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# INFORMAL SESSIONS

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**TUESDAY 2:00 – 4:00 PM**

## **Update on the Development of California’s New eTRM**

**Jennifer Barnes**, Future Energy Enterprises, LLC

In this session, Cal TF staff will describe California’s electronic technical reference manual (the eTRM) and the key components of the development process including statewide measure consolidation and the regulatory path for the eTRM to become the database of record for California’s deemed measures. This informal session will also be an opportunity for participants to tour the eTRM and provide feedback on the most important/useful features.

## **Challenges, Successes, and Experiences in Utilizing Advanced Analytics to Achieve Energy Savings**

**Bryce Dvorak**, Michaels Energy

This session presents an opportunity to share experiences utilizing energy information systems (EIS), fault detection diagnostics (FDD), automated HVAC optimization, and monitoring based commissioning (MBCx) strategies to reduce energy consumption. Potential discussion topics will include: the current state of efficiency program incorporating these technologies, customer challenges to implementation, differentiating products on the market, maintaining customer engagement with their EIS, integration with strategic energy management (SEM) practices, issues in evaluating EIS programs, providing the proper level of customer support, and addressing customer security concerns.

## **How Many Climate Change Deniers Does it Take to Screw in a Light Bulb? What Do We Know about the 2020 Light Bulb Energy Efficiency Standards?**

**Chris Granda**, Appliance Standards Awareness Project

Current federal law includes a “backstop” standard requiring the US Department of Energy to issue a minimum efficiency standard of 45 lumens per watt for all general service lamps, effective 1/1/2020. This requirement is being challenged by the National Electrical Manufacturers Association (NEMA), lighting manufacturers, and perhaps the Trump administration. During this session, we will review how this light bulb standard works, which light bulbs it applies to, and various ways that the “battle for the backstop” might unfold over the next eighteen months.

## **Introduction to the New National Standard Practice Manual (NSPM) for Assessing the Cost-effectiveness of Energy Efficiency Programs**

**Martin Kushler**, American Council for an Energy-Efficient Economy

This session will present a brief overview of the new National Standard Practice Manual (NSPM) for assessing the cost-effectiveness of energy efficiency programs. Authors of the manual will take questions, and examples of current applications of the principles and methodologies of the manual in various states will be discussed. One particular area of application will be in regard to the issue of health and environmental benefits.

## **Electrification of Residential Space and Water Heating: What's Happening and How Do We Address Some Challenging Issues?**

**Steve Nadel**, American Council for an Energy-Efficient Economy

There is increasing interest in replacing furnaces, boilers and water heaters that burn fossil fuels with advanced high-efficiency heat pumps in order to save energy, reduce GHG emissions, and save consumers money. Many studies have been conducted comparing heat pumps with fossil fuel systems and some initial programs have begun.

The first part of this session will begin with a brief overview on the topic including discussion of “why electrification” and brief summaries of several of the recent studies. We will then discuss policy and program approaches now being developed, particularly in northeast and California. There will be opportunities for participants to share updates on building electrification activities in their region.

The second part of this session will be a facilitated discussion on issues facing electrification efforts including dealing with existing policies such as EERS, fuel neutrality and load building policies; protecting and enhancing more conventional energy efficiency policies; and addressing concerns of gas utilities. The session will end with a discussion on needed next steps.

## **Energy Efficiency in Affordable Multifamily House**

**Stefan Samarripas**, American Council for an Energy-Efficient Economy

The session will provide an opportunity for those working to improve the efficiency of affordable multifamily buildings to share their experiences and connect with one another.

## **Zenarios – Setting Context to the ZNE Solution Space**

**Smita Gupta**, Itron

The session will discuss a framework for assessing relative priority of technology in different scenarios of ZNE. The ZNE scenarios are a combination of scale (single site or community scale) and fuel mix (all electric or mixed fuel). The technology assessment is based on nine objective criteria. The work is based on a recently completed project for the California Energy Commission, funded under EPIC. The zTAP (ZNE Technology Assessment and Prioritization) tool has extendible uses and the session will cover a description of the tool along with discussion on potential future uses. The target audience include local jurisdictions, utilities and CCAs, along with other regional and state agencies adopting and implementing ZNE.