

Flexible Solutions for Freight Facilities Community Webinar

June 10th 3:30 - 4:30 PM



The Flexible Solutions for Freight Facilities Project was a \$45 million transformative collaborative project led by BNSF Railway that demonstrated zero and near-zero emission technologies in and around BNSF railyards. As part of the project, a Mi-Jack brand hybrid-electric rubber-tire gantry (RTG) crane was demonstrated at the Stockton and San Bernardino railyards. Also deployed at the San Bernardino railyard was a full-electric side loader and BYD's Class 8 drayage truck. Wabtec Corporation designed, manufactured and commissioned a single Battery Electric Locomotive (BEL) that operated between Stockton and Barstow in commercial operations.

FEATURING SPEAKERS FROM BNSF RAILWAY, WABTEC, CALIFORNIA AIR RESOURCES BOARD, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT AND CAFE COOP MODERATING



DAN MCNAIR
Wabtec Corporation

Dan McNair has 17 years of product, program and contract management experience. Dan, as a graduate of GE's Experienced Commercial Leadership Program (ECLP), also has 11 years of experience as a GE transportation/Wabtec sales and product leader. He is currently the Director of locomotive product strategy and new technology. In this role, Dan is leading product introduction efforts for energy storage and electrification technology for future hybrid and zero emission locomotives, inclusive of battery electric, globally. Dan holds a B.A. in Economics from the Virginia Military Institute and an MBA from Georgetown's McDonough School of Business.



CHRISTINA FUGAZI
San Joaquin Valley Air Pollution Control Board Member

Christina is chair of the San Joaquin Regional Rail Commission for the last 3 years and a member since 2015. Also a member of the San Joaquin Valley Air Pollution Control Board since 2016 and SJCOG since this year, 2021. Christina Fugazi is serving her second term as City Councilmember, representing District 5. She was elected in November 2014 for the 2015-2018 term of office and again in November 2018 for the 2019-2022 term, after having served eight years as a City of Stockton Planning Commissioner. Councilmember Fugazi served as Vice Mayor from 2015-2016 and was appointed Vice Mayor by Mayor Kevin Lincoln on April 13, 2021.



MICHELLE BUFFINGTON
California Air Resources Board Rep

Dr. Buffington oversees several initiatives at the California Air Resources Board that relate investments in emerging technologies in the heavy-duty and off-road sectors. She began her career at CARB in 2007 developing the Low Carbon Fuel Standard, with a focus on biofuels and land use change. Over the last 6 years she and her team have focused on investing in emerging technologies in the heavy-duty and off-road sectors in order to improve air quality and reduce climate change impacts. This includes innovative demonstrations and pilots of zero-emission technologies, including this project which is comprised of the zero-emission battery electric locomotive and other freight handling equipment. Michelle grew up in Pennsylvania and moved to California in 2001.



TODD DEYOUNG
San Joaquin Valley Air Pollution Control District Rep.

Mr. DeYoung has over 20 years of experience administering federal, state and local incentive programs at the San Joaquin Valley Air Pollution Control District and recently became the Director of the Grants and Incentives department in 2019. Mr. DeYoung has been involved in all aspects of incentive program administration, including grant writing, program development, processing, contract negotiation, implementation, and auditing. Additionally, Mr. DeYoung serves on several statewide incentive program related committees including the California Air Resources Board Incentive Program Implementation Committee and recently served as the Chair of the California Air Pollution Control Officers Association Mobile Sources and Incentives Subcommittee. Mr. DeYoung holds a Bachelor of Science degree in environmental geography from California State University, Fresno.



MICHAEL CLEVELAND
BNSF Railway

Michael Cleveland is the lead for BNSF's battery electrification and energy storage initiative. Michael has over 10 years of experience with BNSF working in the locomotive department as a technology subject matter expert and project leader. He has successfully implemented projects ranging from EPA engine certifications to battery electric locomotive equipment. Michael formed and lead BNSF's battery electrification team, which aims to reduce the environmental footprint and costs through the implementation of vehicle technology projects leveraging emerging energy storage technologies. Throughout this initiative BNSF has implemented battery electric yard tractors, side-loaders, hybrid rubber tire gantry cranes, and battery electric locomotives. He led BNSF's partnership with Wabtec in the development, manufacturing, and demonstration of the first linehaul battery electric locomotive. This locomotive operates within a consist of other conventional diesels to form a hybrid consist. He has a MS in mechanical engineering from Texas A&M University and a BA in Physics from Austin College in Sherman, TX.



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