Webinar Housekeeping

• Submit a question via the Questions box on your GoTo control panel.

• After the presentations, as time permits, our EPA presenters will answer questions submitted.

• Please complete the survey at the end of today’s webinar. Your feedback is important to us!
Webinar Housekeeping

The presentation slides and recording will be available at:

http://www.epa.gov/smartway/smartway-webinars-events
(select the “Past Webinars/Events” tab)
EPA SmartWay Webinar: Running on Less

Mike Roeth & Dave Schaller

January 10, 2018
AGENDA

• Who is NACFE
• Fuel Situation
• Run On Less
• Confidence Reports
• Future
NACFE: North American Council for Freight Efficiency

Dedicated to doubling the efficiency of North American goods movement

1. By improving the quality of information flow and
2. By highlighting successful adoption of technologies

2017 FISCAL SPONSORS

Gold

Silver

Bronze
MOTIVATIONS

Cost of Fuel
Future Fuel Prices
GHG Regulations
Corporate Sustainability
There is a noticeable lack of dependable facts as to the performance of commercial cars. The proper method of operating them most economically and, at the same time obtain the greatest efficiency, is the problem the user of motor delivery and truck service is endeavoring to solve.
Run On Less Video Link

https://www.youtube.com/watch?v=k3xsmzeBSLs&t=1s
RunonLess SUPPORTERS

TITLE SPONSORS

PEPSICO

SHELL LUBRICANTS
TOGETHER ANYTHING IS POSSIBLE

EVENT SPONSORS

GEOTAB
management by measurement

SmartWay®
U.S. Environmental Protection Agency
DIVERSE TECHNOLOGIES
(Most tractors were SmartWay Designated)

• **Chassis**: 6x4, 4x2, 6x2 tag & 6x2 lift axle
• **Engines**: 15L, 13L & 11L
• **Idle Reduction**: Diesel APU, Battery HVAC, Auto On/Off
• **Tires**: Wide Based Singles, Duals, LRR, Traction 6x2
• **Trailers**: Different skirts, tails, a reefer & a high cube
• **Drivers**: Single, Team, & Trainer with student
RUN ON LESS RESULTS

10.1 MPG

7 Trucks, 17 Days, 50,107 Miles
99 Driving Days

Best MPG 12.8, 3 over 12.5
Low 7.1, Avg. of all lows 8.8

31 days over 65,000 lbs.

One day – 3,279 ft. elev. change, 72,960 lbs. & 2.7 mph headwind = 9.7 MPG!
RUN ON LESS: 10 ACTIONS FOR 10 MPG

- Use Downsped Powertrains and AMTs
- Educate and Incent Conscientious Drivers
- Adopt Appropriate Trailer Aerodynamics
- Optimize Cruise Control and Vehicle Speed
- Keep Equipment Well Maintained
- Buy all Available Tractor Aerodynamics
- Implement the Right Axle Configuration
- Embrace Low Rolling Resistance Tires
- Provide Tools Reduce Idle Time
- Build a Culture of Methodically Choosing Technologies
RUN ON LESS RESULTS

• In 17 days, these seven trucks saved:
  • 2,877 gallons of fuel
  • $7,193

• If all 1.7 m trucks, we’d save annually:
  • 9.7 billion gallons of diesel
  • $24.3 billion
  • 98 million tons of CO₂
CONFIDENCE REPORTS: Trust

Complete, unbiased review of available technologies for fleet confidence to adopt.

- Tire Pressure Systems
- 6x2 Axles
- Idle Reduction
- Transmissions
- Engine Parameters
- LRR Tires
- Lightweighting
- Downspeeding
- Maintenance for FE
- Trailer Aerodynamics
- Tractor Aerodynamics
- Lubricants
- Platooning
- Engine Accessories
- Solar
TECHNOLOGIES: (6x2 AXLES)

Published July 11th.

http://truckingefficiency.org/operational-practices/6x2_axles
TECHNOLOGIES: PLATOONING

• Valid/proven fuel-saving
• Bulk of required technology being purchased
• Intervals not as close as widely believed
• Minimal stress on drivers
• Begin as inner-fleet option
• Become extra-fleet option quickly
• Will expedite autonomous driving tech

http://www.truckingefficiency.org/operational-practices/two-truck-platooning
TECHNOLOGIES: SOLAR

• On three RunonLess Tractor-Trailers and DOE SuperTrucks.

• Tractors for hotel loads and charging assist.

• Trailers for reefers, lift gates, telematics, etc.

• Suppliers active and scaling.

NACFE Confidence Report Study Team launched November 1st.
Mileage Over Time

Efficiency in MPG

- NACFE AFFS Average MPG
- NACFE AFFS 2017 MY Trucks
- US DOE SuperTrucks
- Run on Less Trucks
NACFE GOING FORWARD
### Meet Up with NACFE on the road

<table>
<thead>
<tr>
<th>WHAT</th>
<th>WHERE</th>
<th>WHEN</th>
</tr>
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<tbody>
<tr>
<td>NRC Pathways to Green Freight Workshop</td>
<td>Ottawa, ON</td>
<td>February 18th</td>
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<tr>
<td><strong>ACT Research Seminar</strong></td>
<td>Columbus, IN</td>
<td>February 27th</td>
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<tr>
<td>TMC</td>
<td>Atlanta, GA</td>
<td>March 4th</td>
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<tr>
<td>NTEA Work Truck Show &amp; Workshop</td>
<td>Indianapolis, IN</td>
<td>March 8th</td>
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<tr>
<td>Mid-America</td>
<td>Louisville, KY</td>
<td>March 22nd</td>
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<tr>
<td>Shell: Make the Future</td>
<td>Sonoma, CA</td>
<td>April 19th</td>
</tr>
<tr>
<td>Truck World</td>
<td>Toronto, ON</td>
<td>April 19th</td>
</tr>
<tr>
<td>ACT Expo</td>
<td>Long Beach, CA</td>
<td>April 30th</td>
</tr>
<tr>
<td>Your 2018 Event!</td>
<td>Your facility?</td>
<td>Filling up fast</td>
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**RUN ON LESS**
Thank You!

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Follow NACFE at:
www.NACFE.org
www.TruckingEfficiency.org
www.RunonLess.com