

## Advanced Clean Transit Technology Symposium Agenda

10:00 AM – 5:30 PM, Monday, February 8, 2016

Byron Sher Auditorium, CalEPA Headquarters Building, 1001 "I" Street, Sacramento

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**Opening:** 10:00 AM - 10:15 AM

Jack Kitowski

*Chief, Mobile Source Control Division, Air Resources Board*

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### **Session 1: Transit Agency Experience with Operating Zero Emission Buses & Performance Data**

10:15 AM - 11:25 AM

The panel will discuss how to overcome challenges in starting a zero emission bus fleet that will meet existing operational needs, and what is needed to foster large deployment of zero emission buses in the future as fleets expand. The panel will also discuss performance data compared to conventional buses.

**Moderator:**

Tony Brasil

*Chief, Heavy Duty Implementation Branch, Mobile Source Control Division, Air Resources Board*

**Panelists:**

- a. Andrew Papson      *Electric Bus Program Manager, Foothill Transit*
  - b. Lauren Skiver      *CEO & General Manager, SunLine Transit*
  - c. Chris Peebles      *At Large Board of Director, AC Transit*
  - d. Len Engel      *Executive Director, Antelope Valley Transit Authority*
  - e. Leslie Eudy      *Senior Project Leader Hydrogen Technologies & Systems Center, National Renewable Energy Laboratory*
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### **Session 2: Advanced Technology Availability & Outlook**

11:30 AM - 1:00 PM

The panel will discuss what advanced technologies are currently available, what evidence is available today to support technology readiness, how risk can be shared by multiple entities and minimized for transit agencies, and the outlook for technology advancements and costs for the next 5 to 10 years.

**Moderator:**

Jaimie Levin

*Senior Program Manager & Director, West Coast Operations Center for Transportation & the Environment*

**Panelists:**

- a. Tom Hodek      *Director/Program Leader over New Product Development, Cummins Westport, Inc.*
- b. Abas Goodarzi      *President & CEO, US Hybrid*
- c. Christopher Guzy      *Vice President and Chief Technology Officer, Ballard Power Systems*
- d. Bob Devine      *Director, Advanced Applications, BAE Systems*
- e. Matt Horton      *Senior Vice President of Sales & Marketing, Proterra*
- f. Macy Neshati      *Vice President Sales, BYD*
- g. David Warren      *Director of Sustainable Transportation, New Flyer*

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**Lunch Break & Networking:** 1:00 AM - 2:00 PM

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**Session 3: Fuels for Clean Technologies**

2:00 PM - 3:15 PM

The panel will discuss the supply and costs of fuels for clean technologies. Topics include the low carbon fuel standard program, on-site hydrogen production pathways and costs, electricity rate, electricity and gas distribution, and renewable diesel and renewable natural gas.

**Moderator:**

Eileen Tutt

*Executive Director, California Electric Transportation Coalition*

**Panelists:**

- a. Marvin Moon                      *Director of Engineering & EV Program Manager, Los Angeles Department of Water & Power (LADWP)*
  - b. Laura Renger                    *Principle Manager of Air Quality & Climate, Southern California Edison*
  - c. Sahar Kamali                    *Business Development Manager, Clean Energy Renewable Fuels*
  - d. Sam Wade                      *Chief, Transportation Fuels Branch, Industrial Strategies Division, Air Resources Board*
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**Break:** 3:15 PM - 3:30 PM

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**Session 4: On Site Infrastructure for Clean Technologies**

3:30 PM - 5:00 PM

The panel will discuss new on site infrastructure logistics and solutions for alternative fuels used by transit buses. Discussions will include lessons and experience learned from using gaseous fuels, charging standardization, energy storage, and hydrogen fast fueling for large deployment.

**Moderator:**

Catherine Dunwoody

*Chief, Fuel Cell Program, Air Resources Board*

**Panelists:**

- a. Tyson Eckerle                    *Deputy Director of Zero Emission Vehicle Infrastructure, CA Governor's Office of Business and Economic Development*
  - b. Larry Rillera                      *Senior Clean Technology Development Manager, California Energy Commission*
  - c. Mark Kosowski                    *Technical Executive, Electric Power Research Institute*
  - d. Nitin Natesan                      *Business Development Manager, Linde LLC*
  - e. Frank De Rosa                      *Principle, Advanced Solutions, SunEdison*
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**Next Steps & Closing:** 5:00 PM -5:30 PM

Tony Brasil

*Chief, Heavy-Duty Implementation Branch, Mobile Source Control Division, Air Resources Board*

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