California Plug Load Research Center Workshop

The Twelfth Semiannual Workshop on Energy Efficient Plug Loads

April 10, 2018



Dr. G. P. Li

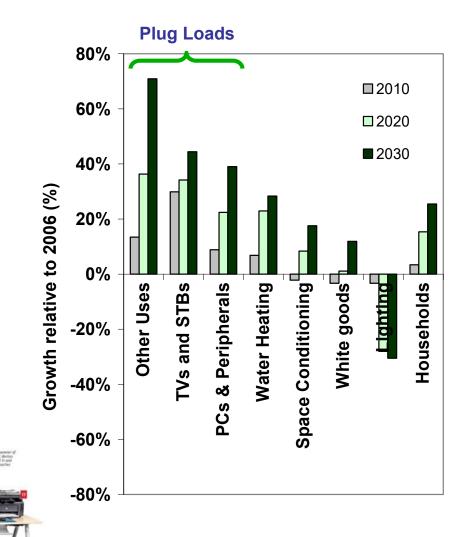
California Plug Load Research Center

California Institute for Telecommunications and Information Technology



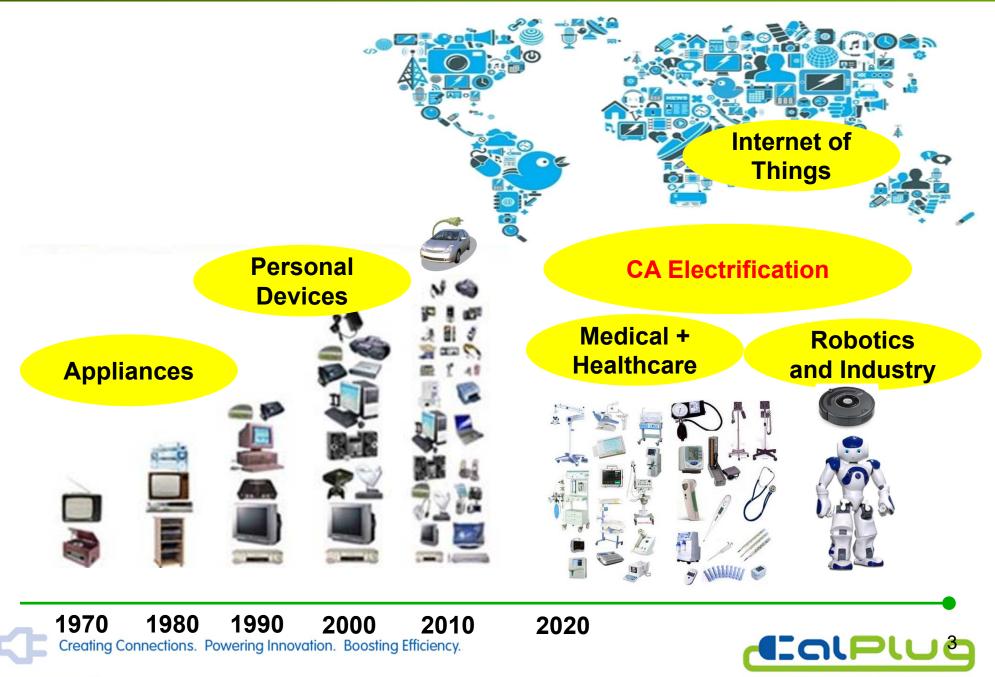
CalPlug Purpose

- Help California and U.S. improve energy efficiency in appliances and electronic devices
- In the residential and commercial sectors
- Through research (basic and applied), demonstration, and education
- About engineering, incentives, codes and standards, and user behavior





Residential and Commercial Plug Loads

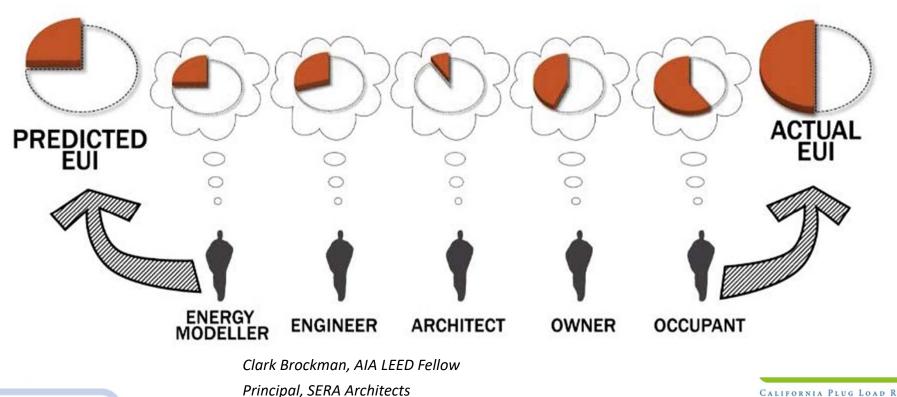


CALIFORNIA PLUG LOAD RESEARCH CENTER

Integrating ZNE Building Design with **Personal Energy Footprint Management**

ENERGY USE **PREDICTED vs. ACTUAL**

Electrification Path Leading to More Electrical **Plug Loads: Challenges** and **Opportunities**



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CalPlug Workshop

Goal:

To have an open forum for plug loads information exchange and to accelerate their adoption of energy efficiency by all means including innovation in hardware and software, codes and standards, and incentives and rebates

> Anticipated outcome:

To create an energy efficiency working group for strong collaborations among players including research centers, manufacturers, service/content providers, utilities and government agencies



CalPlug Workshop

Morning session: Keynote by Prof. Scott Samuelsen, then Progresses on CalPlug projects, and lastly an update on Smart Manufacturing.

Afternoon sessions will focus on a contemporary topic of CA Electrification Planning and Activities.

Afternoon networking reception including lab demos by students.

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Acknowledgements

- CTA and its member companies for support and guidance in plug load research and related projects
- SCE support for plug loads projects
- > PG&E support for APS II hosting
- CEC– EPIC project support
- CalPlug member companies and sponsors (newest ones: SDGE and Ibis Networks)
- Speakers, and CalPlug & Calit2 staff and students



We welcome opportunities for collaboration. Thank you!

