



# CONFERENCE THEME

As one of the most relevant and respected professional and educational organizations in the energy industry, the Association of Energy Engineers, Southern California Chapter is excited to once again host our annual conference on 9/19/19. Held at the Sempra SoCalGas ERC, we will present and discuss several topics that are very much in the forefront of every major energy related organization in the country.

The mission of the SoCal Chapter is to educate, connect, and promote business opportunities among entities that are located and operated in Southern California. Our chosen topics this year represent global and national concerns that significantly impact how we will live, work, and conduct our daily lives.

Southern California in many ways is a microcosm of what will impact the rest of the nation. We have a co-existence of various industries like manufacturing, farming, transportation, aerospace, retail, leisure & hospitality, information technology, media, professional services, as well as home to two of the largest ports in the country.

As such, our chosen topics will undoubtedly be discussed for many years to come, since it will take a collaborative effort for every piece of the puzzle to come into place.

For 2019, the AEE SoCal Annual Conference theme will be **Energy Safety, Security, and Sustainability**. Please consider participating to share your vision and knowledge.

**Help us inspire and get inspired.**

9.19.19

ASSOCIATION OF ENERGY ENGINEERS

## Safety

Californians have recently suffered some of the most devastating disasters connected with the energy industry. The San Bruno and Aliso Canyon gas pipeline/storage leakage incidents, Thomas and Camp Fires—attributed to utility lines—caused irreparable damage and loss. As energy professionals must do everything we can to develop safer technologies and practices, and accept climate change as a new reality. Kudos to the thousands of utility professionals who are tackling these significant issues. Let’s take this opportunity to discuss what additional technology, resources, investments will be required to keep us safe. Another factor plaguing the state is the constant threat of the long overdue “big one.” *What are the best possible temporary replacement, and permanent recovery scenarios after a major earthquake?*

## Security

The strength and function of our nation wholly depends on the reliability and availability of our energy systems, yet the recent report from the Director of National Intelligence sounded significant warnings regarding the ability of our adversaries to interrupt both our electricity and natural gas grid systems. The US Department of Energy (DOE) Office of Cybersecurity, Energy Security, and Emergency Response (CESER) developed CRISP (Cybersecurity Risk Information Sharing Program) to combine state-of-the-art threat analysis capabilities with US Intelligence insights to identify sophisticated attacks targeting critical US energy infrastructure. The US Department of Energy and Federal Energy Regulatory Commission (FERC) also want to explore how federal and state authorities could incentivize cybersecurity and physical security in the power and natural gas sectors. *How do we participate in Southern California in this public/private effort to strengthen our grid against these potential attacks?*

## Sustainability

One of the most ambitious goals in the country to achieve Net Zero Energy is California’s SB100, with the objective of 33% renewable energy by 2020, 50% by 2030, and 100% by 2045. This plan is highly supported by the scientific community as one of the most important and crucial pieces of legislation for the sustainability of the planet and the human race. To achieve this goal, however, we will need to develop comprehensive solutions. *For example, to maintain security and reliability to energy users, the combination of energy storage, DER, and microgrids are good solutions, but are they safe and resilient to cyberattacks? Will renewable energy become truly affordable and accessible in time? Where should our energy engineers focus their efforts on future research and development?*

AEE SOCAL 2019  
ANNUAL CONFERENCE  
SAFETY, SECURITY, SUSTAINABILITY

