncheon Sponsor



Breakfast Sponsor



Aisle Sign Sponsor



Tote Bag Sponsor



Lanyard Sponsor



Pen Sponsor



Name Badge Sponsor



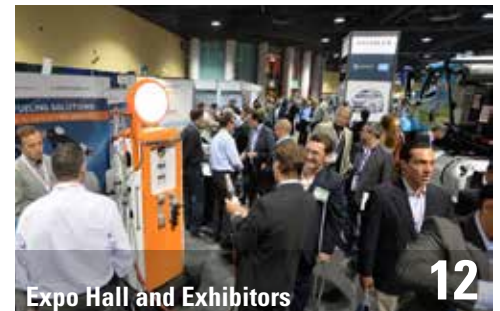
Media Partners



Endorsing Organizations



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2014 Event Recap

The 2014 Alternative Clean Transportation (ACT) Expo shattered multiple records to confirm its position as the largest clean fleet event in North America's history. The buzz following the show is being heard around the globe, as the 4,434 attendees from six continents take their learnings and hands-on experiences back home. ACT Expo was one show not to be missed, as several dozen industry announcements and product debuts took place throughout the week and on the sold-out show floor!

More than 30 transportation and alternative fuel industry associations endorsed the event, joining an impressive group of event partners—the American Trucking Associations, NAFA Fleet Management Association, the US DOE's Clean Cities program, and the US EPA's SmartWay program. The Propane Education and Research Council returned as a presenting sponsor, along with the South Coast Air Quality Management District.

ACT Expo hosted multiple co-located events throughout the week, including: NGV Global 2014; PERC's Lead the Way Event; the California Hydrogen Business Council Spring Summit; a Trucking Efficiency workshop led by the North American Council for Freight Efficiency and Carbon War Room; a SmartWay workshop led by Penske; a Women in ACT Summit; an Alternative Fuel Toolkit workshop by the AQMD; and the BSR Future of Fuels Spring Forum.

With a focus on peer-to-peer learning, the nearly 60 tailored alternative fuel engine, equipment, and infrastructure sessions featured case studies from dozens of leading public and private fleet operators—including Anheuser-Busch, AT&T, Dillon Transport, Edison International, Enterprise Holdings, Frito-Lay, The Kroger Co., Pacific Gas & Electric, Penske, Ryder System, SoCalGas, UPS, USPS, Waste Management, among many others.

We invite you to mark your calendars for next year. **ACT Expo 2015 is slated for May 4-7 at the Kay Bailey Hutchison Convention Center in Dallas, Texas.**



75

vehicles for display
and ride & drive

250

industry
speakers

6

off-site
tour stops

214

sponsors and
exhibitors

53

endorsing orgs &
media partners

8

co-located
events

4,434

attendees from six
continents

760

fleet
attendees

300+

news articles in
media outlets

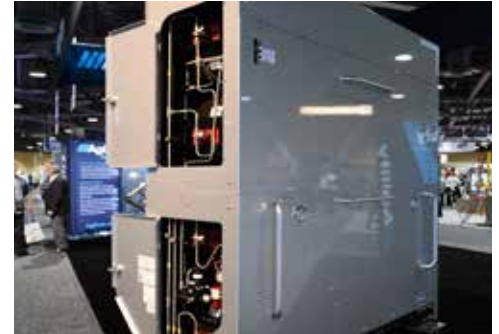
Product Debuts and Announcements

Dozens of alternative fuel and clean vehicle technology product debuts took place on the expo hall floor and throughout the week, solidifying ACT Expo as THE show to attend to stay up-to-date on clean transportation industry advancements.

Adventure introduced their patented reformer fueling system to the North American market which adapts natural fuels and alcohols to H₂ in order to reduce fuel consumption and decrease toxic emissions.



3M and Rush Enterprises announced an agreement to pursue the design, manufacture and installation of a portfolio of compressed natural gas (CNG) tanks and fuel systems for use in Class 6-8 vehicles in North America.



Agility Fuel Systems debuted its 155 DGE Behind the Cab Fuel System. The company also announced plans to create a joint venture with Hexagon Lincoln to build CNG cylinders.

Alliance Autogas announced the creation of a new consortium, BLnergie. The venture will develop, market and sell EPA and CARB certified systems for Diesel Displacement systems on heavy-duty Class 7 & 8 trucks.

Allied Group launched a new coalescing filter constructed with binder-free microglass and a choice of two types of drain layers.

ANGI Energy Systems showcased its leading CNG equipment solutions, including the new ANGI Series II Retail CNG Dispenser and the ANGI AGD Series Natural Gas Dryer.

Aqua-Hot Work Ready debuted its full product line, including a new hydronic-heating system aimed to help fleets that operate in cold weather climate zones.



Bosch engineers presented the latest technical trends and developments on clean diesel and natural gas technology in their booth at ACT Expo.



Bauer Compressors debuted the newest generation of their large capacity CNG Compressor series, the C26.0 X-Fill.

CleanFUEL USA showcased their new eCONNECT propane sale and fleet management system.

Chart Industries demonstrated its new compact liquefied natural gas (LNG) vehicle fuel system. The length of the new vehicle fuel tank system is about 4.5 percent shorter for the 2015 model year.



“ACT Expo was a key collection of vendors and companies with alternative fuels foremost in their minds.”

— U.S. General Services Administration (GSA)

Product Debuts and Announcements

Censtro Motor debuted its new all-electric utility vehicle for North America.



dHybrid Systems unveiled an advanced 145 Gallon (DGE) back of cab CNG fuel system that eliminates the need for side rail fuel storage.



Elio Motors displayed one of its three-wheeled prototype vehicles. The anticipated 84 MPG highway vehicle is set to launch next year.

Chevrolet announced pricing of the compressed natural gas (CNG) bi-fuel option for the 2015 Impala sedan, which is the first mass-produced bi-fuel passenger car to come on the market.

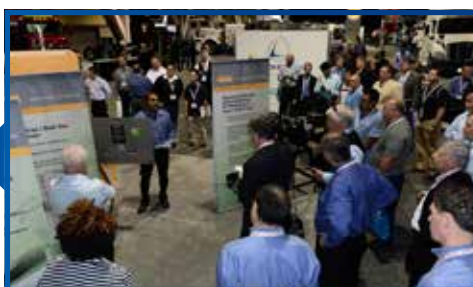


Millennium Reign Energy announced the first palletized all-in-one SHFA, (Scalable Hydrogen Fueling Appliance), designed for home refueling of fuel cell cars and forklifts.



Luxfer introduced a new line of G-Stor Go Type IV CNG cylinders, the latest addition to Luxfer's growing G-Stor line of lightweight cylinders for containment of clean-burning, environmentally friendly compressed natural gas.

Optimus Technologies showcased its first-to-market pure biofuel conversion system, the Optimus Vector System, which reduces fuel costs up to 25 percent and emissions up to 80 percent.



Parker Hannifin introduced its complete industrial and fleet fuel dispensing solutions for high-flow, high-cycle compressed natural gas (CNG) applications.

CleanNG launched the CNG industry's first liner-less tank.



Global Fabrications showcased their new small-scale LNG processing and fueling stations, under the brand name Global Energy Solutions.



IMW launched its Bulk Gas Transportation system, enabling customers worldwide to take advantage of the tremendous cost reduction and environmental benefits of converting to natural gas without waiting for expensive pipeline or LNG infrastructure.



Penske announced its grant award totaling \$525,000 from the Mobile Source Air Pollution Reduction Review Committee (MSRC). In addition, Penske released its plans to add 85 new CNG trucks to its fleet.

Product Debuts and Announcements

Peterbilt introduced their new all-purpose vocational Model 567. The vehicle is equipped with the Cummins-Westport ISX12 G and runs on CNG.



Quantum Fuel Systems showcased its industry-leading Q-Lite compressed natural gas family of tank products, including its innovative lightweight large diameter storage vessels for heavy-duty truck applications.

US Hybrid showcased their Hybrid Electric Street Sweeper product. The company received orders for hybrid electric power trains for New York City Street Sweepers after a successful two-year demonstration.



Sierra Monitor debuted its IT Series fire and gas control system which represents the most comprehensive gas detectors available.



Powertrain Integration showcased a newly designed 8.8-liter product offered as a fully-integrated drop-in solution for school buses, waste-hauling trucks and medium-duty delivery trucks.

Workhorse unveiled its E-GEN Drive system designed for the company's new chassis program as well as repowering existing trucks.



Xebec debuted a new X-Series specifically designed for natural gas filtration and will complement the current filtration offerings from Xebec.



Phoenix Motorcars debuted its modular, electric vehicle (EV) platform and its all-new 14-passenger, all-electric shuttle bus focused on the US and international markets.

Westport debuted this model year's Westport WING, the only CARB- and EPA-certified Ford F-150, featuring the Westport WING™ Power System.



Volvo showcased a compressed natural gas (CNG)-powered Volvo VNL daycab and a prototype dimethyl ether (DME)-powered VNL daycab.

World CNG unveiled its CARB-certified 2014 Chrysler Ram Promaster van.

"I think the conference was a huge success with a lot of very positive energy. The sessions and expo were fantastic."

— King County DOT

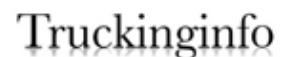
Media Coverage

Hundreds of media articles flooded news stands and inboxes leading up to, during, and after ACT Expo 2014. With 17 official media partners, including platinum sponsor Fleet Owner, and dozens of media outlets in attendance, ACT Expo received more media coverage than ever before.

300+
news articles in media outlets

61%
increase in media coverage from 2013

ACT Expo secured media partnerships and received coverage from dozens of news outlets, including:

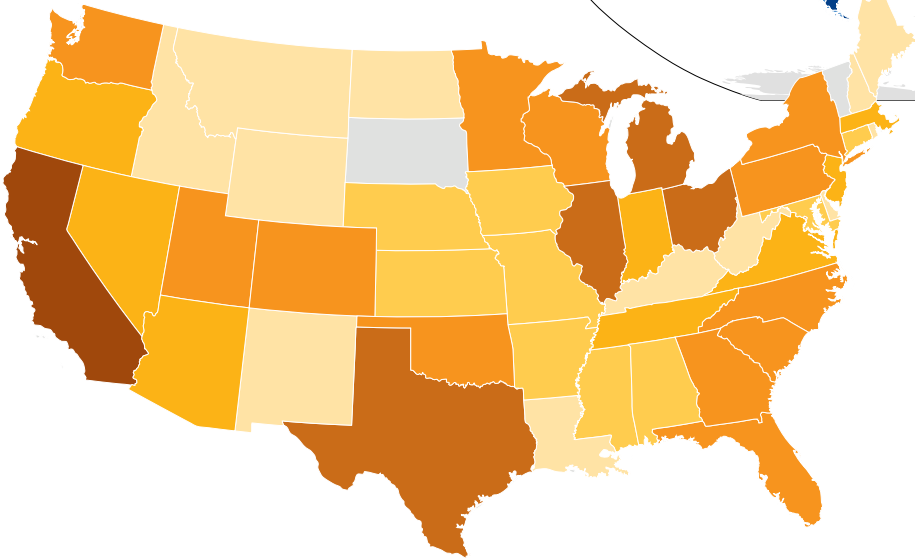
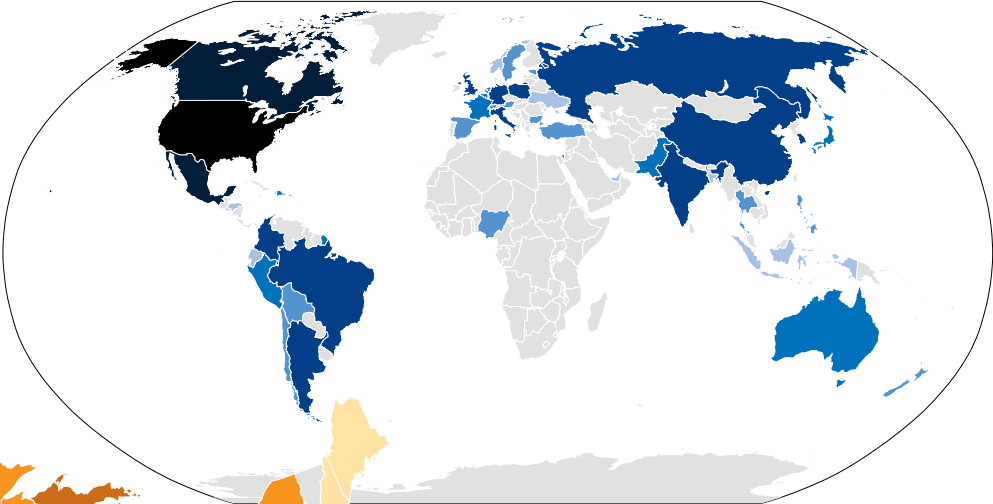


Attendee Profile

Geographic Representation of Attendees

86% United States Attendees

Highest levels of representation: California, Texas, Michigan, Ohio, Illinois, Utah, Pennsylvania, District of Columbia, South Carolina, Washington, Florida, North Carolina, Minnesota, Wisconsin, Oklahoma, Colorado, Georgia, New York



14% International Attendees

Highest levels of representation: Canada, Mexico, Italy, China, South Korea, Colombia, Germany, Argentina, Poland, Brazil, India, Russian Federation, United Kingdom, Dominican Republic, France, Peru, Trinidad and Tobago, Australia, Japan, Netherlands, Belgium, Israel, Pakistan

Sampling of Titles of Registered Attendees

ACT Expo brought together a broad mix of fleet decision makers, including:

- | | | |
|---|--|--|
| Assistant Director, Fleet Operations | Fleet Acquisition Manager | Senior Regulatory Counsel |
| Chief Executive Officer | Fleet Maintenance Director | Senior Vice President |
| Chief Fleet Officer, Deputy Commissioner | Fleet Manager | Senior VP of Engineering Services |
| Chief Operating Officer | Fleet Supervisor | Senior VP of Maintenance |
| Clean Cities Task Leader | Fleet Services Bureau, Manager of Acquisitions | Sustainable Fleet Specialist |
| Climate Policy Analyst | Lead Fleet Maintenance Technician | Transport Policy Program Director |
| Compliance Program Manager | Maintenance Director | Transportation Manager |
| Director, Alternative Fuels Program | Manager, Logistics | Vehicle Fleet/Equipment Control |
| Director of Advanced Automotive Transportation Center | Manager, Vehicle Acquisitions | Vehicle Supply Management |
| Director of Equipment Purchasing | Managing Director - Environmental Services | Vice President Fleet Operations |
| Director of Government Affairs | North American Fleet Asset Manager | Vice President North American Distribution Services |
| Director of Fleet Services | North American Logistics & Fuel Purchasing | Vice President of Maintenance |
| Director of Fleet, Facility, and Maintenance | North American Transportation Manager | Vice President Operations |
| Director of Transportation & Energy Planning | Operations Manager | Vice President, Public Policy and Regulatory Affairs |
| Director of Vehicle Supply Management | President | Vice President Strategic Planning |
| Executive Director, Citywide Sustainability | Regional Fleet Services Manager | Vice President Transportation |
| Facilities Manager | Senior Automotive Equipment Analyst | |
| | Senior Engineer, Transportation Energy | |

Fleets, Fleets, and More Fleets!

Nearly 800 leading public and private fleet operators attended ACT Expo 2014, including:

ACE Beverage
Admiral Linen
Albertsons
American Beverage Association
AmeriPride Services
Anheuser-Busch
Apache Corporation
Apria Healthcare
Aramark Uniform Services
Athens Services
AT&T
Auto Club Enterprises
Bimbo Bakeries
Bison Transport
BNSF
Boeing
Burbank Water and Power
C.R. England
California Cartage Company
California Highway Patrol
Cardenas Markets
Central Unified School District
Certified Transportation Services
CEVA Logistics
City of Anaheim
City of Chicago
City of Columbus
City of Denver
City of Long Beach
City of Los Angeles
City of Sacramento
City of San Diego
City of San Francisco
City of Seattle
Coca-Cola
Comcast Cable
Con-way
Core-Mark
County of Los Angeles
County of Orange
County of Riverside
County of San Diego
CR&R
Dean Foods
Delco Foods
Dillon Transport
Donlen Corporation
Dr Pepper Snapple Group
FedEx
Finlay Cattle Co.
Frito-Lay
Gaz Metro
Genox Transportation
Gold Coast Transit
Gold Standard Transportation
Golden Eagle Distributors
HayDay Farms
Hewlett-Packard
Honolulu Freight Service
Iowa Department of Transportation
Irvine Ranch Water District
J&M Tank Lines
J.B. Hunt Transport
J.J. Taylor Distribution Florida
Jack B Kelley, Inc.
Jet Propulsion Laboratory
Johnson Controls
King County Department of Transportation
Labatt Breweries of Canada
Lompoc Unified School District
Los Angeles County Metropolitan Transportation Authority
Los Angeles Department of Water & Power
Los Angeles Unified School District
Lowe's
Mansfield Oil Company
Matheson Postal Services
Modern Transportation
Moulton Niguel Water District
Mutual Materials
MV Transit
Nabors
NASA
National Park Service
Nature's Best
Nestlé Waters North America
New York City Department of Sanitation
Nike
Omnitrans
Orange County Sanitation District
Pacific Gas & Electric Company
Panera Bread
Penske Truck Leasing
PepsiCo
PHH Arval
Pierce Transit
Portland Public Schools
Publix Super Markets
Puget Sound Energy
Rainier Guest Services
Rawhide Leasing
Red Bull North America
Republic Services
Road Transport, Inc.
RoadRunner Shuttle
Rogers Group
Ryder
Sacramento Municipal Utility District
Saddle Creek Transportation
Safeway
San Bernardino County
San Diego Gas & Electric Company
San Diego International Airport
Seaboard Foods
Seaside Transportation Services
Sempra Energy
Sheehy Enterprises
Shuttle Bus Leasing
Southern California Edison
Southern California Gas Company
Southwestern Energy Company
SSD Systems
Stantec
Starline Tours of Hollywood
Student Transportation of America
Sunline Transit Agency
SuperShuttle
Swift Transportation Company
Sysco Food Services
Tampico Spice Company
Temecula Valley Unified School District
TFC Recycling
The Aerospace Corporation
The ICEE Company
The Kroger Company
The Martin-Brower Company
The Parking Spot
Time Warner Cable
Torrance Unified School District
Toyota Transport
Transervice Lease Corp.
U-Haul
U.S. Air Force
U.S. Marine Corps
USDA Forest Service
United States Postal Service
University of California, Davis
UPS
Vend Catering Supply
Ventura County Fire Department
Veritable Vegetable
Verizon Communications
Vons Grocery Co.
Wal-Mart Stores
Walt Disney Company
Warner Bros.
Waste Management
Watkins Manufacturing
Waxie Sanitary Supply
WCD Logistics
Werner Enterprises
Yellowstone National Park

“ACT Expo brings together stakeholders that are key to the growth of alternative fuels, provides several opportunities for the sharing of knowledge and has meaningful breakout sessions.”

— Owens Corning

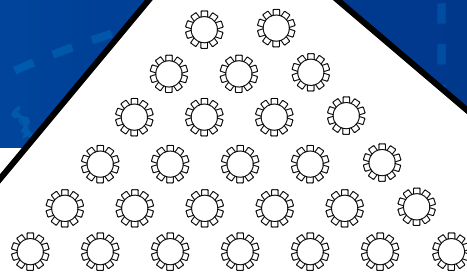
“A wealth of knowledge all under one roof. All the questions I had were answered and many great contacts were made. Great event!”

— Vons Grocery Co.

“It was a great learning and networking opportunity.”

— Matheson Trucking, Inc.

Expo Hall



Lounge/Reception

To Ride and Drive



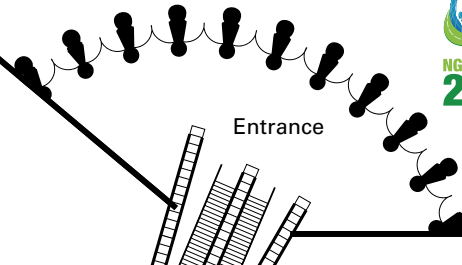
"Best expo hall in the industry!"

- BLU / Transfuels LLC



ACT 2014
EXPO
ALTERNATIVE CLEAN TRANSPORTATION

Entrance



Expo Hall Exhibitors

#

1728 - 3B-the fibreglass company
1429 - 3M

A

346 - A-1 Alternative Fuel Systems
1425 - ACD Cryogenics
1519 - AC SA
633 - Advanced Charging Technologies
1501 - Adventure
1627 - AEB SpA
569 - AFV Natural Gas Fuel Systems
1145 - Agility Fuel Systems
1225 - Agira
1430 - Alex Sp. z o.o.
923 - Alliance Autogas
552 - Allied Equipment
1705 - Allied Group
649 - American CNG
815 - American Honda
367 - American Power Group
657 - ANGI Energy Systems
1718 - Aqua-Hot Heating Systems
1225 - Argentina NGV Pavilion
1225 - Argentine CNG Association
950 - Ariel Corporation
1625 - ASCO
1422 - Aspro
350 - Atlas Copco
1323 - Auto-Gaz Centrum
831 - AVL

B

828 - BASF
1134 - Bauer Compressors
1331 - Beijing Tianhai Industry Co., Ltd
859 - Bennett Pump
531 - Bitrode Corporation
645 - Blu LNG
1520 - BonGas
1022 - Bosch

C

732 - California Fuel Cell Partnership
436 - California Natural Gas
Vehicle Partnership
1423 - Cavagna Group
1522 - CCI Thermal Technologies
629 - Cenntro Motors
1529 - Certools
1451 - Chart Industries
1419 - Chengdu Oulang Autogas Equipment
1301 - China National Aero-Technology

1826 - CIRCOR
1235 - Clean Air Power
1537 - Clean Energy
932 - CleanFUEL USA
1724 - CleanNG LLC
1619 - CNG Cylinders International
1825 - Comdata
1700 - Commercial Carrier Journal (CCJ)
1325 - Compac Industries
1531 - Covess
1061 - CP Industries
1818 - Cryofab, Inc.
1329 - Cryostar
951 - Cubogas
1150 - Cummins Westport

D

1824 - DH Industries
1557 - dHybrid Systems
1727 - Dunmore Corporation

E

762 - EControls
1823 - Ekogas
529 - Elio Motors
1503 - Emerson Process
Management / Micro Motion
1435 - Endress+Hauser
1812 - ENK
668 - Espar
1062 - Evergreen CNG Systems

F

745 - Federal Mogul
860 - FIBA Technologies, Inc.
731 - Ford Motor Company
1405 - Freightliner Custom Chassis
1405 - Freightliner Trucks

G

857 - GAIN
1337 - Galileo
1524 - Gasitaly S.r.l.
1209 - GE
1128 - General Motors Fleet
670 - Gladstein, Neandross & Associates
661 - Global Fabrication
1801 - GNV Magazine
1057 - Go Natural CNG
651 - GP Strategies

H

1426 - Hangzhou Newpioneer Technology
767 - Hexagon Lincoln
751 - Hino Trucks
1821 - HosePower USA
1051 - Hy-Lok USA

I

823 - Icom
1820 - Idro Meccanica
1715 - ILJIN Composites
945 - IMPCO Automotive
865 - IMW
1225 - INFLEX
1713 - INOCOM
1160 - INOXCVA
845 - Isuzu Commercial Trucks of America, Inc.

J

348 - JC Carter
1726 - Jefferson Solenoid Valves
862 - J-W Power Company

K

1157 - Kenworth Truck Company
1225 - Kioshi
1729 - Kiwa
1428 - Kraus Global
1309 - KwangShin Compressors

L

1719 - L&M Compressor
1345 - Landi Renzo USA
1651 - Leggett & Platt, Inc.
829 - Lightning Hybrids
669 - Love's Travel Stops
1624 - LPGTECH
557 - Luxfer Gas Cylinders

M

1357 - Mack Trucks
1162 - Macro Technologies
1525 - MATRIX SpA
1535 - MAT SA
1601 - McNeilus Truck & Manufacturing
1805 - Millenium Reign Energy
1628 - Metal Mate
1829 - Mobile Fueling Solutions

Expo Hall Exhibitors

N

345 - National Biodiesel Board
960 - New Eagle
1811 - NexDrive
856 - NGVAmerica
1813 - NGV Journal
1401 - NGV Global
1402 - NGV Global 2016
565 - NGVi
351 - NGV Solutions

O

648 - Oasis Engineering
851 - Odyne Systems
551 - Oklahoma Department of Commerce
1526 - OMB Saleri
961 - OmniTek Engineering, Corp.
760 - Optimum Composites
451 - Optimus Technologies
761 - OPW
1701 - Ozinga

P

1151 - Parker Hannifin Corporation
933 - Penske
357 - Peterbilt Motors Company
435 - Phoenix Motorcars
1120 - Power Solutions International (PSI)
928 - Powertrain Integration
1725 - Pressure Technology G.m.b.H.
911 - Propane Education & Research Council (PERC)
550 - PSB Industries
1800 - PST Cylinders

Q

1833 - Quantum Technologies
1445 - Questar

R

1319 - RAIL SpA
345 - Renewable Energy Group
1527 - Rostov CNG Vehicles
929 - Roush CleanTech
1745 - Ryder System

S

1703 - Samuel Pressure Vessel Group
1060 - Sensor Electronics
1327 - Shanghai Exon-Gas
1551 - Shell
748 - Sierra Monitor Corporation
1807 - SNO-Motion
339 - South Coast Air Quality Management District
719 - Southern California Gas Company
956 - SPX Flow Technology
663 - SSP
861 - Stäubli Corporation
1720 - Steelhead Composites
1721 - Sterling CNG
1421 - Suzhou Long-Range Cryogenic & Insulation Materials
1437 - Swagelok

T

1518 - TA Gas Technology
1804 - Tartarini Auto (Italy)
957 - Taylor-Wharton
635 - Toyota Motor Sales
1110 - Trillium CNG
1645 - TruStar Energy
650 - Tulsa Gas Technologies

U

1809 - USA PRO Shoreline Technology, LLC
729 - US DOE Clean Cities
833, 1756 - US Hybrid

V

549 - Valley Power Systems, Inc.
630 - Verizon Networkfleet
1819 - VERSUSGAS
535 - VIA Motors
1633 - Volvo Trucks
1335 - VTI Ventil Technik GmbH

W

453 - Wayne, a GE Energy Business
1600 - WEH Technologies
1827 - Weldship
1045 - Westport
342 - Workhorse/AMP Electric Vehicles
620 - World CNG
1711 - World Power Tech
750 - Worthington Cylinders
835 - Wrightspeed Powertrains
1412 - Wuxi Banner Group

X

757 - Xebec
1313 - Xi'an UnionFilter
445 - XL Hybrids
545 - xperion

Z

1815 - Zavoli SRL
722 - Zenith Motors

“ACT Expo doesn't pick favorites; it allows the audience to decide the best technology for the application.”

— REL, Inc.



Alternative Fuel and Clean Technology Vehicles



The show floor featured vehicles across all alternative fuels and weight classes, including:

Natural Gas

- Chevrolet Silverado Bi-Fuel Pickup, CNG (General Motors)
- Chevrolet Silverado Bi-Fuel Pickup, CNG (IMPCO)
- Chevrolet Impala Bi-Fuel Sedan, CNG (General Motors)
- Dodge ProMaster Van, CNG (World CNG)
- Ford Crown Victoria Interceptor Police Pursuit, CNG (SCAQMD)
- Ford E-250 Cargo Van, CNG (Leggett & Platt)
- Ford F-250 Bi-Fuel, CNG (Landi Renzo USA)
- Ford F-550 Chassis Cab, CNG (BASF)
- Ford Transit Medium Roof Cargo Van, CNG
- Freightliner 114SD Roll-Off Truck, CNG
- Freightliner Cascadia 113 Day Cab Tractor, CNG
- Honda Civic Natural Gas, CNG
- Freightliner Cascadia 113 Sleeper Tractor, CNG
- Freightliner Cascadia with Cummins Westport ISX-G 12L and 164DGE CNG Tank Package by Quantum, CNG (Ryder System, Inc.)
- Freightliner Cascadia Tandem-Axle Day Cab Tractor, CNG (Penske Truck Leasing)
- Freightliner Cascadia Tractor, CNG (Questar)
- Freightliner Columbia Glider Configuration Dual-Fuel Class 8 Tractor (American Power Group)
- GreenKraft 106 Straight Truck, CNG (Quantum Technologies)
- Honda Civic Natural Gas, CNG
- Kenworth T440 ISLG Tractor with Allison 3000 & Agility Rail-Mounted CNG System, CNG
- Kenworth T800SH ISX2 G Roll-off Truck with Allison 4500 & Trilogy Rail-Mounted CNG System, CNG
- Kenworth T680 ISX12G Sleeper Tractor with Eaton's new Ultra Shift & Trilogy BOC CNG System, CNG
- Mack Trucks Pinnacle AB Tractor, CNG
- Mack Trucks Pinnacle AB Tractor, LNG
- Mack Trucks Pinnacle Dual-Fuel Tractor, LNG (Clean Air Power)
- Peterbilt 365 Tractor, CNG (dHybrid)
- Peterbilt 567 Tractor, CNG
- Peterbilt 579 Day Cab Tractor, CNG
- Volvo VNL 64T 200 Tractor, DME
- Volvo VNL 64T 300 Tractor, CNG

Hydrogen

- Honda FCX Clarity (FCV)
- Toyota Fuel Cell Vehicle (FCV)

Renewable Fuel

- Ford F350 Eco Trek, Algae-Based Biodiesel (National Biodiesel Board)

Hybrid

- Chevrolet Express 2500 Cargo Van, Gasoline/Electric Hybrid (XL Hybrids)
- Honda Accord Plug-In Hybrid EV
- Hybrid Electric Street Sweeper (US Hybrid)
- VIA Motors Extended-Range eRev Crew Cab Electric Truck

Propane

- Exmark Lazer Z S-Series Riding Mower, Propane Autogas (PERC)
- Ford Expedition SUV, Propane Autogas (Blue Star Gas)
- Ford E-450 Box Truck, Propane Autogas (Roush CleanTech)
- Ford E-450 Transit Shuttle Bus, Propane Autogas (Roush CleanTech)
- Freightliner Custom Chassis S2G Truck Chassis, Propane Autogas
- Freightliner MT-45 Chassis, Propane Autogas (PERC)
- Isuzu NPR-HD Dedicated Bi-Phase Liquid Propane Injection Truck, Propane Autogas
- Terminal Tractor (Dock Spotter Truck), LPG (Power Solutions International)

Electric

- Cenntro Motors US-built KOMBI Compact Utility Electric Vehicle
- Chevrolet Spark Electric Vehicle
- Daimler Smart EV Electric Drive
- Honda Fit Electric Vehicle
- Phoenix Motorcars 100% Electric Shuttle Bus
- Zenith Motors 8-13-Passenger Electric Shuttle Van

Clean Diesel

- Peterbilt 579 Sleeper Tractor with MX-13 Engine, Diesel

Other

- Ford C-MAX Solar Energi Concept Vehicle
- Elio Motors Fuel-Efficient Three-Wheeled Vehicle

RIDE & DRIVE

Attendees took a spin in advanced technology vehicles representing all alternative fuel types and weight classes.

Natural Gas

- Freightliner Cascadia 113 Day Cab Tractor, CNG
- Honda Civic Natural Gas, CNG
- Peterbilt 384 Tractor, LNG
- Volvo VNL 670 Tractor, CNG (Clean Air Power)

Hybrid

- Chevrolet Express 2500 Cargo Van, Gasoline/Electric Hybrid (XL Hybrids)
- Ford E-450 Turtle Shuttle Bus, Hydraulic Hybrid (Lightning Hybrids)
- Honda Accord Plug-In Hybrid EV

Hydrogen

- Honda FCX Clarity (FCV)
- Mercedes B-Class F-Cell Hydrogen Vehicle

Propane

- Blue Bird 24-Seat School Bus, Propane (PERC/A-Z Bus Sales)
- Ford E-Series Ecoline Van, Autogas (PERC)
- Ford F-59 Box Truck, Propane Autogas (PERC)
- Ford F-250 Pickup, Propane Autogas (PERC/Roush CleanTech)
- Micro Bird G5 18-Seat School Bus, Propane (PERC/A-Z Bus Sales)

Electric

- Electric Vehicle International (EVI) Medium-Duty Electric Vehicle Honda Fit Electric Vehicle
- Wrightspeed Powertrains Isuzu NPR Diesel Range-Extended Electric Vehicle
- VIA Motors Extended-Range eRev 12-Passenger Electric Van

Clean Diesel

- Chevrolet Cruze Turbo Diesel (Robert Bosch LLC)
- Chrysler Jeep Grand Cherokee, EcoDiesel (Robert Bosch LLC)



Off-Site Technical Tours



TOUR 1: LA Municipal Bus Tour

Monday, May 5



Metro



Whether for the transport of commuters or school children, Los Angeles' public fleets have always been at the forefront of the natural gas vehicle revolution. On this tour, more than 100 participants experienced the nation's largest time-fill CNG station (developed by Trillium CNG for the Los Angeles Unified School District), and a fueling station/maintenance yard used by the nation's largest natural gas transit fleet (developed by Clean Energy Fuels for the Los Angeles County Metropolitan Transit Agency). Participants were invited to examine this state-of-the-art equipment up close, while tour organizers provided insight into the unique opportunities and challenges that municipal fleets face when introducing natural gas into their operations.

Site One: LA Metro - Division 18

Site Two: Los Angeles Unified School District

TOUR 2: Hydrogen Fuel Cell Tour

Tuesday, May 6



As hydrogen fuel cells become the next-generation technology, OEMs are committing to offering products aimed at commercializing this sector. ACT Expo attendees visited US Hybrid's Torrance integration facility and headquarters to witness the new revolution of hydrogen fuel cells. Attendees toured facilities to witness firsthand the engineering behind US Hybrid's products, as well as to see the big picture of how their components are being used in medium- and heavy-duty vehicles. Attendees also had the opportunity to visit America's first pipeline-fed hydrogen fueling station operated by Shell out of Torrance, CA. Attendees learned about Shell's innovative technology for hydrogen refueling infrastructure and their plans to roll out a hydrogen station highway across the US. Additionally, attendees were able to get an exclusive look at Toyota's new SUV fuel cell hybrid vehicle and learned about the company's fuel cell vehicle development program.

Site One: US Hybrid

Site Two: Shell Hydrogen Station

TOUR 3: Heavy-Duty Natural Gas Tour

Tuesday, May 6



Southern California is a hotbed of activity for natural gas, due in part to the region's leadership in requiring tighter emissions standards for heavy-duty vehicles, and its commitment to providing funding opportunities to offset the costs of cleaner transportation for fleet operators. Participants on this tour experienced Clean Energy's Port of Long Beach LCNG facility, complete with an inside look at the site's LNG and LCNG infrastructure, a demonstration of the LNG fueling process, and a chance to interface with several port truckers about the operation of heavy-duty LNG trucks. The second stop took attendees to Waste Management's Carson LNG/LCNG facility, which receives LNG made from ultra-low carbon biomethane produced at WM's Altamont landfill gas facility in Livermore, CA. Participants wrapped up their visit with a firsthand look at WM's latest CNG refuse collection vehicles on display and a Q&A with WM's site personnel.

Site One: Clean Energy LCNG Station at the Port of Long Beach

Site Two: Waste Management Carson LCNG Station

NGV Global 2014

Organized by NGV Global and Gladstein, Neandross & Associates

Monday, May 5 – Thursday, May 8, 2014

NGV Global 2014 was the 14th biennial conference and exhibition for NGV Global—the world's leading association promoting the development of the global natural gas transportation market. Conference sessions were held in tandem with ACT Expo 2014 programming and focused on the latest advancements in the worldwide NGV market.

With global attendance across six continents, NGV Global 2014 made history by being a part of the largest clean transportation event in North America. The co-located conferences allowed participants to tailor their conference experience with more than 30 breakout sessions offered throughout the four-day program. Industry leaders from mature NGV markets—such as Argentina, China, Germany, India, Italy, Japan, Sweden, and the UAE—shared key lessons learned as their local markets blossomed. NGV session highlights included discussions on NGV industry leaders representing some of the world's largest investors in natural gas vehicle technologies, an international NGV market outlook from various regions around the globe, and OEM strategies for light- and heavy-duty NGVs including future concepts and deployments in North America and beyond. The NGV Global 2014 exhibition took place within the ACT Expo 2014 expo hall, showcasing a massive array of natural gas vehicle and solution providers.



CHBC Spring Summit

Organized by California Hydrogen Business Council

Monday, May 5, 2014

The CHBC Spring Summit "Building the Hydrogen Economy" provided an in-depth forum for businesses, academia and government agencies to gain an update on new markets for hydrogen and fuel cells – ranging from energy storage and power supply to personal transportation, goods movement, ports, and beyond. More than 100 attendees of the Spring Summit heard from an impressive array of industry representatives on recent developments in the following key market sectors:

- Strategic Vision of Building and Financing Hydrogen Infrastructure
- Public Education on Hydrogen Mobility
- Utilities, Renewable Energy Mandate, and Hydrogen Energy Storage
- Fuel Cell Power Solutions
- Fuel Cells as EV Range Extenders



NACFE & CWR Trucking Efficiency Workshop



Organized by North American Council for Freight Efficiency & Carbon War Room

Monday, May 5, 2014

Trucking Efficiency is a combined effort of the North American Council for Freight Efficiency and the Carbon War Room to double the freight efficiency of North American goods movement by 2016. With US government impressing upon the commercial trucking sector to adopt cleaner vehicle fuels and innovative efficiencies to comply with emissions regulations, the Trucking Efficiency Workshop at ACT Expo sought to bring the latest data on these issues and potential targets for fleets, drivers and OEMs to approach lower MPG costs from various angles. Workshop attendees heard from representatives of Ryder System, Frito-Lay, Daimler Trucks, and Cummins Westport, among others. Topics included:

- Trucking Efficiency: Mission and Background
- Buying and Selling Fuel-Efficient Technologies
- How the Industry Can Move to Greater Fuel Efficiency

Following an overview of each technology, participants gathered in small workshop groups to brainstorm the benefits and challenges to adopting various technologies. Each group focused on one of three specific technologies: tire pressure systems, 6x2 axles, and anti-idling devices. The workshop was complemented by exhibits from efficiency technology manufacturers.



Lead the Way with Propane Autogas Event

Organized by Propane Education & Research Council

Monday, May 5, 2014

The second annual Lead The Way with Propane Autogas event, presented by the Propane Education & Research Council (PERC), highlighted advancements in the propane autogas industry and real-world experiences from leaders in the fleet community. The event provided attendees with a better sense of what clean, affordable, American-made propane autogas brings to the table, and why it's a fuel of choice for leading fleets around the country.

Following the Lead the Way with Propane Autogas event, attendees gathered at nearby Gladstone's Long Beach for PERC's annual ACT Expo welcome reception to officially kick off North America's largest clean fleet expo.



SmartWay Program Workshop with Penske

Organized by the US Environmental Protection Agency & Penske Truck Leasing/Penske Logistics

Tuesday, May 6, 2014

Since the program's inception in 2004, more than 3,000 shippers have registered with the US EPA's SmartWay program, which is responsible for the reduction of 51.5 million metric tons of CO₂, 738,000 tons of NO_x, and 37,000 tons of particulate matter by displacing an estimated 120.7 million barrels of oil that would have cost roughly \$16.8 billion. This session highlighted the goals and achievements of EPA SmartWay as the program celebrated 10 years of supporting the goods movement industry, in addition to showcasing Penske's commitment to support sustainable transportation with its fleet customers. Workshop attendees heard from leading fleets like Leticia Resources, Hewlett-Packard and Penske Logistics on how the SmartWay program has helped lower their carbon footprint, gain shipping efficiencies by promoting SmartWay carriers, and promote sustainability as a core driver of their respective fleet operations. In addition to having alternative fuels play a more prominent role within SmartWay programs in the future, the EPA announced during this session that they are also moving into multimodal applications such as the development of a barge tool, as well as integrating their systems with Mexico and Canada to reach across all of North America to reduce emissions in the freight sector.



Women in ACT Summit

Organized by Gladstein, Neandross & Associates (producers of ACT Expo)

Tuesday, May 6, 2014

The inaugural Women in ACT Summit brought together more than 90 attendees and showcased female leaders from the public and private sector who are shaping the future of clean transportation. In the first panel, "Public Policy and Advocacy," panelists from alternative fuel industry associations and the US Department of Energy discussed the types of policies that can help spur innovation and move the market forward. In the second panel, "Innovation and Implementation," panelists from leading fleets and alternative fuel and technology companies explored the key challenges to growing the market, including the role of government policies and incentives.

After "talking shop" during the opening topics, the women from both panels joined together on a closing panel, "Women in Transportation – Opportunities and Challenges." The discussion highlighted why it is imperative to attract more women into leadership positions in the transportation industry, and how women impact the profitability and growth of organizations.



Alternative Fuel Toolkit for Local Governments, Fleet Managers, and Employers Workshop

Organized by: South Coast Air Quality Management District (SCAQMD)

Wednesday, May 7, 2014

The South Coast AQMD invited fleet managers, local governments, and Clean Cities Coalitions to participate in a free workshop to learn best practices for deploying alternative fuel infrastructure (electric, hydrogen, and CNG/LNG). Participants learned about issues pertaining to building codes; permitting and installation; zoning, parking, and local ordinances; and stakeholder training and education for alternative fuel infrastructure for fleet operations. Additionally, case studies and examples of successful deployments of alternative fuel infrastructure and how these were implemented were also presented. Each attendee will receive an "Alternative Fuel Toolkit," which includes best practices on permitting, installation and other aspects of deploying alternative fuel infrastructure, as well as resources for local governments and fleets on alternative fuel readiness, on a flash drive as a takeaway from this session once the best practices documents have been approved by the DOE Clean Cities program.



BSR Future of Fuels

Organized by BSR

Thursday, May 8, 2014 | 3:00 p.m. - 7:30 p.m.

In order to make transportation fuels more sustainable, new low-carbon options must include fuels, vehicles, and related infrastructure that are available, technically sound, and cost-effective for scalable commercial use. In response, BSR's Future of Fuels initiative hosted a stakeholder dialogue on "Bringing Better Transportation Fuels to Scale: Opportunities for Collaboration." This forum explored challenges standing in the way of scalable solutions for low-carbon fuel, and discussed opportunities for different parts of the value chain to work together to accelerate progress in creative new ways. The Future of Fuels forum included speakers from major fleet operators, fuel producers, vehicle manufacturers, scientists, civil society, and governments. Invited to participate were decision-makers from the private, public, and nonprofit sectors interested to explore constructive, collaborative solutions for bringing better transportation fuels to scale.



Keynote Presentations



Dennis Slagle

*Executive Vice President,
Volvo Group*



Tuesday, May 6

Dennis Slagle, head of commercial operations for the Volvo Group's truck brands (Mack, Volvo, Renault, and UD) in the Americas, shared his company's latest sustainability advancements for heavy-duty trucks as well as buses, construction equipment, and marine and industrial engines.

Mr. Slagle opened the first keynote address with a pun, "I love the energy here, but we've got to get our 'ACT' together." He laid out the realities of the transportation industry's future fuel mix, identifying some of the groundbreaking technologies that Volvo is working to bring to the market as well as some of the key issues needed to see such technologies get to scale. Mr. Slagle highlighted a number of advanced technology programs the company is working on, including the development of a 13-liter natural gas engine and a continued focus on dimethyl ether (DME) as an alternative alternative fuel. He also covered a variety of efficiency improvement technologies and intelligent transport systems, including platooning, telematics and connected vehicles. Mr. Slagle called for better harmonization among international emissions standards in order to help global OEMs such as Volvo, among others, to most efficiently deploy research and development capital. He also highlighted a number of ideas that would help incentivize, not penalize, the accelerated deployment of advanced technologies and alternative fuels in today's marketplace by gaining a greater pull from the market and thus a push from OEMs and technology providers.



Matt Petersen

*Chief Sustainability Officer,
City of Los Angeles*



Wednesday, May 7

Matt Petersen shared the City's commitment to combat climate change by driving investment in clean transportation through cutting-edge policies, fostering the growth of clean tech companies in the region, and leading by example by deploying hundreds of alternative fuel vehicles within the City of Los Angeles' own fleet operations.

Recognizing the importance of regional leadership, Mr. Petersen and Mayor Eric Garcetti have worked collaboratively with the LA region's 88 mayors on sustainability initiatives. He noted the development of the City's first Sustainable City Plan and the City's strong commitment to alternative fuels, including the deployment of 1,800 clean and alternative fuel vehicles, including more than 400 refuse collection trucks fueled by renewable LNG. Mr. Peterson noted the City's leadership in reducing emissions from the Port of Los Angeles via the increased deployment of LNG trucks, and a continued focus on other similar clean air technologies and initiatives. He concluded by adding that LA will continue to use clean technology innovation, and by so doing, will create 20,000 local green jobs.



Ronald Litzinger

President, Southern California Edison



Thursday, May 8

Ronald Litzinger, president of one of the nation's largest electric utilities, discussed Edison's role in advancing the electric drive industry, starting with the company's own successful deployment of EV technologies.

Mr. Litzinger opened the final keynote speech by saying that SCE sees the opportunity that is formed by combining what is the "transportation of the future" with the "grid of the future." His message was that there has been dramatic improvement to the cleanliness of power generation since 1981, but there is a long way to go. Improvements have come about through AB 32 leading the way to reduce CO2 emissions to 1990 levels by 2020. Technology progress, led by public policies, has made the price of alternative energy go down. Meanwhile, it is up to SCE to modernize the grid, while remaining sensitive to disruptive technologies. The grid will continue to be a facilitator of public policy as it will enable distributed generation and clean (electric) transportation. He described the US electricity grid as the most usable and reliable, where customers may "plug and play," and it must remain that way. SCE aims to keep safe and reliable service while pushing for power from cleaner sources. Commercial and residential solar power has received \$200 million in rebates from California solar initiatives, and SCE is well on its way to achieving 33% renewable electricity by 2020. He described that as SCE moves forward with "Grid 2.0," they will invest \$4 billion per year to improve the grid.

Transportation industry leaders from around the world presented throughout the four-day program on the key fueling, equipment, technology, and policy advancements driving the future of sustainable transportation. Attendees heard the latest updates on all alternative fuels and clean vehicle technologies—including natural gas, propane autogas, electric, hybrid, hydrogen, DME, clean diesel, and renewable fuels—for all vehicle applications and weight classes.

“Loved it all! Information overload.”

— City of San Fernando








ACT EXPO

NGV GLOBAL EVENT

JOINT EVENT

CO-LOCATED EVENT

MONDAY, MAY 5

7:00 a.m. - 5:00 p.m.	<p>Registration Open</p>
8:00 a.m. - 10:00 a.m.	<p>NGV Global Board Meeting <i>This event was open to NGV Global members only.</i></p>
10:30 a.m. - 12:15 p.m.	<p>NGV Global General Assembly <i>This event was open to NGV Global members only.</i></p>
8:30 a.m. - 6:00 p.m.	<p>CO-LOCATED EVENT CHBC Spring Summit</p> <p><i>Organized by the California Hydrogen Business Council</i></p>   <p>The CHBC Spring Summit “Building the Hydrogen Economy” provided a balanced forum for businesses, academia, and government agencies to explore hydrogen and fuel cells through intelligent conversation, surprising presentations and thought-provoking sessions. Attendees heard from an impressive array of senior government officials and industry executives who provided their vision of the role of hydrogen and fuel cells in California and the US and laying out their plans for continued technology commercialization.</p>
11:30 a.m. - 5:00 p.m.	<p>CO-LOCATED EVENT Trucking Efficiency Workshop</p> <p><i>Organized by NACFE & Carbon War Room</i></p>   <p>The Trucking Efficiency Workshop was a combined effort of the Carbon War Room and North American Council for Freight Efficiency to double the freight efficiency of North American goods movement by 2016 through the elimination of market barriers to information, demand, and supply. After hearing an overview of each technology, participants broke into small workshops to brainstorm the benefits and challenges to adopting various technologies. Each workshop group focused on one of three specific technologies: tire pressure systems, 6x2 axles, and anti-idling devices. The workshop was complemented by exhibits of available technology manufacturers.</p>
12:30 p.m. - 1:30 p.m.	<p>NGV Global Board of Directors Lunch Meeting <i>This event was open to NGV Global members only.</i></p>
1:00 p.m. - 3:30 p.m.	<p>OFF-SITE TOUR LA Municipal Bus Tour</p> <p><i>Hosted by LA Metro, LAUSD, and Trillium CNG</i></p>    <p>Site One: LA Metro - Division 18 Site Two: Los Angeles Unified School District</p> <p>Due to the high concentration of forward thinking fleets and agencies in the South Coast Air Basin, Los Angeles’s public transportation has always been at the forefront of the clean technology revolution. Whether for the transport of commuters or school children, Los Angeles buses are some of the cleanest in the world. This tour explored a compressed natural gas fueling station and maintenance facility for one of the largest transit agencies in the country, as well as a time-fill station used by the city’s school district.</p>

1:00 p.m. - 5:00 p.m.

CO-LOCATED EVENT

Lead the Way with Propane Autogas Summit

Organized by PERC



The PERC Lead the Way with Propane Autogas Summit provided attendees with the chance to hear from fleet managers who are seeing the benefits of propane autogas every day. At the end of the day, attendees walked away with a better sense of what clean, affordable propane autogas brings to the table, and why it's already gaining momentum with fleets around the country.

2:00 p.m. - 5:00 p.m.

NGV Global Technical Forum

The Technical Forum explored technical issues in a more detailed and informal forum than normal conference sessions allow. The focus was on critical issues requiring resolution, which will help to define technical objectives and priorities for NGV Global to pursue. ***This event was open to NGV Global members only.***

CHAIRMAN: **Diego Goldin**

MODERATOR CNG: **Alex Lawson**

MODERATOR LNG: **Brenda Smith**

5:00 p.m. - 7:30 p.m.

Kick-Off Reception at Gladstone's

Sponsored by PERC








ACT Expo welcomed attendees with hors d'oeuvres, drinks, a mariachi band, and fun to celebrate Cinco de Mayo at **Gladstone's Restaurant** at the end of Pine Avenue overlooking San Pedro Bay. This casual gathering helped attendees meet other conference attendees and to unwind and relax after traveling to Southern California.



"The breadth and industry knowledge that is brought together in one place is unparalleled compared to any other conference I've attended."

— FortisBC Energy, Inc.



TUESDAY, MAY 6

7:00 a.m. - 5:00 p.m.	<p>Registration Open</p>
8:00 a.m. - 11:30 a.m.	<p>OFF-SITE TOUR Hydrogen Fuel Cell Tour</p> <p><i>Hosted by US Hybrid and Shell</i></p>  <p>Site One: US Hybrid Site Two: Shell Hydrogen Station</p> <p>Hydrogen fuel cell and hydrogen refueling station technology development is advancing dramatically, as OEMs commit to offering their latest vehicles to commercialize this sector in the near-term. This tour highlighted Southern California's leadership in the deployment of hydrogen fuel cell vehicles and hydrogen refueling infrastructure, and showcased the companies pushing fuel cell and hydrogen technology to the forefront of alternative fuel conversation and deployment. Attendees joined us for a trip to America's first pipeline-supplied hydrogen fueling station, as well as a leading manufacturer of components for fuel cell, electric and hybrid medium- and heavy-duty vehicles.</p>
8:00 a.m. - 11:00 a.m.	<p>OFF-SITE TOUR Heavy-Duty Natural Gas Tour</p> <p><i>Hosted by Clean Energy Fuels and Waste Management</i></p>  <p>Site One: Clean Energy LCNG Station at the Port of Long Beach Site Two: Waste Management Carson LCNG Station</p> <p>Southern California is a hot bed of activity for natural gas, due in part to the region's leadership in requiring tighter emission standards for heavy-duty vehicles, and its commitment to providing funding opportunities to offset the costs of cleaner transportation for fleet operators. This tour showcased some of the first adopters of LNG and CNG truck technologies. Attendees visited a large public-access natural gas fueling station that facilitated cleaner air in the ports of Long Beach and Los Angeles, as well as a private waste-hauling facility committed to deploying natural gas trucks in its operations.</p>
8:00 a.m. - 11:30 a.m.	<p>CO-LOCATED EVENT Women in ACT Summit</p> <p><i>Organized by Gladstein, Neandross & Associates</i></p>  <p>WOMEN IN ACT</p> <p>The Women in Alternative Clean Transportation (ACT) Summit showcased female leaders who are shaping the future of clean transportation. Attendees heard from women who lead the charge on public policy advancements and groundbreaking technology and infrastructure deployment projects. Panelists shared the steps they took to shape their careers, how they have succeeded in the traditionally male-dominated transportation sector, work-life balance tips, and other challenges and opportunities. The summit was free to anyone attending ACT Expo.</p>
9:00 a.m. - 11:00 a.m.	<p>CO-LOCATED EVENT SmartWay Program Workshop with Penske</p> <p><i>Organized by Penske</i></p>   <p>The SmartWay Program Workshop highlighted the goals and achievements of EPA SmartWay as the program celebrated 10 years of supporting the goods movement industry. Remarks by EPA staff giving an overview of the purpose and components of the SmartWay Program were followed by a discussion between Penske Truck Leasing/ Penske Logistics—recipient of the SmartWay Affiliate Challenge and SmartWay Excellence Award—and its fleet customers. This panel highlighted Penske's commitment to promoting sustainable transportation, and how the company has encouraged its customers to take up the charge. Attendees heard from these leading fleets on how the SmartWay Program has increased the efficiency of their vehicles and reduced fleet wide emissions.</p>

<p>11:30 a.m. - 1:00 p.m.</p>	<p>Luncheon</p> <p><i>Sponsored by ANGA</i></p> 	
<p>12:00 a.m. - 12:10 p.m.</p>	<p>Conference Welcome</p>	<p>SPEAKER Mayor Bob Foster, City of Long Beach</p>
<p>12:10 p.m. - 1:00 p.m.</p>	<p>Opening Keynote Address</p>  <p>Dennis Slagle</p>	<p>INTRODUCTION OF KEYNOTE SPEAKER Amy Farrell, Vice President of Market Development, America's Natural Gas Alliance</p> <p>KEYNOTE SPEAKER Dennis Slagle, Executive Vice President Group Trucks Sales & Marketing Americas, Volvo Group</p>
<p>1:00 p.m. - 2:15 p.m.</p>	<p>JOINT PLENARY SESSION Global Growth Throughout the Clean Transportation Sector</p>	<p>Kicking off this year's ACT Expo and NGV Global sessions, leading alternative fuel industry executives addressed why they are so excited at the current status and momentum building in their sector and what progress we can expect to see in the year ahead. In a new presentation format for ACT, we asked these speakers to present individual "ACT Talks."</p> <p>MODERATOR: Erik Neandross, Chief Executive Officer, Gladstein, Neandross & Associates</p> <ul style="list-style-type: none"> • Andrew Littlefair, Co-Founder, President & Chief Executive Officer, Clean Energy Fuels • Roy Willis, President & Chief Executive Officer, Propane Education & Research Council • Joe Jobe, Chief Executive Officer, National Biodiesel Board • Bob Lutz, President & Chief Executive Officer, Lutz Communications; Chairman of the Board, VIA Motors
<p>2:15 p.m. - 2:45 p.m.</p>	<p>Networking Break</p>	



"This show is growing exponentially, because those seeking knowledge regarding alternative fueled vehicles can get an accurate assessment of the industry."

— TruStar Energy

2:45 p.m. - Breakout Session #1

2:45 p.m. - 4:00 p.m.

ACT EXPO BREAKOUT SESSION 1.1 Next Generation Hydrogen Fuel Cell Vehicles



2014 will be a banner year for the commercial rollout of hydrogen fuel cell vehicles, with California being one of the major global hubs of activity for this deployment. Several major OEMs have announced that they will have product in the showrooms in the coming year and will be ramping up sales into the thousands of units. Never before has there been such tremendous momentum and growth in this market. This session gave an overview of the development process and plans for market introduction of light-duty hydrogen vehicles, including a discussion on reasons for considering fuel cell vehicles and OEM partnerships to expedite the process.

MODERATOR: **Chris White**, Communications Director, California Fuel Cell Partnership

- **Stephen Ellis**, Fuel Cell Vehicle Marketing Manager, American Honda Motor Company
- **Geri Yoza**, National Business Planning Manager, Toyota Motor Sales
- **Matthew Forrest**, Project Engineer, Fuel Cell Vehicles Operations, Mercedes-Benz Research & Development North America
- **Gil Castillo**, Senior Group Manager of Alternative Vehicle & Advanced Vehicle Strategy, Hyundai

2:45 p.m. - 4:00 p.m.

ACT EXPO BREAKOUT SESSION 1.2 Propane Autogas Fueling Infrastructure



Propane fueling infrastructure is already well established throughout many regions of the United States, in particular due to the demand of propane for non-vehicular uses. While the fuel has long been a popular fuel choice for private fleets of light- and medium-duty vehicles, there exists much opportunity to expand this reach with publicly accessible infrastructure. The panelists for this session highlighted not only their role in the creation of private access propane stations, but also their development of networks and corridors to meet and increase demand for public access fueling.

MODERATOR: **Tucker Perkins**, Chief Business Development Officer, Propane Education & Research Council

- **Nathan Ediger**, Director of Autogas, Ferrellgas Propane
- **Bob Barnett**, Facility Revenue Manager, Pilot Flying J
- **Blair Poulsen**, Sales Director, CleanFUEL USA
- **Robert Little**, Director, Autogas Sales & marketing, JP Energy Partners

2:45 p.m. - 4:00 p.m.

ACT EXPO BREAKOUT SESSION 1.3 Light-Duty Electric Fleet Case Studies



With the reestablishment of light-duty electric OEM product availability, many public and private fleets across the country are investing in these vehicles. With this renaissance, these cars and vans are finding homes in fleets where their operational characteristics can meet the daily driving demands of the organization. Fleet representatives joined us to talk about their experience with these vehicles, including overcoming range anxiety, development of electric charging infrastructure networks, EV maintenance considerations, and other issues.

MODERATOR: **Julia Pyper**, Reporter, ClimateWire

- **Joe Stergios**, Manager of New Vehicles and Manufacturer Relations, Enterprise Holdings
- **Rick Sikes**, Fleet Superintendent, City of Santa Monica
- **Greg Haddow**, Clean Transportation Manager, San Diego Gas & Electric Company
- **Alan Riddle**, Director of Transportation Services, Southern California Edison

2:45 p.m. - 4:00 p.m.

NGV GLOBAL BREAKOUT SESSION 1.4 Light-Duty & Medium-Duty Natural Gas Retrofits



This panel of light-duty and medium-duty vehicle modifiers presented on the technologies and partnerships needed to integrate natural gas power systems into OEM vehicle offerings. Overviews of current product lineups showed how these offerings can fit in your fleet operations today.

MODERATOR: **Alan McEwan**, Director of Business Development, New Eagle Consulting

- **Mark Aubry**, Vice President of Sales and Marketing, Westport
- **Barry Carr**, Director of Business Development, Landi-Renzo USA
- **Keith Fields**, Business Development Manager, IMPCO Automotive
- **Will Gutilla**, Sales Manager, Business Development, A-1 Alternative Fuel System

2:45 p.m. - 4:00 p.m.

NGV GLOBAL BREAKOUT SESSION 1.5 Heavy-Duty Natural Gas Trucks: A Reality Check



Heavy-duty OEMs joined us for a moderated discussion showcasing the latest developments in natural gas trucks and issues for the road ahead. The reality of this market's growth was a major focus of the session, including a discussion on the accuracy of predictions up to this point as well as growth forecasting for the coming year. Additionally, this conversation addressed current LNG and CNG market dynamics, the performance of the 12L Cummins Westport engine, the development of additional new engine platforms, and more!

MODERATOR: **Erik Neandross**, Chief Executive Officer, Gladstein, Neandross & Associates

- **Robert Carrick**, Natural Gas Sales Manager, Freightliner Trucks
- **Frank Bio**, Director of Sales Development, Specialty Vehicles & Alternate Fuels, Volvo Trucks
- **Andy Douglas**, National Sales Manager, Kenworth Truck Company
- **Roy Horton**, Powertrain Product Marketing Manager, Mack Trucks
- **Charles Cook**, Marketing Manager - Vocational Products, Peterbilt Motors



"If you want to know more about a specific portion of the industry, chances are high that there is a breakout session to cover just that."

— Clean Air Power

4:15 p.m. - Breakout Session #2

4:15 p.m. - 5:30 p.m.

ACT EXPO BREAKOUT SESSION 2.1 Medium-Duty & Heavy-Duty Hybrid Drive Systems



This session showcased how fleets are improving bus and truck fuel economy by focusing on the most state-of-the-art hybrid electric and hydraulic hybrid power systems. Presenters covered their latest product lineups and offerings, as well as their plans for the future, including the US EPA's upcoming OBD requirements.

MODERATOR: **Susan McSherry**, Alternative Fuels Program Manager, New York City Department of Transportation

- **Ian Wright**, Founder & Chief Executive Officer, Wrightspeed Powertrains
- **Matt Jarmuz**, Director of Sales, Odyne Systems
- **Tim Reeser**, President & Co-Founder, Lightning Hybrids
- **Edward Lovelace**, Chief Technology Officer, XL Hybrids

4:15 p.m. - 5:30 p.m.

ACT EXPO BREAKOUT SESSION 2.2 Hydrogen Fuel Cell Demonstration Fleet Case Studies



Though manufacturers have announced that significant plans for hydrogen fuel cell vehicle development are well underway, this technology remains elusive and only a few fleets across the country are currently running such vehicles. This technology has seen increasing reliability over the years, despite high costs for both upfront vehicle purchase and infrastructure development. The pioneer fleets represented on this session talked about their experience testing these vehicles, and how their feedback is helping OEMs refine their usability for the larger fleet and consumer markets.

MODERATOR: **Lisa Mirisola**, Program Supervisor, Technology Advancement, South Coast Air Quality Management District

- **Jennifer Kurtz**, Hydrogen Analysis Group Manager, National Renewable Energy Laboratory
- **Tommy Edwards**, Advanced Technology Project Manager, SunLine Transit Agency
- **Kersey Manlicic**, Researcher, Advanced Power and Energy Program (APEP), University of California, Irvine
- **Kip Selby**, Senior Project Manager, The Kroger Company

4:15 p.m. - 5:30 p.m.

ACT EXPO BREAKOUT SESSION 2.3 E85 & Biodiesel Fleet Case Studies



Fleets across the country are incorporating biofuels into their existing operations as the simplest way to integrate alternative fuels. Management and fueling of ethanol and biodiesel capable vehicles is the most similar to that of gasoline and diesel powered operations, and often offers the ability to run on traditional fuels when biofuels are unavailable or cost-prohibitive. For these reasons, these vehicles offer a near risk-free entry strategy for fleets getting into the AFV market. However, there are still subtle differences in operation that must be noted for a fleet to be successful. Experienced fleet managers discussed why E85 and biodiesel made sense in their operations, and how they address the variations in operation compared to their traditionally fueled vehicles.

MODERATOR: **Anne Tazewell**, Transportation Program Manager, North Carolina Solar Center

- **Michael Lengyel**, Senior Management Analyst, City of Chula Vista
- **Han Dinh**, Director of Vehicle Engineering & Technology Innovations, United States Postal Service
- **Andrew Hudgins**, Project Leader, National Renewable Energy Laboratory
- **Jim Ruby**, Assistant Director Fleet Services, University of California, San Diego

4:15 p.m. - 5:30 p.m.

NGV GLOBAL BREAKOUT SESSION 2.4 NGVs - Keeping Pace with Fuel Efficiency Improvements



As the efficiency of modern heavy-duty diesel engines continues to increase, the significant fuel cost savings benefit provided by a switch to natural gas can be decreased. This session highlighted the latest developments and efforts to improve the efficiency of natural gas engines via continued engine development, advanced combustion strategies, the application of the same efficiency improvement technologies being leveraged on the diesel side, and via other means.

MODERATOR: **Scott Perry**, Vice President of Supply Management and Fleet Management Solutions, Ryder System

- **Gord Exel**, President, Cummins Westport
- **Mike Roeth**, Executive Director, North American Council on Freight Efficiency
- **Paul Schwark**, Engineering Manager, Robert Bosch
- **Jim Arthurs**, Executive Vice President, Heavy Duty Engine Systems, Westport

4:15 p.m. - 5:30 p.m.

NGV GLOBAL BREAKOUT SESSION 2.5 Heavy-Duty Natural Gas Retrofits



Natural gas system suppliers provided details on their aftermarket solutions to provide new engine products to the market and immediate cost and emissions savings to heavy-duty truck operators. Case studies were presented on leading fleets incorporating these systems into their operations. Updates on market penetration, market projections, and key issues for end-users were also covered by the panelists.

MODERATOR: **Robin Erickson**, Executive Director, Utah Clean Cities

- **Kevin Campbell**, Business Development Director, Clean Air Power
- **Lyle Jensen**, Chief Executive Officer & President, American Power Group
- **Werner Funk**, Chief Executive Officer, Omnitek Engineering
- **Barry Carr**, Director of Business Development, Landi Renzo USA

5:30 p.m. - 8:00 p.m.

Expo Hall Grand Opening & Welcome Reception

Attendees explored the largest ACT Expo floor to date, packed with AFV technology, equipment and fuel providers, and more! This reception provided an opportunity to “kick the tires” on the latest products and equipment, while enjoying food and drinks, visiting with old friends and colleagues, and establishing new relationships.



“This was one of the most informative industry conferences that I have had the pleasure to attend. The sessions were full of topics that needed to be covered and discussed with industry peers. Great show.”

— Oklahoma Natural Gas Co.

WEDNESDAY, MAY 7

7:00 a.m. - 5:00 p.m.

Registration Open

7:30 a.m. - 9:00 a.m.

Breakfast in the Expo Hall

Sponsored by ET Environmental



8:00 a.m. - 10:30 a.m.

CO-LOCATED EVENT
Alternative Fuel Toolkit for Local Governments, Fleet Managers, and Employers Workshop

Organized by the South Coast Air Quality Management District



The South Coast AQMD invited participation in the free **Alternative Fuel Toolkit for Local Governments, Fleet Managers, and Employers Workshop**, geared towards fleets and Clean Cities Coalitions, where attendees learned best practices of using alternative fuels—including electric, hydrogen, and CNG/LNG. Each attendee received an “Alternative Fuel Toolkit” on a flash drive as a takeaway.

8:00 a.m. - 10:45 a.m.

NGV GLOBAL PLENARY SESSION
OEM Strategies for Heavy-Duty & Light-Duty NGVs



NGV GLOBAL PLENARY SESSION
International Market Update



International automakers joined us for a high-level conversation about their natural gas product offerings for a variety of weight classes and plans for future deployment in North America and around the globe.

MODERATOR: **Mike Gallagher**, Senior Advisor, Westport

- **Dick Kauling**, Engineering Group Manager, Gaseous Fuel Systems, General Motors
- **T.J. Reed**, Director of Product Strategy, Daimler Trucks North America/Freightliner Trucks
- **Reinhard Otten**, Environmental Product Manager, Audi AG
- **Frank Bio**, Director of Sales Development, Specialty Vehicles & Alternate Fuels, Volvo Trucks
- **Prashant Banerjee**, Head, Product Evaluation & Homologation, Engineering Research Centre, Tata Motors

Executive members of the various global NGV associations provided an overview of current NGV activity in their region during this plenary session.

MODERATOR: **Alicia Milner**, President, Canadian Natural Gas Vehicle Alliance; Chair, NGV Global (North America)

- **Lennart Pilskog**, Secretary General, NGVA Europe; Board Member, NGV Global (Europe)
- **Diego Goldin**, Executive Director, NGV Global (South America)
- **Fazal Ali Khan**, CNG Development Manager, Emirates Gas; Vice President, Asia Pacific Natural Gas Vehicles Association (Asia)
- **Brenda Smith**, Managing Director, Safety & Gas Advisers (Asia)

8:30 a.m. - 10:45 a.m.

ACT Expo Welcome Remarks

SPEAKER

Tahmid Mizan, Senior Technology Advisor, Corporate Strategic Planning Department, ExxonMobil Corporation

Keynote Address

KEYNOTE SPEAKER

Matt Petersen, Chief Sustainability Officer, City of Los Angeles



Matt Petersen

ACT EXPO PLENARY SESSION International Fleet Investments Shaping the Future of Clean Transportation & Green Fleet of the Year Award

Award presented by WIX Filters



In the commercial automotive sector, there is a simple truth when it comes to the development of new products and technologies – orders drive priorities. Attendees heard from this panel of fleet executives as they provided compelling “ACT talks” of how their large-scale procurements of advanced technologies and alternative fuels has driven the market for these products from OEM and after-market suppliers.

MODERATOR: **Erik Neandross**, Chief Executive Officer, Gladstein, Neandross & Associates

- **Mike O’Connell**, Senior Director for Fleet Operations, Frito-Lay North America
- **Joe Stergios**, Manager of New Vehicles and Manufacturer Relations, Enterprise Holdings
- **Michael Britt**, Director of Maintenance & Engineering International Operations, Ground Fleet, UPS
- **Kenneth Jack**, Vice President, Fleet Operations, Verizon Communications

The Green Fleet of the Year Award was presented during the session.

AWARD PRESENTER

Jim Mele, Editor-in-Chief, *Fleet Owner*

10:45 a.m. - 11:15 a.m.

Networking Break



11:15 a.m. - Breakout Session #3

11:15 a.m. - 12:30 p.m.

ACT EXPO BREAKOUT SESSION 3.1 Service & Support for OEM- Developed Walk-In Vans and Medium-Duty Commercial Trucks



Medium-duty OEMs across a variety of powertrains presented on the latest truck and walk-in van options available for vocational fleets. Following their introduction, representatives focused the conversation to cover service and support customers can expect to receive when purchasing an alternative fuel vehicle. This included warranty coverage, roadside assistance, and other services offered that will put a fleet at ease when considering the purchase of clean vehicles.

MODERATOR: **Lee Grannis**, Coordinator, Greater New Haven Clean Cities Coalition

- **Kevin Holland**, Manager, Natural Gas Sales, Freightliner Trucks
- **Mark Burdge**, Vice President of Sales Business Development, VIA Motors
- **Glenn Ellis**, Vice President of Marketing and Dealer Operations, Hino Motors
- **Brian Tabel**, Director of Marketing, Isuzu Commercial Truck of America

11:15 a.m. - 12:30 p.m.

ACT EXPO BREAKOUT SESSION 3.2 AFV Taxi Policies & Fleet Case Studies



Taxi and shuttle service fleets offer an important opportunity to reduce emissions and fuel use in a high-mileage, high-visibility industry. Many of these fleets are converting to alternative fuels for environmental or public image reasons; however, an increasing number of airports and municipalities are now requiring that taxi emissions be reduced or are offering incentives for fleets that voluntarily choose a cleaner option. Chaired by the California Clean Cab partnership, fleet managers from key taxi fleets nationwide joined us to discuss their efforts to green their vehicles and lessons learned along the way.

MODERATOR: **Paul Gillespie**, Co-Founder, California Clean Cab Partnership

- **Brent Bell**, President & Chief Executive Officer, Whittlesea Bell Transportation
- **Tom Drischler**, Taxicab Administrator and Manager, Franchise & Taxicab Regulation, City of Los Angeles Department of Transportation
- **Tim Conlon**, President and General Manager, California Yellow Cab

11:15 a.m. - 12:30 p.m.

ACT EXPO BREAKOUT SESSION 3.3 Light-Duty Diesel: A Growing Alternative



Though diesel has long been a popular option for light-duty cars internationally, where more than 50 percent of the vehicles sold in a country are diesel powered, the US has only seen a surge of these vehicles in recent years. With increased fuel efficiency requirements now in place at the federal level, the 20-30 percent fuel efficiency gains offered by these vehicles, compared to gasoline engines, will drive significant market penetration in the United States in the coming years. Attendees heard from the OEMs leading the charge to increase their investments in light-duty diesel vehicles and understand what this means to the future of the light-duty vehicle sector in both the fleet and consumer markets.

MODERATOR: **Alex Freitag**, Director of Diesel Systems Engineering, Robert Bosch

- **Mike McGarry**, Fleet Product Planning Manager and Green Fleet Support, General Motors
- **William Craven**, General Manager of Regulatory Affairs, Daimler AG/Mercedes-Benz

11:15 a.m. - 12:30 p.m.

NGV GLOBAL BREAKOUT SESSION 3.4 Shippers Driving Investment in Natural Gas



A major challenge in the transportation sector's transition to natural gas is that many of the nation's heavy-duty trucks are owned by carriers (or contractors) who operate transportation routes on behalf of shippers. Compelled by the economic and environmental benefits of natural gas trucks, shippers are increasingly working with their for-hire contractors to drive investment in natural gas trucks. Where such partnerships have been developed, economic and environmental improvements are realized. As these early success stories become more visible, additional shippers are becoming increasingly interested in natural gas for their operations, thus driving additional adoption of natural gas in the supply chain.

MODERATOR: **Erik Neandross**, Chief Executive Officer, Gladstein, Neandross & Associates

- **David Uncapher**, Transportation Sourcing and Operations Leader, Owens Corning
- **Adam Bishop**, Senior Logistics Analyst, Domestic Transportation - Parts, Service & Technical Division, American Honda Motor Company
- **John Sheehy**, President, Sheehy Mail Contractors
- **Joe Goodwin**, Director of Transportation, Seaboard Foods

11:15 a.m. - 12:30 p.m.

NGV GLOBAL BREAKOUT SESSION 3.5 Renewable Natural Gas for Low Carbon Operations



Renewable natural gas offers the chance to transform waste streams into a super low-emission transportation fuel asset. This session highlighted leading biomethane projects around the world, emphasizing partnerships forged between fuel producers, fleet operators and other project stakeholders. Participants discussed economic, policy, and environmental motivations for considering renewable natural gas, offered key lessons learned, and provided a look into the future of this exciting and developing market.

MODERATOR: **Mats Ekelund**, Partner, Senior Adviser of Projects & Finance, Strateco Development AB

- **Doug Middleton**, Chief Operating Officer, Pierce Transit
- **Andrea Stephenson**, General Manager, Atlas ReFuel
- **Lorenzo Maggioni**, Head of Research & Development, Italian BioGas Consortium
- **Paul Relis**, Senior Vice President, CR&R Environmental Services

11:15 a.m. - 12:30 p.m.

NGV GLOBAL BREAKOUT SESSION 3.6 Natural Gas Safety & Standards



This session provided details on the key natural gas safety standards and codes that are critical to the continued accelerated proliferation of the global NGV market. Presentations covered key codes and standards that must be considered for product suppliers looking to penetrate the growing North American market; service life and end of useful life considerations for on-board CNG cylinders as learned from the Argentinian NGV market with more than 2.3 million NGVs on the road; international efforts to harmonize standards and regulations for NGV equipment, fuels, and fueling infrastructure; and critical safety considerations for fleets wishing to repair and maintain NGVs in indoor facilities.

MODERATOR: **Diego Goldin**, Executive Director, NGV Global

- **John Dimmick**, Director of Technology, Clean Vehicle Education Foundation
- **Juan Carlos Fracchia**, Vice President, Argentoil SA
- **Flavio Merigo**, Technical Director, NGV Italy
- **Travis Homer**, Director of Safety & Loss Prevention, Ryder System

12:30 p.m. - 3:30 p.m.

Luncheon in the Expo Hall

12:30 p.m. - 3:30 p.m.

Ride & Drive



3:45 p.m. - Breakout Session #4

3:45 p.m. - 5:00 p.m.

ACT EXPO BREAKOUT SESSION 4.1
Medium-Duty & Heavy-Duty
Hybrid Fleet Case Studies



Hybrid technology is an increasingly popular choice for the start and stop operations of delivery and service vehicles in off-highway routes, due to the technology's ability to significantly reduce fuel use associated with vehicle idling. Products on the market today are considered the "best they have ever been." This session featured major fleets that have made large investments in hybrid technology as the best method for reducing emissions in their daily operations.

MODERATOR: **Mark Simon**, Director of Alternative Fuels Program, New York City Department of Transportation

- **Nina Kisch**, Fleet Administration Manager, Transportation Services, Pacific Gas & Electric Company
- **Tom Howard**, Transportation Systems Manager, Veritable Vegetable
- **Dan Moody**, Senior Governmental Compliance Specialist, ComEd

3:45 p.m. - 5:00 p.m.

ACT EXPO BREAKOUT SESSION 4.2
Electric Charging Networks &
Infrastructure



From simple charging stations to sophisticated and interconnected networks of smart chargers, this session explored the latest trends and developments for powering EVs. Workplace charging, fee collection issues, and other important trends for EV networks and infrastructure were covered in a comprehensive manner by these panelists.

MODERATOR: **Francisco Dóñez**, Sector Lead, West Coast Collaborative, United States Environmental Protection Agency

- **Charlie Botsford**, Business Development, Efficient Energy Systems, Aerovironment
- **Khalid Simjee**, Freedom Station Project Manager, NRG eVgo
- **Jim Stanley**, Vice President and General Manager, Blink Network, CarCharging
- **David Peterson**, EV Regional Manager, Marketing & Sales Strategy, Nissan North America

3:45 p.m. - 5:00 p.m.

ACT EXPO BREAKOUT SESSION 4.3
Fuel Supply & Infrastructure for
Liquid Biofuels



Drop-in biofuels have displaced more petroleum fuels than all other alternative fuels combined. This expert panel touched on the latest developments in this important field, including innovative new feedstocks and second-generation biofuels, as well as updates on some of the hottest policy discussions on the biodiesel tax credit, the federal farm bill, the Renewable Fuels Standard program, and the Low Carbon Fuel Standard within California.

MODERATOR: **Christopher Standlee**, Executive Vice President, Global Affairs, Abengoa Bioenergy US Holding

- **Jon Scharingson**, Executive Director of Sales & Marketing, Renewable Energy Group
- **Rob Elam**, Founder & Chief Executive Officer, Propel Fuels
- **Chris Bliley**, Director of Regulatory Affairs, Growth Energy
- **Mike Lewis**, General Manager, Pearson Fuels

3:45 p.m. - 5:00 p.m.

NGV GLOBAL BREAKOUT SESSION 4.4 NGV Policy Initiatives



As has been seen time and time again, well-formed public policy initiatives from the local level to the federal level can be critically important in the early stages of NGV market development. Representatives from local, state, and international regulatory authorities discussed energy and environmental focused initiatives aimed at advancing the use of natural gas technologies in the Californian, South American, and Asian markets.

MODERATOR: **Rich Kassel**, Senior Vice President, Gladstein, Neandross & Associates

- **Henry Hogo**, Assistant Deputy Executive Officer, South Coast Air Quality Management District
- **Jack Kitowski**, Assistant Chief, Stationary Source Division, California Air Resources Board
- **Hirase Yusuke**, General Manager of Natural Gas Vehicle Department, The Japan Gas Association
- **Eduardo Pizano**, President, Naturgas (Colombian Natural Gas Association)

3:45 p.m. - 5:00 p.m.

NGV GLOBAL BREAKOUT SESSION 4.5 Heavy-Duty On-Road Vehicles - LNG and CNG for the Long Haul



Natural gas engines are proven technologies, offering fleets a lower cost and cleaner alternative to traditional diesel operations. Whether an LNG or CNG on-board fuel storage system is selected, however, continues to be a common question among fleet operators considering a switch to natural gas. There is no single right answer; each fuel storage type has its own benefits and tradeoffs that must be considered. Vehicle size and operational restrictions, tank weight, fuel cost, incremental tank package and truck costs, ease of fueling, fueling times and labor costs, cost of refueling infrastructure, and other factors are often taken into account when choosing between LNG and CNG. Leading fleets that have completed these evaluations and selected a path forward shared the key factors that influenced their ultimate decision.

MODERATOR: **Chad Lindholm**, Vice President of Western United States and Canada, Clean Energy Fuels

- **Jeff Shefchik**, President, Paper Transport
- **Ashley White**, Logistics Sustainability Manager, The Kroger Company
- **Mike DelBovo**, President, Saddle Creek Transportation
- **Mark Davis**, President, Jack B. Kelley (a Kenan Advantage Group company)

3:45 p.m. - 5:00 p.m.

NGV GLOBAL BREAKOUT SESSION 4.6 Natural Gas Infrastructure & Fuel Supply Issues



This session addressed methods for developing natural gas production and fueling infrastructure solutions. Off-pipeline solutions, renewable fuel sources, accelerated development of infrastructure corridors and fueling networks, and other innovative solutions are all part of the NGV industry's global efforts to grow the market. These various approaches can individually and collectively provide immediate benefits to end-users working to transition to this low cost clean fuel source. Attendees heard from the companies who are making it easier for fleets to say yes to natural gas.

MODERATOR: **Michael Bates**, Publisher, Next Generation Transportation News

- **William Zobel**, Senior Vice President of Business Development & Strategy, Trillium CNG
- **Enid Joffe**, Senior Vice President, Galileo Group
- **Harrison Clay**, President, Clean Energy Renewable Fuels
- **Reinhard Otten**, Environmental Product Manager, Audi AG

5:00 p.m. - 7:00 p.m.

Networking Reception in the Expo Hall

THURSDAY, MAY 8

7:00 a.m. - 5:00 p.m.

Registration Open

7:30 a.m. - 9:00 a.m.

Breakfast in the Expo Hall

Sponsored by ET Environmental



9:00 a.m. - 11:00 a.m.

NGV Global Opening Remarks

SPEAKER

Rich Kolodziej, President, NGVAmerica

NGV GLOBAL PLENARY SESSION
Lessons Learned from the International NGV Market & Application to North America - Secondary Market & Infrastructure Development

International markets with millions of NGVs already on the road provide compelling case studies on how infrastructure and OEM strategies can be successfully developed in tandem, raising questions about residual value and secondary markets for NGVs. With a growing on-road NGV market, North American NGV market participants were able to tap into the knowledge and experience gained in other markets around the world. The co-location of the NGV Global 2014 presented an ideal opportunity to explore these tough issues as the domestic North American market continues grow.

MODERATOR: **Rich Kolodziej**, President, NGVAmerica

- **Mariarosa Baroni**, President & Chief Executive Officer, NGV Italy
- **Mats Ekelund**, Partner, Senior Adviser of Projects & Finance, Strateco Development AB
- **Jorge Mathuiy**, Commercial Director, MAT SA; Member, Brazilian Petroleum & Gas Institute NGV Committee
- **Jeffrey Seisler**, Chief Executive Officer, Clean Fuels Consulting

9:00 a.m. - 9:45 a.m.

ACT Expo Opening Remarks & Keynote Address

INTRODUCTION OF KEYNOTE SPEAKER

Joseph Lyou, Board Member, South Coast Air Quality Management District; President & Chief Executive Officer, Coalition for Clean Air



Ron Litzinger

KEYNOTE SPEAKER

Ron Litzinger, President, Southern California Edison

9:45 a.m. - 11:00 a.m.

ACT EXPO PLENARY SESSION
Getting to Zero



Key industry representatives joined us for a roundtable discussion about the steps necessary to reach large-scale commercialization of zero emission vehicle technologies in the near-term. With California's aggressive zero emission vehicle goals as the backdrop, this session discussed realistic strategies to deploy battery electric, plug-in, and fuel cell electric vehicles in significant numbers, including perspectives on market demand, vehicle supply, end use, and refueling infrastructure.

MODERATOR: **David Meisel**, Senior Director of Transportation & Aviation Services, Pacific Gas and Electric Company

- **Alex Keros**, Manager, Advanced Vehicles & Infrastructure Policy, General Motors
- **George Survant**, Senior Fleet Director, Time Warner Cable
- **Alan Lloyd**, President Emeritus, International Council on Clean Transportation
- **Alan Perriton**, President, VIA Motors
- **Mark Abramowitz**, President, California Hydrogen Business Council

11:00 a.m. - 11:15 a.m.

Networking Break

11:15 a.m. - Breakout Session #5

11:15 a.m. - 12:30 p.m.

ACT EXPO BREAKOUT SESSION 5.1 Medium-Duty Electric Drive Vehicle Technologies



While the emissions from today's commercial medium- and heavy-duty trucks are already extremely low, the promise of zero emission commercial transportation is exciting and relevant on several fronts. This panel showcased the latest on electric truck technologies available for a variety of commercial applications.

MODERATOR: **John Mikulin**, Regional Lead, Electric Vehicle Deployment, West Coast Collaborative, United States Environmental Protection Agency

- **David West**, Chief Marketing Officer, VIA Motors
- **Abas Goodarzi**, Founder & President, US Hybrid
- **Christine Smith**, Vice President of Sales and Marketing, Zenith Motors
- **Erik Hansen**, Vice President of Sales & Hydrogen, Plug Power

11:15 a.m. - 12:30 p.m.

ACT EXPO BREAKOUT SESSION 5.2 Service & Support from Light- Duty OEMs



Light-duty OEMs shared the latest information on their alternative fuel product offerings in addition to discussing plans for future advanced technologies. Following their introduction, representatives focused the conversation to cover service and support customers can expect to receive when purchasing an alternative fuel vehicle. This included warranty coverage, roadside assistance, features like station locators in vehicles, and other services offered that will put a fleet at ease when considering the purchase of clean vehicles.

MODERATOR: **Pamela Burns**, Communications Supervisor, North Central Texas Council of Governments; Coordinator, Dallas Fort-Worth Clean Cities

- **Jon Coleman**, Fleet Sustainability & Technology Manager, Ford Motor Company
- **Mark Karney**, Director of Alternative Energy Vehicles, General Motors
- **Stephen Ellis**, Fuel Cell Vehicle Marketing Manager, American Honda Motor Company
- **Marc Deutsch**, EV Business Development Manager, Western Region, Nissan North America

11:15 a.m. - 12:30 p.m.



ACT EXPO BREAKOUT SESSION 5.3 Light-Duty & Medium-Duty Propane Fleet Case Studies



Attendees heard from leading fleets investing in propane autogas technologies for their fleets on why this fuel made the most sense for their operations. This included OEM upfit availability, reduced fuel costs, and ease of refueling infrastructure installation. With several promising new propane autogas engine technology programs now underway, increased market penetration of this fuel and these technologies is almost assured in the near term. This conversation centered around what is happening and how your fleet can prepare itself to benefit from these trends.

MODERATOR: **Todd Mouw**, Vice President of Sales & Marketing, ROUSH CleanTech

- **Scott Lavery**, West Region Vice President of Automotive Engineering, Fleet Maintenance & Operations, UPS
- **Teri Brady**, Director of Student Transportation, Portland Public Schools
- **Mike Yohe**, General Manager, Shuttle Operations, ACE Parking

<p>11:15 a.m. - 12:30 p.m.</p>	<p>ACT EXPO BREAKOUT SESSION 5.4 Alternative Fuels for Utility Fleets & Service Vehicle Case Studies</p>	<p>Utility and service fleets across the country lead the way in deploying alternative fuel vehicles of all kinds. The operational profile of these vehicles is often very conducive to the successful implementation and operation of alternative fuels in these fleets. Attendees heard from leading natural gas and electric utility companies on their current programs, how they have been and continue to be a test bed for new technologies, their success stories to date and their plans for the future.</p> <p>MODERATOR: Kurt Moreland, Associate Publisher, Utility Fleet Professional</p> <ul style="list-style-type: none"> • Tony Orta, Strategy & Compliance Manager, Fleet Services, Southern California Gas Company • Scott Briasco, Manager of Fleet Engineering & Electric Transportation, Los Angeles Department of Water & Power • Frank Chapel, Director Natural Gas Transportation Fuels, Apache Corporation • Jordan Smith, Manager of Electric Drive Systems, Southern California Edison
<p>11:15 a.m. - 12:30 p.m.</p>	<p>NGV GLOBAL BREAKOUT SESSION 5.5 Natural Gas for Food & Beverage Distribution</p> 	<p>Over-the-road fleets looking to save costs while also increasing fleet performance are turning to natural gas to improve their environment and their bottom line. Attendees heard from leading companies in the food and beverage industries about how natural gas has made good “cents” for their distribution fleets. This session focused on what steps went into natural gas fleet planning, how they were able to overcome the challenges of natural gas refueling, a discussion of project successes and results to date, and highlighted plans for the future.</p> <p>MODERATOR: Jeff Crissey, Editor, Commercial Carrier Journal</p> <ul style="list-style-type: none"> • Bob Kidder, Director of Fleet, Facility and Maintenance, Sysco Food Services • Bill Osteen, Senior Vice President of Business Operations, Golden Eagle Distributors • Billy Lawder, Director of Transportation Engineering, Anheuser-Busch • Mike Ahart, Vice President, Transportation, Dean Foods
<p>11:15 a.m. - 12:30 p.m.</p>	<p>NGV GLOBAL BREAKOUT SESSION 5.6 Environmental Considerations of NGVs</p> 	<p>While the environmental benefits of NGVs are well regarded, there has been much recent focus and attention on both the hydraulic fracturing techniques that have led to the North American shale gas revolution and fugitive methane emission issues within the supply chain. The NGV industry and other stakeholders are working on these important issues. This panel provided details and updates on these critical issues, from the well-head through the supply chain, including a look at the next generation of vehicle, engine, and drivetrain technologies that will further improve the environmental performance of tomorrow’s NGVs.</p> <p>MODERATOR: Patrick Couch, Project Director, Gladstein, Neandross & Associates</p> <ul style="list-style-type: none"> • Erica Bowman, Vice President of Research and Policy Analysis and Chief Economist, America’s Natural Gas Alliance • Mark MacLeod, Director of Special Projects, Climate & Air, Environmental Defense Fund • Scott Hartman, LNG Technology Lead, North America, Shell • George Minter, Senior Director, Policy and Environment, Southern California Gas Company
<p>12:30 p.m. - 2:30 p.m.</p>	<p>Luncheon in the Expo Hall</p>	
<p>3:00 p.m.</p>	<p>Expo Hall Closes</p>	

2:30 p.m. - Breakout Session #6

2:30 p.m. - 3:45 p.m.

ACT EXPO BREAKOUT SESSION 6.1 Medium-Duty Electric Vehicle End-User Case Studies



Set routes, return-to-base operations, and stop-and-go urban driving make for ideal characteristics for the implementation of an electric vehicle technology program. This panel showcased some of the leading examples where electric technologies have proven successful in reducing costs and emissions while meeting the tough operational demands of a pick-up and delivery fleet operation.

MODERATOR: **Jon Leonard**, Senior Vice President, Gladstein, Neandross & Associates

- **Michael Britt**, Director of Maintenance & Engineering International Operations, Ground Fleet, UPS
- **Bob Douglas**, Vice President Field Maintenance, Northeast Region, Penske
- **John Clements**, Retired Director of Transportation, Kings Canyon Unified School District

2:30 p.m. - 3:45 p.m.

ACT EXPO BREAKOUT SESSION 6.2 Hydrogen Fueling Infrastructure & “Designing a Drop-in Hydrogen Fueling Station”—2014 Hydrogen Student Design Contest Award Ceremony Award sponsored by US DOE and NREL



*Award presented by Hydrogen
Education Foundation*



One of the biggest challenges to the expansion of the hydrogen fuel cell vehicle market is increasing appropriate refueling capabilities to support fleets. In this case, fueling infrastructure must come prior to or in tandem with vehicle deployment in order to encourage customers to invest in these expensive technologies. This session highlighted the latest efforts to create a comprehensive plan for new hydrogen station development, drawing on the existing roadmap for the California market and examining the potential to expand this to other states.

MODERATOR: **Margo Melendez**, Transportation Deployment Manager, National Renewable Energy Laboratory

- **Joe Gagliano**, Infrastructure Business Development Specialist, California Fuel Cell Partnership
- **Shane Stephens-Romero**, President & Co-Founder, FirstElement Fuels
- **Marianne Mintz**, Deployment and Analysis Team Lead, Argonne National Laboratory
- **Michel Archambault**, Director of Business Development & Sales, Hydrogenics Corporation

The Hydrogen Education Foundation’s Hydrogen Student Design Contest Award Ceremony was announced during this session.

AWARD PRESENTER

Michel Archambault, Director of Business Development & Sales, Hydrogenics Corporation

2:30 p.m. - 3:45 p.m.

ACT EXPO BREAKOUT SESSION 6.3 Propane Vehicle Conversions



This panel of light- and medium-duty vehicle modifiers presented on the technologies and partnerships needed to integrate propane autogas systems into OEM vehicle offerings. Overviews of current product lineups showed how these offerings can fit in your fleet operations today.

MODERATOR: **Michael Sabourin**, Senior Program Engineer, On-Highway Vehicle Alternative Fuel Conversions, Office of Transportation and Air Quality, United States Environmental Protection Agency

- **Todd Mouw**, Vice President of Sales & Marketing, ROUSH CleanTech
- **Ralph Perpetuini**, Chief Executive Officer, Icom North America
- **Stuart Weidie**, President, Alliance Autogas
- **Brad Shantry**, Operations Manager, Powertrain Integration

2:30 p.m. - 3:45 p.m.

NGV GLOBAL BREAKOUT SESSION 6.4 NGV Utility Programs



Natural gas utilities from around the globe joined us to discuss their organization's role advancing local NGV markets and the industry overall. Though their methods differ, each offers a model for increased NGV market penetration. Presenters shared their experiences, models, success stories, and plans for the future as they continue to support the growth of their local NGV markets.

MODERATOR: **Sean Turner**, Chief Operating Officer, Gladstein, Neandross & Associates

- **Ron Goodman**, Director of Technology Solutions, Southern California Gas Company
- **Doug Stout**, Vice President of Energy Solutions & External Relations, FortisBC; Chair, CNGVA Board
- **Curt Ganeles**, Demonstration Coordinator, LNG Blue Corridors Project, erdgas mobil GmbH
- **Ian Skelton**, Director, Natural Gas Vehicles, AGL Resources

2:30 p.m. - 3:45 p.m.

NGV GLOBAL BREAKOUT SESSION 6.5 NGV Industry Leaders



The fleets highlighted on this panel represent some of the biggest investors in natural gas vehicle technology in North America, and perhaps the world. Each has committed to replacing a majority, if not all of their existing diesel fleet with natural gas vehicles. As a result, they have directly and indirectly contributed to the expansion of regional natural gas infrastructure networks and the market overall via the growth of fueling infrastructure, supply chains and parts availability, and general knowledge, know-how and advocacy. It is through the efforts of forward-thinking companies like these that other fleets seeing these examples are informed about the benefits of this cleaner burning, domestic fuel. Each representative shared their story, giving others the opportunity to learn from their efforts and successes to date.

MODERATOR: **Ryan Erickson**, Senior Project Director, Gladstein, Neandross & Associates

- **Eric Woods**, Vice President of Fleet Supply Chain, Waste Management
- **Phil Crofts**, Marketing Director, Dillon Transport
- **Bill Cashmareck**, General Manager, Natural Gas, Love's Travel Stops
- **John Drayton**, Manager, Vehicle Technology, Los Angeles County Metropolitan Transportation Authority

2:30 p.m. - 3:45 p.m.


NGV GLOBAL BREAKOUT SESSION 6.6 Marine & Off-Road NGVs



Key stakeholders in the LNG production and distribution industries discussed how investments in large marine and off-road NGV end-users is helping to facilitate the expansion of the on-road NGV markets in these regions. This discussion of the interrelationship between the on-road and off-road sectors highlighted how successful fuel production, supply chain, and fueling infrastructure projects will cater to a variety of consumers in multiple sectors.

MODERATOR: **Cliff Gladstein**, President, Gladstein, Neandross & Associates

- **Cheryl Wilson**, Analyst, Bloomberg New Energy Finance
- **Michael McGarry**, Manager of System Sales, Chart Energy & Chemicals
- **Greg Roche**, General Manager, Eagle LNG Partners
- **Enid Joffe**, Senior Vice President, Galileo Group

<p>3:00 p.m. - 7:30 p.m.</p>	<p>CO-LOCATED EVENT BSR Future of Fuels</p> <p><i>Organized by BSR</i></p> 	<p>In order to make transportation fuels more sustainable, new low-carbon options must include fuels, vehicles, and related infrastructure that are available, technically sound, and cost-effective for scalable commercial use. In response, BSR's Future of Fuels initiative will host a stakeholder dialogue on "Bringing Better Transportation Fuels to Scale: Opportunities for Collaboration." This forum explored challenges standing in the way of scalable solutions for low-carbon fuel, and discussed opportunities for different parts of the value chain to work together to accelerate progress in creative new ways. The Future of Fuels forum included speakers from major fleet operators, fuel producers, vehicle manufacturers, scientists, civil society, and governments.</p>
<p>4:00 p.m. - 4:45 p.m.</p>	<p>NGV Global Closing Ceremonies</p>	<p>This session announced where the next NGV Global conference will take place in two years, and discussed how the global NGV market plans to position itself in the near term.</p> <p>MODERATOR: Jeffrey Seisler, Chief Executive Officer, Clean Fuels Consulting</p> <ul style="list-style-type: none"> • Lennart Pilskog, Secretary General, NGVA Europe; Board Member, NGV Global • Alicia Milner, President, Canadian Natural Gas Vehicle Alliance; Chair, NGV Global • Diego Goldin, Executive Director, NGV Global
<p>4:45 p.m.</p>	<p>ACT Expo & NGV Global 2014 Programming Adjourns</p>	
<p>6:30 p.m. - 10:00 p.m.</p>	<p>NGV Global Gala Dinner & NGV Champion Awards Aboard the Queen Mary</p>	<p>ACT Expo 2014 attendees are invited to purchase tickets for the NGV Global 2014 Gala Dinner and Awards Reception aboard the legendary Queen Mary ocean liner. The NGV Global Gala Dinner presents the perfect opportunity to meet global sustainable transportation stakeholders from around the world and celebrate the success of global NGV projects during the awards ceremony, all while enjoying one of Southern California's most well-known tourist attractions.</p>

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