

FOR SDG&E'S MANAGED CHARGING REVIEW

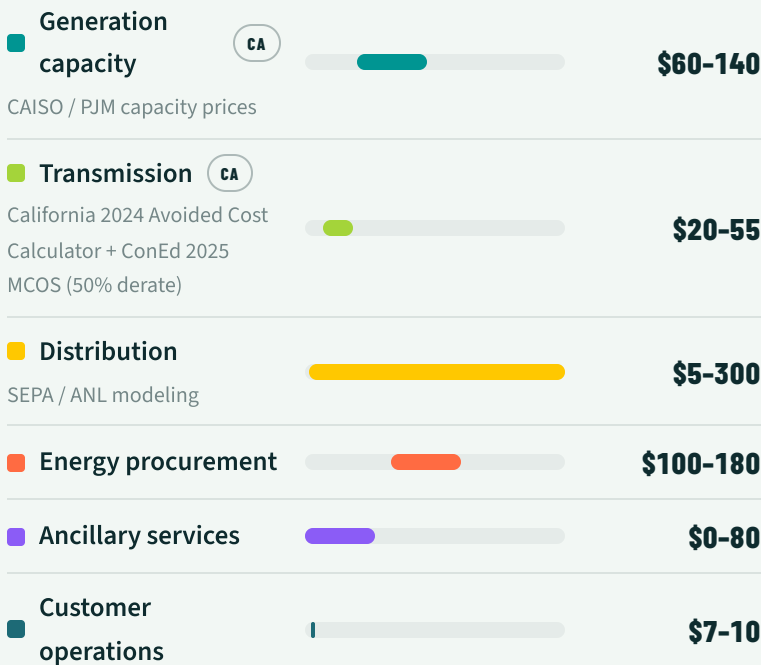
WHAT AN ACTIVELY MANAGED EV IS WORTH

— AND HOW WE'D SIZE IT FOR SDG&E

Managed charging represents a \$30 billion annual opportunity nationwide by 2035. The per-EV range below is an industry benchmark from our Cost-Avoidance Stack, built on public frameworks your planners already use. Sizing it precisely for SDG&E's territory is the first step of the pilot, the number we'd build together in the working session.

INDUSTRY-MODELLED VALUE PER ACTIVE MANAGED EV

\$145-\$575 / year



**TOTAL PER ACTIVE
MANAGED EV / YEAR**

\$145-\$575

Illustrative industry range; inputs blend California and national sources. SDG&E-specific figures to be modelled in Phase 1.

THE OPPORTUNITY AT CALIFORNIA SCALE

\$184M

a year in avoided system costs statewide by 2035, from managed EV charging (residential, load-shifting only, before any V2G).

RESULTS FROM CALIFORNIA PROGRAMS

98% **ChargeWise California:** of charging shifted off-peak, compared with 60-70% on a standard time-of-use rate.

95% peak-period load reduction (ev.energy with Recurve and MCE); **90%** shifted to low-carbon midday (ev.energy with SVCE).

DESIGNING THE PILOT TO SCALE

- Treat the pilot as **Phase 1 of a proven path to a Non-Wires Alternative:** business case → targeted pilot → scale into a formal NWA.
- The same data and the same audit trail carry through every stage, nothing is rebuilt or set aside as the program grows.
- Independent analysis notes that successful pilots too often stop at the pilot stage. A defined path to scale from the outset avoids that.

SOURCES Value stack: ev.energy's Cost-Avoidance Stack, with research support from The Brattle Group. · \$184M statewide and pilot-to-scale analysis: The Brattle Group for GridLab, California's Virtual Power Potential, 2024.