Exhibit to Agenda Item #3a

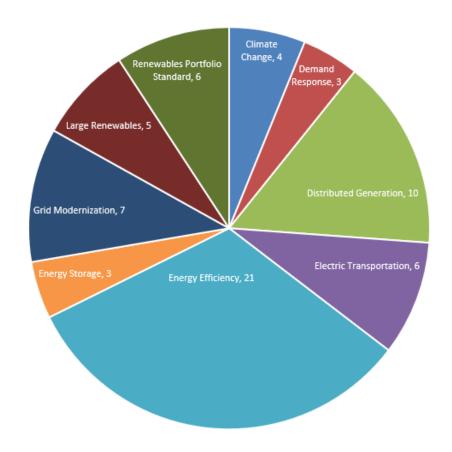
Board Policy Committee and Special SMUD Board of Directors Meeting Wednesday, September 19, 2018, scheduled to begin at 5:30 p.m. Customer Service Center, Rubicon Room



SD-10 Research & Development

ESR&D Total Projects: 65

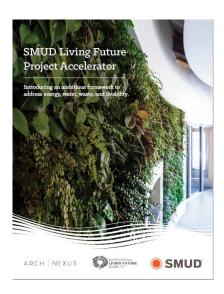
To assure SMUD's long-term competitiveness and its ability to deliver innovative products and services, SMUD shall invest in research and development projects that support its core and key values, based on an analysis of the projects relative risks and their potential benefits to SMUD customers.

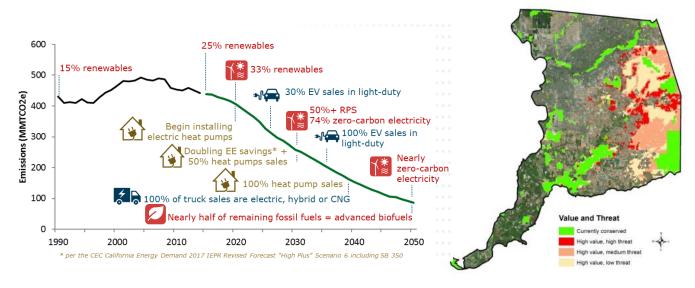




Climate Change

- SMUD Living Future Project Accelerator supporting All-Electric policies
- E3 Pathways & Scenario Analysis of accelerated carbon reduction targets for IRP
- Landscape Carbon Storage Assessment Completed







Demand Response & Storage

- GridRabbit Demo
- Modeling of TES dispatchStem Energy StorageAB 2514 Program Launch







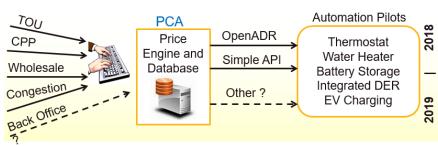
Policy Committee and Special SMUD Board of Directors Meeting

Electric Transportation & Grid Modernization

- School Buses
- EV Charging Strategies for Fleets and Workplace Programs
- Uber-SMUD EV Champion's Initiative



- 69 kV line sensors
- Development of Price Communication Application to automate DER response to changing prices



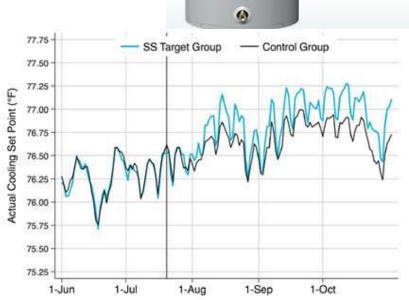


Energy Efficiency

- Cannabis
- Circadian Lighting
- Optimization for TOD
 - Heat pump water heaters
 - Smart thermostats









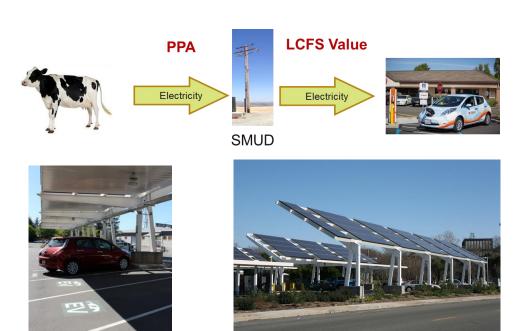
Delivered at

Thermostatic mixing valve

Stored up to

Renewables & Distributed Generation

- LCFS Cow Power to EV Charging Pathway
- PV Carport Feasibility Study
- Renewable Natural Gas from Biomass







Request the Board accept the SD-10 Monitoring Report.

