

PANEL 12 ACCEPTED PAPERS

| Title | Category | Lead Author First Name | Lead Author Last Name | Lead Author Organization |
|--|-----------------|-------------------------------|------------------------------|--|
| Enhancing the Role of Plug Loads in Grid-Interactive Buildings Using Smart Plugs | Oral | Yao-Jung | Wen | Energy Solutions |
| Large-scale simulation of regional demand flexibility implementation and customer economic impact | Oral | Hayden | Reeve | Pacific Northwest National Laboratory |
| Engaging Contractors: a Critical Partner to Realize the Load Shifting Potential of HPWHs | Oral | Emily | Kehmeier | Energy Solutions |
| Towards an Equitable Grid-Interactive Efficient Building Landscape: Visualizing Technology Adoption in the State of New York | Oral | Danielle | Preziuso | Stevens Institute of Technology |
| Smart Home Energy Monitoring: Data-Driven Opportunities and Customer Engagement | Oral | Amalia | Hicks | Cadmus |
| Methodology for Modeling Savings for Home Energy Management Systems | Oral | Robert | Hendron | Frontier Energy |
| Keys to Successful Smart Building Implementation: People and Process | Oral | Kevin | Coleman | Resource Innovations |
| SunDial Integration of Building Load Management, Solar PV, and Energy Storage to Support the Electric Grid: Lessons from a Field Pilot | Oral | Kurt | Roth | Fraunhofer USA |
| Optimizing GEBS value streams for the medium commercial buildings market: Results from a DOE/GSA High Impact Technology Catalyst Demonstration | Oral | Patsy | Dugger | Alternative Energy Systems Consulting (AESC) |
| GridFlex: Introducing metrics to benchmark building-grid interactivity | Oral | Kevin | Carbonnier | New Buildings Institute |
| Battery Energy Storage Systems and PV/Battery Microgrid Applications for Buildings | Oral | David | Kaneda | IDeAs Consulting, Inc. |
| Learnings from The LADWP's LKIC HUBe DR Pilot Platform Showcase | Oral | Phillip | Roberts | NetZero Energy Systems, Inc. |
| Accelerating Load Flexibility with the California Flex Hub and Automated Price Response | Oral | Mary Ann | Piette | LBNL |
| RESNET Load Flexibility Task Group: Developing Ratings that Incentivize Demand Responsive Buildings and a Cleaner Grid | Oral | David B. | Goldstein | Natural Resources Defense Council (NRDC) |
| Making Grid-Interactive Efficient Buildings a "Win" for Both Customers and Utilities | Oral | Andrew | Satchwell | Lawrence Berkeley National Laboratory |
| Decarbonization impact of Grid-Interactive Efficient Buildings – An affordable housing use case | Oral | Agatha | Kazdan | Electric Power Research Institute (EPRI) |
| Evaluating the performance of HVAC optimal control based on real-time floor-by-floor occupancy data | Oral | Guanjing | Lin | Lawrence Berkeley National Laboratory |
| Towards a Stronger Foundation: Digitizing commercial buildings with Brick to enable portable advanced applications | Oral | Carlos | Duarte Roa | Center for the Built Environment, University of California, Berkeley |

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| A multi-level load shape clustering and disaggregation approach to characterize patterns of energy consumption behavior | Oral | Samanvitha | Murthy | Lawrence Berkeley National Laboratory |
| Solar+ Optimizer: Integrated control of solar, batteries, and flexible loads for small commercial buildings | Oral | Lazlo | Paul | Lawrence Berkeley National Lab (LBNL) |
| Field Study of Grid-connected Heat Pump Water Heaters in the Southeast U.S. - The Next Right Thing | Oral | Joshua | Butzbaugh | Pacific Northwest National Laboratory |
| Field Study Demonstrates Financial and Grid Benefits of EV Bidirectional Charging | Oral | Daniel | Real | Advanced Energy |
| Retargeting Demand Response for Carbon Positive Flexible Buildings | Oral | Craig | Roussac | Buildings Alive |
| Impact and Incentives for Load Management Strategies in Multifamily Buildings | Oral | Mark | Frankel | Ecotope, Inc. |
| Unsupervised Learning for Detecting VAV Anomalies in Commercial Buildings | Oral | Hao | Huang | Buildings Alive |
| A low cost centralized HVAC control system solution for energy savings, load shedding, and improved maintenance | Oral | Nicolas | Fauchier-Magnan | University of California, Davis |
| Trust, competence, and innovation: Understanding customers' energy and smart home brand perceptions | Oral | Beth | Karlin | See Change Institute |
| Cloud-Control of Legacy Building Automation System: A case study | Oral | Anand Krishnan | Prakash | Lawrence Berkeley National Laboratory |
| At long last: realizing the promise of non-intrusive load monitoring | Oral | Jennifer | McWilliams | DNV |
| When smart thermostats are dumb: lessons learned from evaluating eight advanced thermostats | Oral | Therese | Peffer | California Institute for Energy and Environment, UC Berkeley |
| Almost DIY: nonintrusive way to make your home grid integrated | Alternate | Michael | Zeifman | Fraunhofer Center for Manufacturing Innovation |
| Quantifying the Value of Grid-Interactive Efficient Buildings through Field Study | Alternate | Rois | Langner | NREL |
| The Duck and its Bill: Potential Impacts of Dynamic Electricity Pricing on California Utility Customers | Alternate | Brian | Gerke | Lawrence Berkeley National Laboratory |
| Cyber-Physical-Social Digital Platform for Microgrids (CPSDPM): Addressing Design Gaps for Historically Underserved Communities | Alternate | Dr Ashok | Das | SunMoksha Power Private Limited |
| Energy Efficiency for a More Affordable Decarbonized Grid | Alternate | Ryan | Hledik | The Brattle Group |
| Real-time Carbon Emission Responsive Electric Vehicle Charging Control for Decarbonization | Alternate | Jing | Wang | National Renewable Energy Laboratory |
| The Smarts of Smart Thermostats | Alternate | Kessie | Avseikova | Opinion Dynamics |

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| Seamlessly Fuel Flexible Heat Pump with CTA 2045-Compliant Control Strategy to Reduce Peak Demand, Utility Cost and CO2 Emission | Alternate | Zhenning | Li | Oak Ridge National Laboratory |
| Demand Response Capabilities of Refrigerated Warehouses: Experiences in Practical Implementation | Alternate | Ammi | Amarnath | EPRI |
| “If One GEB is Good, a Community of GEBs is Better” | Alternate | David | Nemtsov | U.S. Department of Energy |
| Residential Modeling Enhancements to Identify Least-Cost Pathways to Net Zero Carbon Homes | Visual | Ben | Polly | National Renewable Energy Laboratory |
| A Model-Free Control Strategy for Power Allocation of Building Loads Under Measurement Time Delays | Visual | Bhagyashri | Telsang | University of Tennessee Knoxville |
| Exploring an Advanced Role for DERs in Ontario’s Electricity Market | Visual | Ahmed | Hanafy | Dunsky Energy + Climate Advisors |
| Navigating the Complex World of EV Load Management | Visual | Scott | Dimetrosky | Apex Analytics |
| A Brick Enabled and Mortar Tested Application to Detect Passing Valves in Hot Water Distributions Systems | Visual | Carlos | Duarte Roa | Center for the Built Environment, University of California, Berkeley |
| The Price is Right? Encouraging Load Shifting with Time of Use Rates | Visual | Xuechen | Lei | Pacific Northwest National Laboratory |
| Price-Based Grid Coordination | Visual | Bruce | Nordman | Lawrence Berkeley National Laboratory |
| Market characterization of space heating heat pump and heat pump water heater Load Flexibility controls for residential applications in California | Visual | Jingjuan Dove | Feng | TRC Companies, Inc |
| Refrigerated Display Cases – Can They Flex Their Power? | Visual | Grant | Wheeler | National Renewable Energy Laboratory |
| How to Build a Connected Community: Government Policies to Promote GEBs | Visual | David | Nemtsov | U.S. Department of Energy |