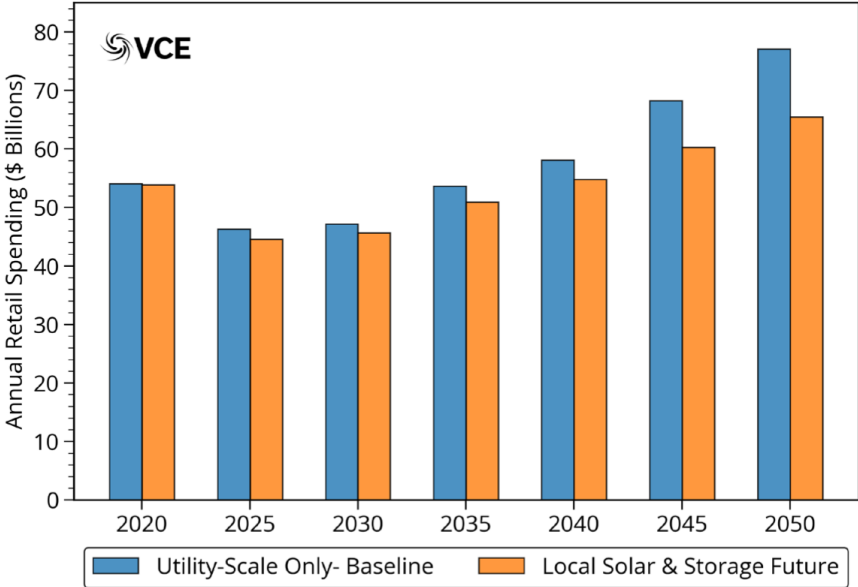


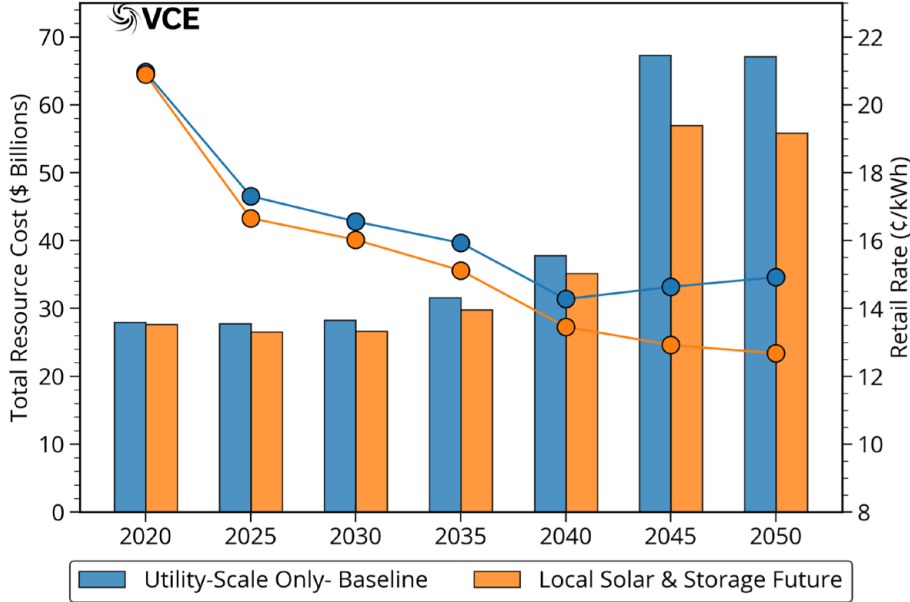
Reforms to Contain Utility Costs and Rate Growth

February 28, 2022

Retail Electricity Spending in High Electrification Future



Rate Reduction from Electrification and DER Optimization



SCE 2019 Recorded Capital Expenditures (\$,000)

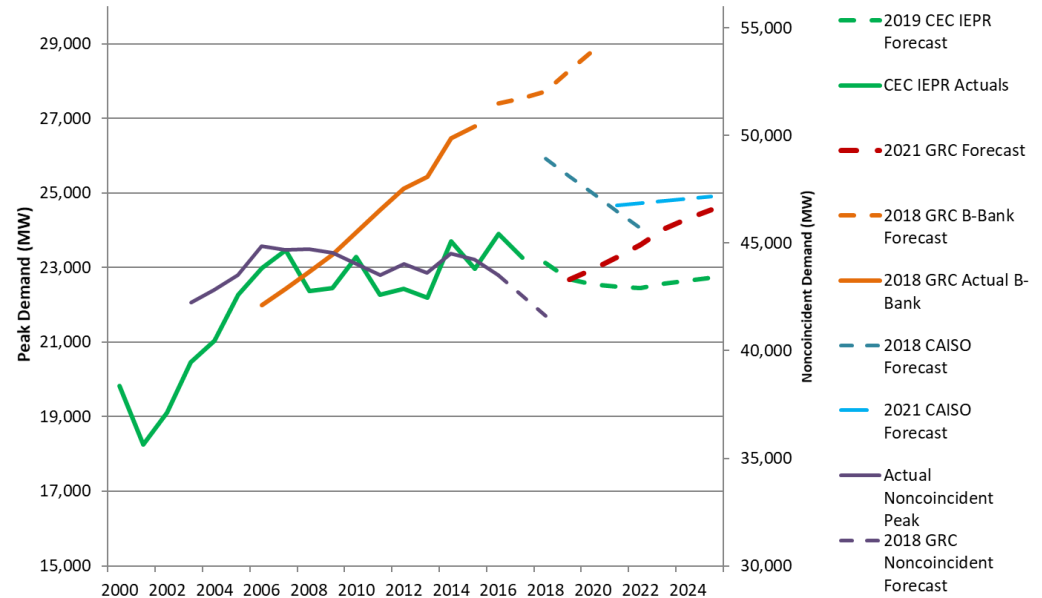
Grand Total	4,573,591
Generation	90,865
System Augmentation - Grid Modernization, Grid Technology, and Energy Storage	131,078
System Augmentation - Load Growth, Transmission Projects, and Engineering	1,101,147
System Augmentation - New Service Connections and Cust. Requested System Mod	360,135
Total System Augmentation	1,800,360
Wildfire Management	649,079
Poles Replacement	389,827
Total Wildfire Management & Poles Replacement	1,038,906
Distribution Infrastructure Replacement & Maintenance	537,070
Substation Maintenance	65,438
Total Maintenance	602,508

Spending Based on Incorrect Load Forecasts

SCE's and PG&E's load forecasts are biased above recorded sales, leading to overinvestment in distribution systems.

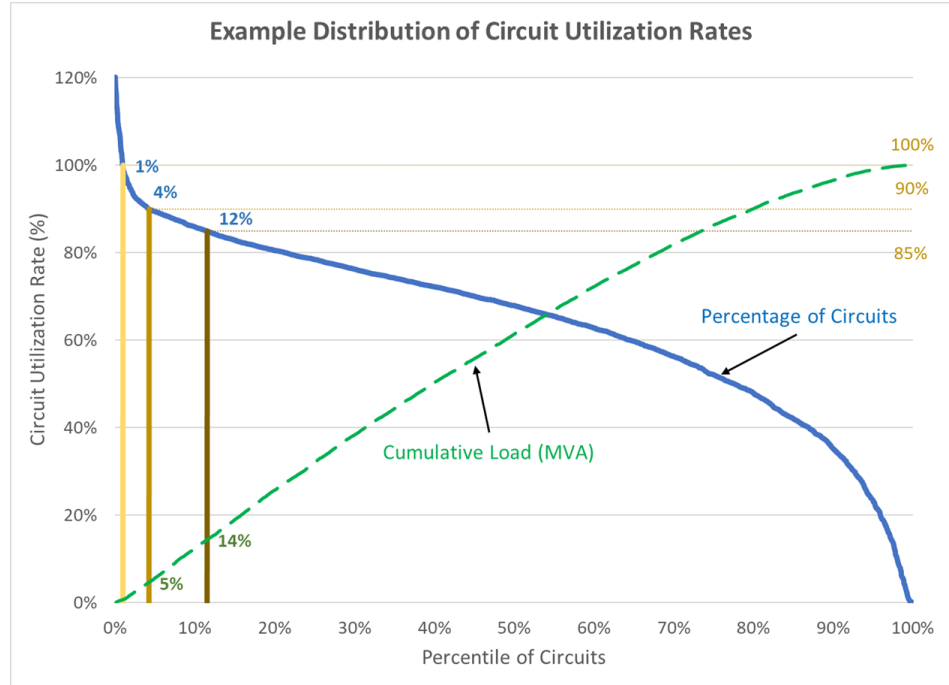
SCE's forecasts are not consistent with CEC or CAISO, or even its own internal data.

Comparison of SCE GRC, CEC and CAISO Load Forecasts

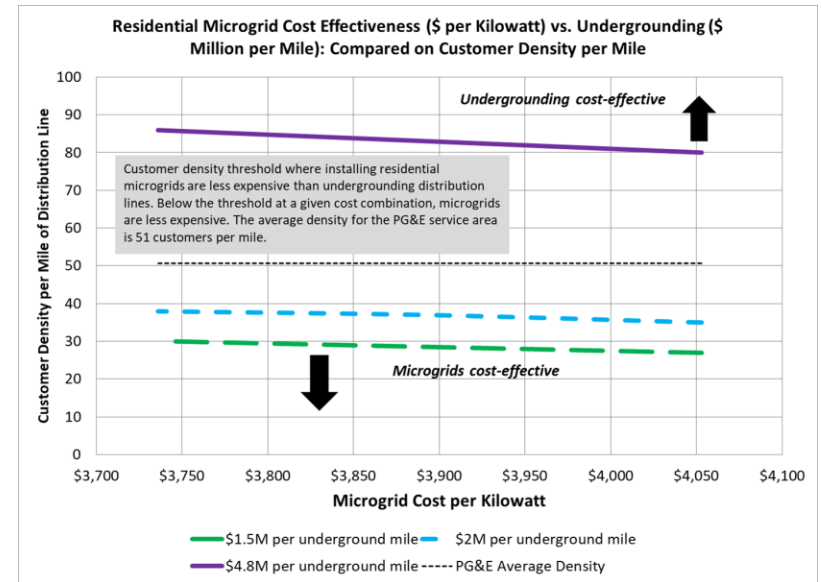
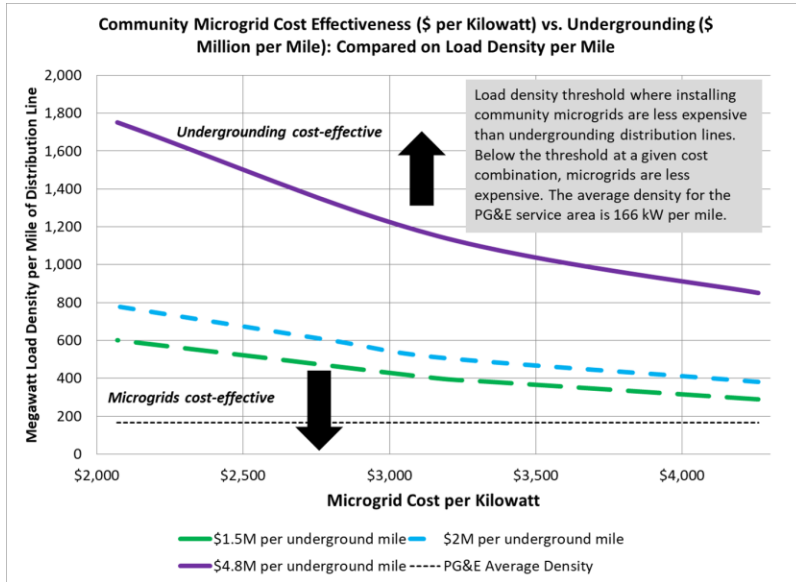


Targeting Overloaded Distribution Circuits

- As an example, SCE invested \$1.1 billion in “growth” in 2019, but SCE load is not growing (nor are PG&E’s or SDG&E’s).
- Distribution deferral solicitations have not been successful because upgrades are already planned and the time window for solicitations is too narrow. A targeted dispatch framework could be prepared for circuit overload.



Microgrids Can Be Cheaper Than Undergrounding



Recommendations

- Conduct a comprehensive independent audit of previous distribution system spending
- Implement real time pricing rates
 - Full rate development in current GRCs and SDG&E RDW
- Create targeted energy dispatch (TED) programs
 - Event based program targeting circuit peaks
 - Managed by IOUs; not integrated with CAISO
- Systematically review alternatives to undergrounding

Thank You



Brad Heavner
Policy Director
California Solar & Storage Association
brad@calssa.org