

CALFLEXHUB SYMPOSIUM

SEPTEMBER 24 | 8am-6pm PT



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AUTOMATING THE EDGE: UNLOCKING THE POTENTIAL OF LARGE BUILDINGS

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Jonathan Schoenfeld, Director of Energy Analytics, Infogrid

Terry Holtz, Senior Product Manager, Uplight



2024



Automating the edge: Unlocking the potential of large buildings

Cal Flexhub Symposium
September 24, 2024

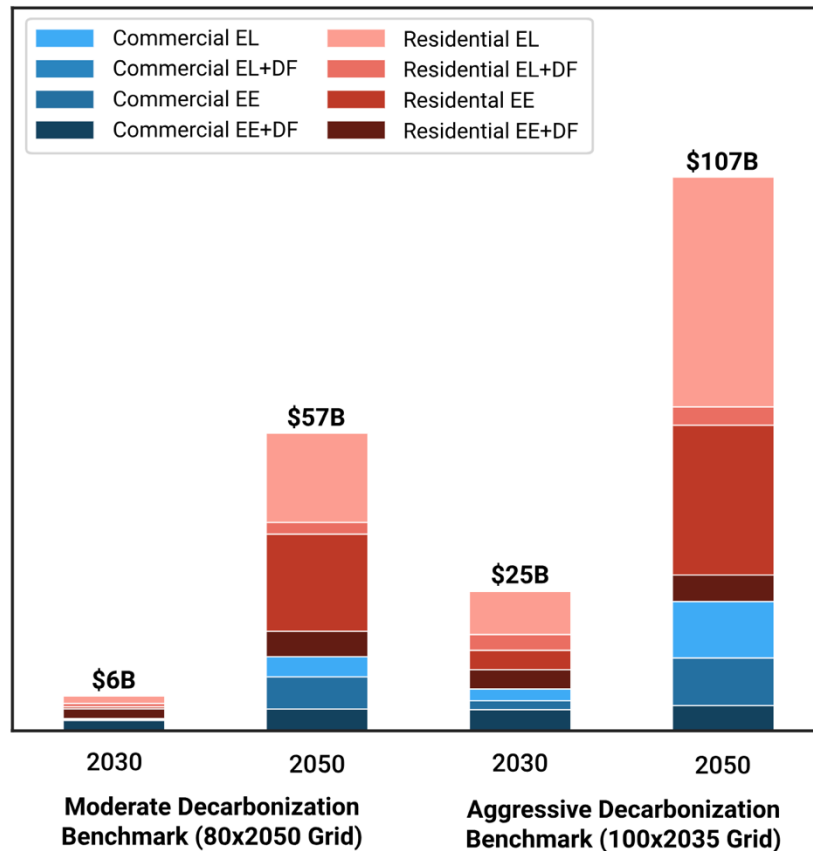
Jessica Granderson
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ENERGY TECHNOLOGIES AREA
BERKELEY LAB

Demand-side flexibility is critical to a reliable, affordable clean grid

National Power System Cost Savings
by Measure and Customer Type

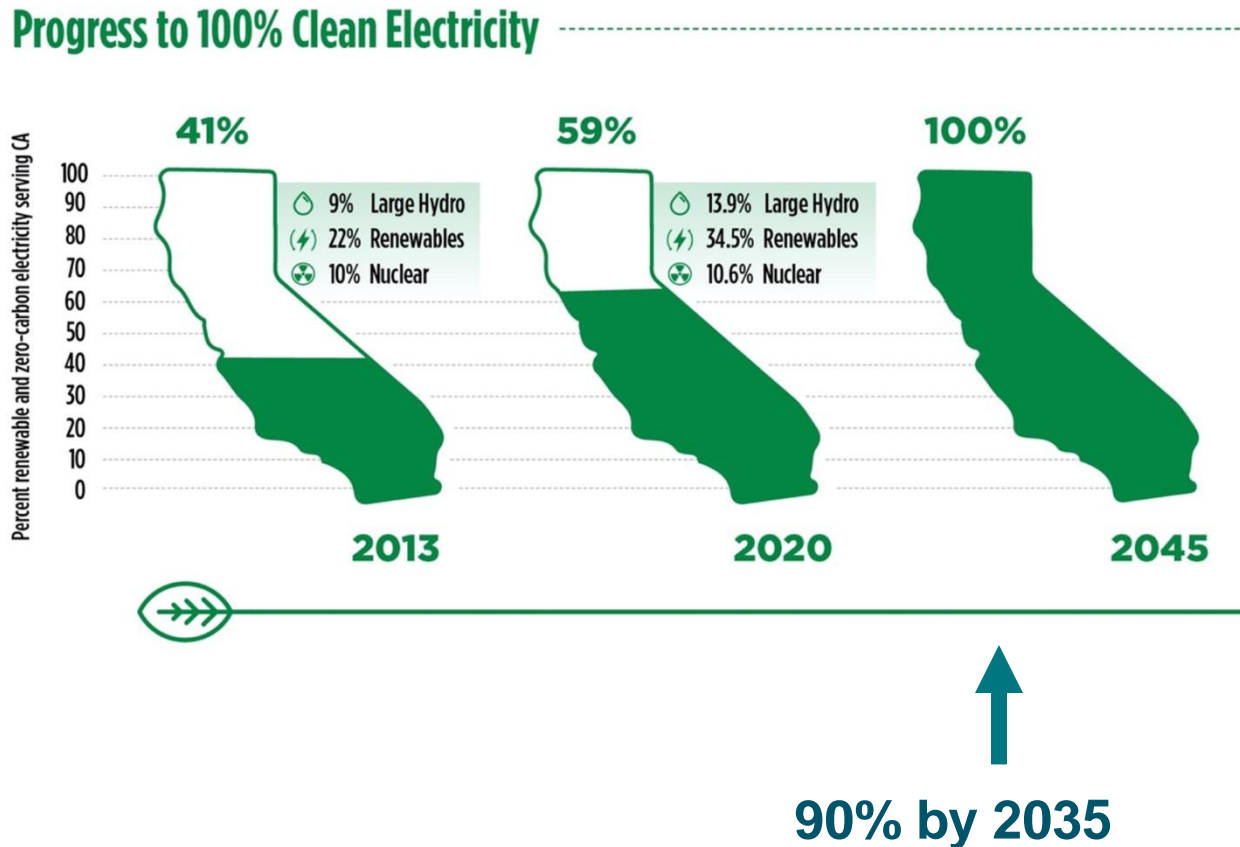


>100B in avoided bulk system investments nationally by 2050

Not accounting for distribution level benefits

buildings2050.lbl.gov

CA has paired its clean grid goals with a load shifting goal



7 GW

Load shift by 2030

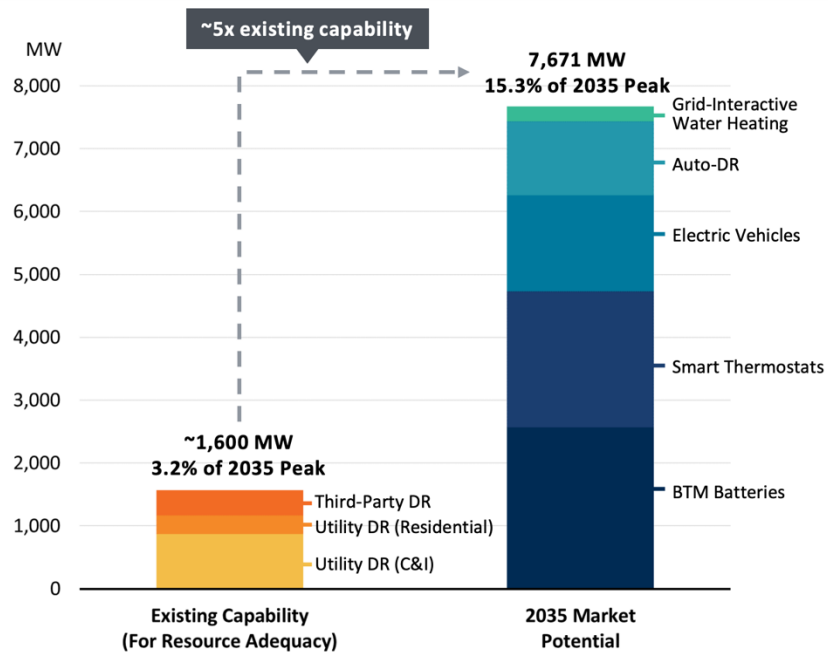
4 GW

Resource adequacy
+ incr. and emergency

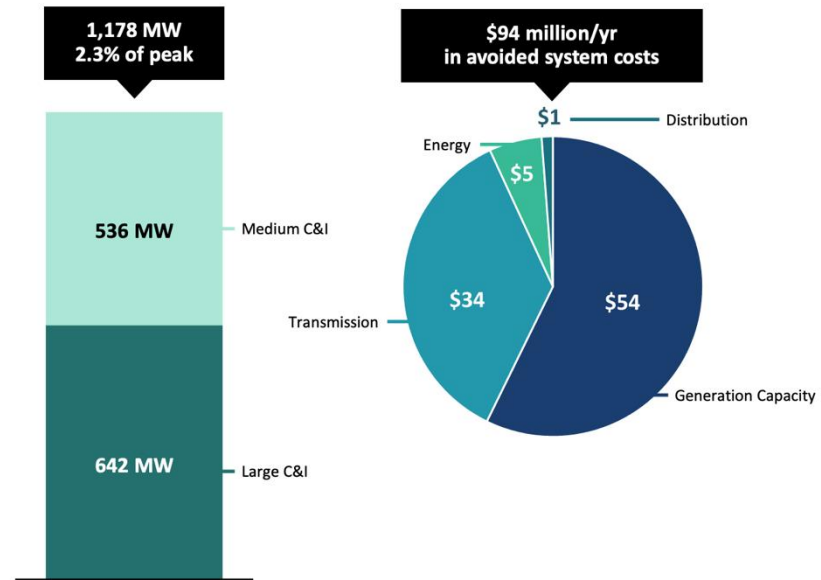
3 GW

Load modifying, e.g. TOU,
dynamic rates

Brattle shows >7.5 GW of cost-effective potential by 2035 with significant portion from C&I



2035 Statewide Auto-DR VPP Potential



NOTE: VPP capacity is presented as a percentage of maximum system peak demand during the resource adequacy window of 6 to 11 p.m. (March–July) and 5 to 10 p.m. (other months).

Changing grid will require more frequent and flexible control of end uses, increasing importance of automation
Narrowing window of opportunity to reap avoided cost benefits

PANEL DISCUSSION

