

August 1, 2016 – Novi, MI

**HTUF**

**High-Efficiency Truck Users Forum**

*The Forum for Action in High-Efficiency Commercial Vehicles*

**2016 National  
Meeting &  
Technical  
Exchange**



# Today's Meeting Objectives

- Familiarize attendees with HTUF subject areas
- Update stakeholders on status and results of HTUF and CALSTART activities
- Solicit input and direction on new initiatives
- Build stakeholder interest and participation in working groups



# How Has HTUF Helped the Advanced Vehicle Industry?

- HTUF learnings have driven numerous outside-funded activities and delivered key outcomes:
  - Demonstrations of high-efficiency & zero-emission vehicles in Calif., NY and elsewhere
  - New vehicle incentive programs in Calif., NY & Chicago; effort underway to expand
  - New vehicle & equipment offerings in the market
  - Direction to new EPA/NHTSA fuel economy standards for trucks
  - New market opportunities around vehicle electrification, automation & export power





# ARB - South Coast 43 Truck ZE Drayage Demo

- BYD, Kenworth, Peterbilt, Volvo
- Partners BAE, Transpower, most state air districts
- BEV, PHEV, NG-REEV technologies
- CALSTART helped recruit, design, organize program



# Caterpillar Hydraulic Hybrid Excavator

Early field deployment helped CAT move hydraulic hybrid to market as much as 1 year earlier



Caterpillar employs hydraulic hybrid technology that is 98% common with the conventional 336E excavator to boost fuel efficiency of the 336EH hybrid 50%.

# New Truck Fuel Economy Rules Phase 2

- New “Phase 2” truck fuel economy rules in draft
- Up to an additional 24% reduction in fuel use for Class 8 by 2027
- Extra 16% for vocational
- **Final rules this month**





# HTUF Working Groups

- All are in “scoping” mode – in the process of shaping message, direction & expectations
  - Connected & Automated Truck Users Forum: coordinating commercial industry participation in mixed convoy demos
  - Cybersecurity WG: seeking to finalize needs re: standards
  - Worksite Electrification & Export Power WG: identifying & addressing barriers to greater commercialization
  - Commercial Electric Vehicle WG: addressing critical regulatory barriers





CALSTART  
Clean Transportation Technologies  
and Solutions