A New Era for Clean Transportation: Pathways for Clean Technologies
CALSTART Annual Meeting & Blue Sky Awards Luncheon

Tuesday, December 9, 2014    •    8:00am-5:30pm    •    Los Angeles, California
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Public-private partnership to reduce diesel emissions
“The auto industry as a whole is beating their targets. We are very pleased with the progress to date toward the 2025 standards. The mid-term review only affects model years 2022 through 2025, and there are three possible outcomes of our review: the standards could stay the same, they could become more stringent, or they could become less stringent”.

"We would all benefit from a longer-term fuel policy....we plan to address the 2014 renewable fuel standard, along with 2015 and 2016, as soon as we can in the coming year".

Christopher Grundler,
Director, Office of Transportation and Air Quality, US Environmental Protection Agency
“Success stories from ARPA-E have common themes, including new technologies and ideas that blur existing lines of categorization. While projects are differentiated between transportation and power production, in several cases there are solutions that address both.”

Dr. Cheryl Martin, Acting Director, Advanced Research Projects Agency – Energy (ARPA-E), US Department of Energy
“If you look at what is required to make these (renewable) fuels available, there is not enough supply to last in the long term. We’ll need conversion facilities similar to IPP projects and we need a security package with it. Without certainty, determining the value of the resource is hard. There is no corresponding framework in place to create long-term degrees of certainty in order to get financing.”

Jeff Reed, Director, Business Strategy and Advanced Technology, Sempra Utilities

Next Generation of Clean Fuels Panel
Some researchers are indicating 5% penetration would have a significant impact on this development (of autonomous vehicles). In the US, developments are driven by the US Department of Transportation because of the safety emphasis. They need to look to environmental possibilities, too.

Jan Hellåker, Vice President, Transport Solutions and Services, Volvo Trucks

Next Generation of Clean Technologies Panel
“Forty percent of greenhouse gases, 80% of NOx, and 95% of diesel particulates come from transportation sector. There have been big improvements, but we need to do more. There’s no way around this. We need 90% NOx reduction to get to standard in some places. How did we get to where we are? A series of partnerships with EPA and others, low-carbon fuels standards, in-use fleet changes, new vehicle standards – we need it all.”
“It doesn’t make sense to say we shouldn’t pick winners. Policy bets on outcomes anyway. You have to take some bets, and this is a risk business at the end of the day. We’re not geared to take technology risks. Our primary risk assessment is the ability of someone to pay. The other thing we focus on is gaining insights into customers, and what it is that end-users want at the end of the day. Our role is to try and find entrepreneurs trying to identify a solution.”
“In the 2024 timeframe California will be in a state of significant over-generation. Managing charging for electric vehicles can help address that challenge.”
“The Chinese culture has a different view of knowledge. In China, the culture is that knowledge is free to share; you can’t own knowledge. They aren’t doing something criminal—it is just a different way of thinking. If you want to do business in China by trying to protect your business model, don’t even go. If it is easily copy-able, it will be copied. We try to keep upgrading and innovating, so if they copy what we did last year that’s fine because we have something new. We’ve had no blatant intellectual property infringement.”
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Mary Nichols, Chairman, California Air Resources Board

California’s Low Carbon Fuel Standard

“We are going to stay the course.”—Speaking about the Low-Carbon Fuel Standard (LCFS)
“Since I helped found CALSTART 22 years ago, we’ve gone from one electric car to 120,000. That’s great, but **the pace of everything has to be picked up**...next week the CPUC will remove the blanket prohibition of utility engagement in EV sector....next year on a case by case basis we will review the individual utility rate case to finance and enable 'make ready' EV infrastructure. I like what SCE is proposing.”
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Blue Sky Award Winner

Senator Fran Pavley
California State Senate, District 27

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Senator Ricardo Lara
California State Senate, District 33

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Assemblyman Henry T. Perea
California State Assembly, District 31

BAAQMD Executive Director Jack Broadbent presents award to Assemblyman Perea's Chief of Staff, Jesse Cuevas.
Blue Sky Award Winner

Dave Barthmuss Group Manager, Western Region and Environment, General Motors
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Blue Sky Award Winner

FritoLay
Good fun!

CALSTART Board Member Karen Hamberg, VP, Westport Innovations (center), presents award to Mike O’Connell, Senior Director Fleet Capability, Frito-Lay (right), Steve Hanson, Director, Engineering and Sustainability, Frito-Lay (left).
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Blue Sky Award Winner

CALSTART Board Member Steve Trichka, VP, HybriDrive Solutions – BAE (center), presents award to Jim Halloran, Manager - State Government Affairs - Western Region, Caterpillar (left), and Kevin Duffy, Manager, Energy and Power Systems, Caterpillar (right)
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2014 Blue Sky Award Winners

Senator Fran Pavley, California State Senate District 27
Senator Ricardo Lara, California State Senate District 33
Assemblyman Henry T. Perea, California State Senate District 31
General Motors
Frito-Lay
Caterpillar Inc
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