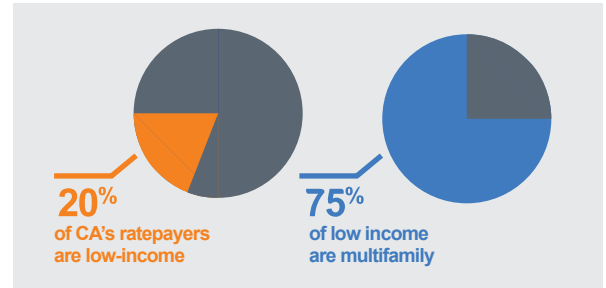


# ENABLING CLEAN ENERGY IN DISADVANTAGED COMMUNITIES WITH INTEGRATED PV + STORAGE

## OPPORTUNITY

Can an alternate business model manage grid users effectively and support overall grid health?



## TECHNOLOGY

What is the technology?

- 2 60 kW EnerPort battery cells
- 2 60 kW bifacial solar PV arrays
- DC-coupled PV and storage system
- 3 port AC/DC Inverter
- Local controller coordinating PV, battery, and inverter
- Cloud-based multi-level controls integration
- Community sharing VNEM model
- Common area lighting and air conditioning DC loads, coupled with the battery system

## APPROACH

What was the evaluation approach?

### ANALYZED METRICS

- Battery and PV Functionality
- Time of Use Utility Rates
- PQ Implications
- Energy Utilization pre- vs post-treatment
- Load Shed DR Performance
- Multiple Battery Control Scenarios

## FINDINGS

What were the major findings?

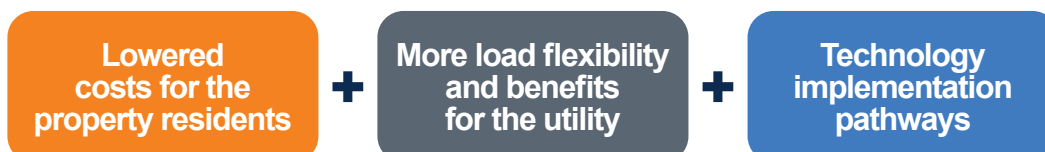
EPRI collected data at 1-second, 1-minute, or 15-minute intervals.

**\$253 MILLION**  
IN BILL REDUCTION  
POTENTIAL  
IF EXTENDED TO CALIFORNIA'S LOW-INCOME HOUSEHOLDS



## CONCLUSIONS

What were the major conclusions from the study?



The demonstration also offered lessons learned for more effective project, program, and policy targeting the low-income multifamily sector