



ET Summit 2023 Final Agenda

August 28, 2023, 1:20-3:20 PM PT

Intro and Overview of CalNEXT 1:20-1:35 PM PT

CalNEXT identifies, tests, and grows electric emerging technologies and delivery methods that have the potential to make major impacts on achieving California's climate goals. Our goal is to provide support and resources for the implementation of 170 projects over the next six years. CalNEXT's team of experts identify and resource ideas to advance the state's priorities for decarbonization through electrification, utility grid priorities such as load flexibility, new measures for utility programs, and engaging hard-to-reach customers and disadvantaged communities. Project categories include research and development addressing appliances, HVAC, lighting, process loads, water heating, plug loads and appliances, and whole buildings.

- 15 min - Cassidee Kido, Energy Solutions

Workforce Development and Infrastructure 1:36-2:35 PM PT

CalNEXT is examining how market barriers and other deployment challenges for high-impact solutions can be resolved through technology or other innovative deployment approaches. This session will include a discussion on an emerging series of heat pump products to address the electrification of the multifamily sector and how innovations in deployment are working to support the electrification of the residential water heating sector. From there, we will look forward to how our program's Technology Priority Maps (TPMs) view workforce and workforce training challenges through an ET lens including how design and sizing tools, intelligent customer targeting, and automated commissioning tools can be part of a solution to address the workforce challenges related to decarbonization.

- 5 min - Session Introduction - Tim Minezaki, Energy Solutions
- 10 min - Multifamily In-Unit Heat Pump - Chris Badger, VEIC
- 20 min - Technology Priority Maps (TPMs) - Tim Minezaki, Energy Solutions
- 10 min - Emergency Replacement Heat Pump Water Heater Market Study - Chris Badger, VEIC
- 15 min - Q&A - Erin Fitzgerald, Energy Solutions

Coordination Efforts with other Programs and Initiatives 2:36-2:51 PM PT

CalNEXT emphasizes the need for successful technology transfer of completed projects. To successfully coordinate efforts with other programs, the CalNEXT team has been in communication with the California Technical Forum (CalTF) and California's Market Transformation Administrator (CalMTA) along with programs specific to the technologies being studied. This session includes updates on impacts and outcomes from coordination with CalTF and CalMTA.

- 8 min - CalTF - Greg Barker, Energy Solutions
- 7 min - CalMTA - Marisa Lee, Energy Solutions

- Q&A - Erin Fitzgerald, Energy Solutions

CalNEXT Projects Outside of Summit Initiatives 2:52-3:20 PM PT

CalNEXT, initiated in 2022, has started work on 39 Technology Support Research (TSR) and Technology Development Research (TDR) projects to date. This session will highlight various projects that focus on technologies outside of the ET Summit Initiatives. Join our speakers to understand what the CalNEXT team has been working on surrounding new electric vehicle (EV) charging solutions within multifamily buildings and energy efficient water heater retrofits.

- 15 min - Advanced Multifamily EV Load Management System - Ryan Bird, Energy Solutions
- 15 min - Residential Water Heater Sizing Measure Package Support - Marc Fountain & Lake Casco, TRC
- Q&A - Erin Fitzgerald, Energy Solutions

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Equitable Decarb 1:20-2:20 PM PT

CalNEXT's team of experts identify and resource ideas to advance the state's priorities for decarbonization through electrification, utility grid priorities such as load flexibility, new measures for utility programs, and engaging hard-to-reach (HTR) customers and disadvantaged communities (DAC). This session will provide information on how CalNEXT is prioritizing HTR and DAC projects through the scanning and screening (S&S) process and will detail a few of the projects that impact HTR customers and DACs.

- 10 min - Session Introduction - Rebecca Rothman, VEIC
- 15 min - Residential Housing Characteristics Study - Irina Krishpinovich, The Ortiz Group
- 15 min - Low-Income Multifamily Housing Characteristics Study - Kevin McGrath, VEIC
- 10 min - Mobile and Manufactured Housing Market Characterization Study - Kevin McGrath, VEIC
- 10 min - Q&A - Erin Fitzgerald, Energy Solutions

C&I Electrification 2:21-3:20 PM PT

CalNEXT has identified commercial and industrial (C&I) Electrification opportunities within commercial food systems. Join this CalNEXT session to learn about completed findings, in progress work, and where we are expanding to other sectors. There will be an opportunity to ask our presenters questions about their projects.

- 5 min - Session Introduction - Derek Okada, Energy Solutions
- 15 min - All-Electric Commercial Kitchen Electrical Requirements Study Evaluation - Kyle Booth, Energy Solutions
- 15 min - Market Potential for HP Assisted Hot Water Systems in Food Service Facilities - Amin Delagah, TRC
- 15 min - Industrial Heat Pumps Market Study - Colin Lee, AESC
- 10 min - Q&A - Erin Fitzgerald, Energy Solutions

August 29, 2023, 3:30-4:00 PM PT

Networking Session

Network with the CalNEXT program team. You can ask more detailed questions about the program, swap contact information, and get to know the team in a more casual setting. We look forward to connecting with each of you!

Speakers

Amin Delagah

Amin Delagah is an Associate Director at TRC in the Research & Consulting Group and has over 18 years of mechanical engineering and advocacy experience working in the energy efficiency field, primarily in the food service facility and multi-family building sectors. Amin is a subject matter expert in domestic hot water systems, serves on related committees at ASHRAE and ACEEE, and has supported emerging technology projects, building energy code development, and incentive program design in California.

Cassidee Kido

Cassidee Kido is a Senior Project Manager on Energy Solutions' Business Strategy Team where she leads the implementation of the California Statewide Electric Emerging Technologies Program and supports the ComEd Customer Solutions Innovation Program. She has led the development of multiple Title 20 CASE reports and various local reach codes and has field experience with installing EV charging management software for fleets. Cassidee received her Bachelor of Science in Electrical and Computer Engineering and now focuses on leading her teams through strategic planning and process management.

Chris Badger

Chris Badger is a Senior consultant at VEIC and manages projects that involve the design and assessment of emerging technology markets and efficiency programs related to high-impact water heating, HVAC, and appliance efficiency. Chris serves as VEIC's water heating lead for CalNEXT, a statewide initiative to identify, test, and grow electric technologies and delivery methods to support California's decarbonized future.

Colin Lee

Colin Lee holds dual bachelor's degrees in Business and Chemical Engineering from the University of Western Ontario and a master's degree in Chemical Engineering from the University of California, Berkeley. He currently works as a Staff Engineer at Alternative Energy Systems Consulting, Inc., supporting CalNEXT, the California Statewide Electric Emerging Technologies Program

Derek Okada

Derek Okada is a Senior Fellow with Energy Solutions' Business Strategy Team. Derek has over 25 years of strategic planning, financial planning and analysis, and project/program management experience from working in the energy consulting/utility, media/publishing, information technology, automotive, and financial services industries with several Fortune 500 companies. Prior to joining Energy Solutions, Derek managed a team of eleven program managers and support staff responsible

for administering the majority of SCE's Energy Efficiency programs including the Commercial, Industrial, Agricultural and Public Sector markets, and oversaw financing solutions to serve these markets.

Greg Barker

Greg Barker, Technical Director, has led technical teams in energy efficiency and demand response for over 19 years at Energy Solutions. He has designed and implemented a variety of program types with a wide range of technologies. He has expertise in developing energy use and demand savings estimates, energy modeling, and codes and standards. Greg is a licensed Professional Engineer and lives in Vancouver, British Columbia.

Irina Krishpinovich

Irina Krishpinovich, Program Manager, has over 25 years of experience in energy efficiency program design, implementation, and management, with expertise in residential applications. For The Ortiz Group, she manages the CalNEXT and TECH Clean California program engagements which focus primarily on ensuring program equity goals are achieved. Irina has worked in the public and private sector, and with community-based organizations, many of which serve disadvantaged communities and hard-to-reach areas across California.

Kevin McGrath

Kevin McGrath is a Consultant for VEIC, a nonprofit organization that helps clients meet their clean energy and decarbonization goals through innovative and equitable solutions. Founded in 1986, VEIC is nationally recognized for award-winning energy efficiency and clean energy programs as program administrator for Efficiency Vermont, the DC Sustainable Energy Utility, and Efficiency Smart, as well as a full-service consulting practice that conducts innovative research and develops pilot projects that advance emerging technologies. Kevin's work with VEIC has focused on equitable building electrification, conducting research, and providing program design support for program managers to implement strategies to ensure that low- and moderate-income households and underserved communities can access opportunities and afford to electrify their homes.

Kyle Booth

Kyle Booth is a Senior Staff Engineer at Energy Solutions. He leads Energy Solutions' Market Study product and is a subject matter expert for CalNEXT on process loads, lighting, and water heating technology areas. Kyle is the Foodservice Domain Lead for Energy Solutions' Energy Efficiency Department and has extensive knowledge of the food service industry.

Lake Casco

Lake Casco, Senior Energy Engineer at TRC, has diverse experience in the field of advanced energy. He is skilled in developing deemed measures, reviewing energy codes, calculating energy savings, and estimating project costs. He also performs whole building energy audits, where he calculates savings, evaluates financial metrics, and drafts reports. Lake has developed Excel, Visual Basic, SharePoint, and GIS web application-based tools for various energy-related purposes for public agencies and utility customers. He has also led the development of site and portfolio wide ZNE and decarbonization audits and roadmaps.

Marc Fountain

Marc Fountain, Research and Consulting at TRC, contributes to TRC's technology-to-market research projects, which aim to scale up market adoption of new and emerging technologies that improve energy performance and occupant experience in buildings. This includes research on a wide range of topics including heating, ventilation, and air conditioning (HVAC) systems, HVAC and lighting controls and analytics, integrated design, building envelopes, occupant comfort, decarbonization, codes and standards, and grid-responsive buildings.

Marisa Lee

Marisa Lee, Senior Project Manager with Energy Solutions, is the CalNEXT Technology Focused Pilot liaison to CalMTA. Over the past twelve years, Marisa has been involved in managing and developing energy efficiency, load management, codes and standards, and emerging technology programs across California and beyond.

Rebecca Rothman

Rebecca Rothman, Managing Consultant at VEIC, is an expert in civil and environmental engineering with specializations in energy efficient design, water and air quality management, and utility construction. She excels at strategic planning, process improvement, and management of diverse, multidisciplinary teams. She has extensive experience in regulatory interpretation and permitting. Based in California, Rebecca leads VEIC's participation in CalNEXT, the state's Emerging Electric Technology program. She provides strategic planning, leads research projects, and heads a matrixed team of technical professionals overseeing the Project Idea Scanning and Screening process.

Ryan Bird

Ryan Bird, Associate Director, leads Energy Solutions' clean transportation practice, designing and implementing programs that accelerate the adoption of zero-emission transportation technologies and manage the grid impacts of vehicle electrification. In 10 years at Energy Solutions, he has managed and worked on innovative projects in electric vehicle (EV) infrastructure and vehicle-to-grid integration, demand response, and other DER technologies.

Tim Minezaki

Tim Minezaki is a Senior Staff Engineer at Energy Solutions. Tim brings over 14 years of experience in energy efficiency and has worked a wide range of utility programs across all parts of the adoption curve from Emerging Technologies, Energy Efficiency program support for Deemed & Custom Programs, to Appliance Standards and Building Code Development. In his current role, he leads the technology research strategy for the CalNEXT program.