

Exhibit to Agenda Item #1

Board Strategic Development Committee and Special SMUD Board of
Directors Meeting

Tuesday, August 10, 2020, scheduled to begin at 5:30 p.m.

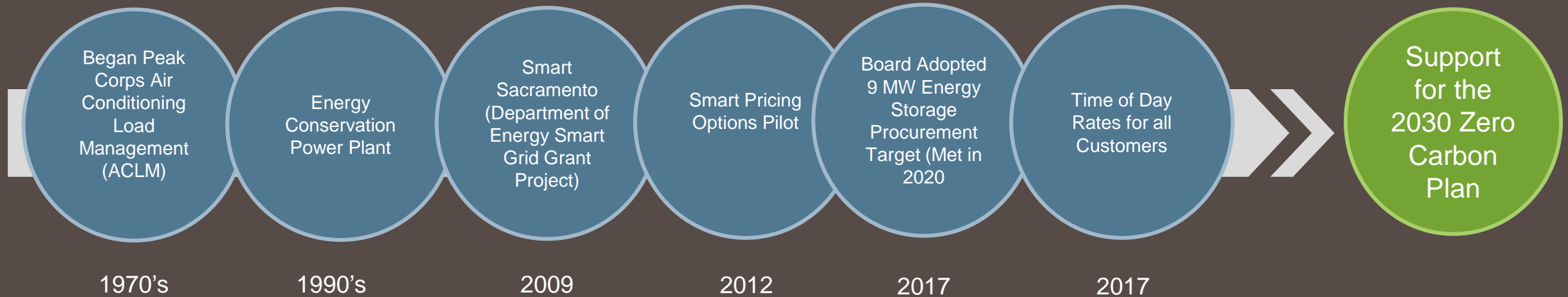
Virtual Meeting (online)

Powering forward.
Together.



Public comment may be submitted via e-mail to PublicComment@smud.org.

Long History of Load Flexibility at SMUD



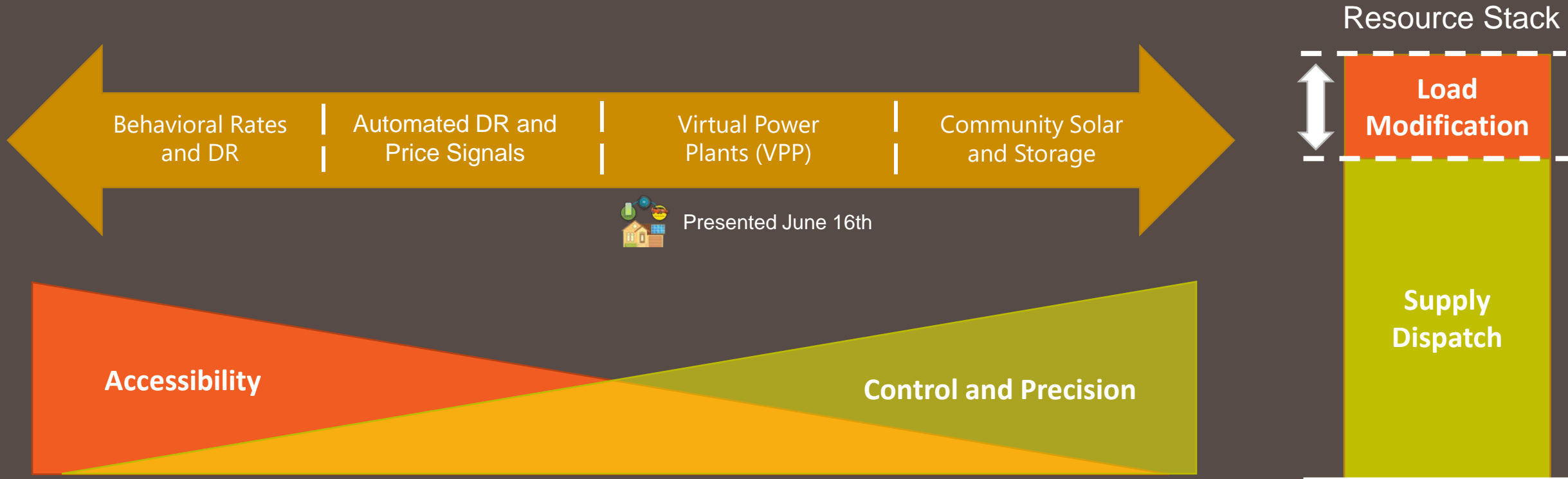
Strategic Approach



- Programs, technology and customer education that improve everyday energy use.
- Targeted load reduction to support the grid on high demand days such as during a heat wave.
- Highly responsive solutions that support the integration of additional intermittent renewable energy supplies such as wind and solar.

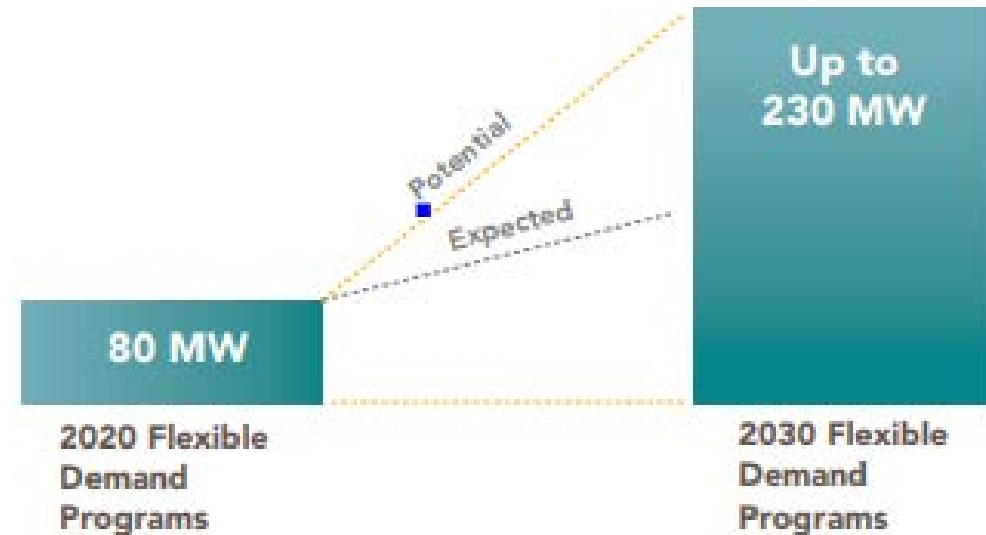
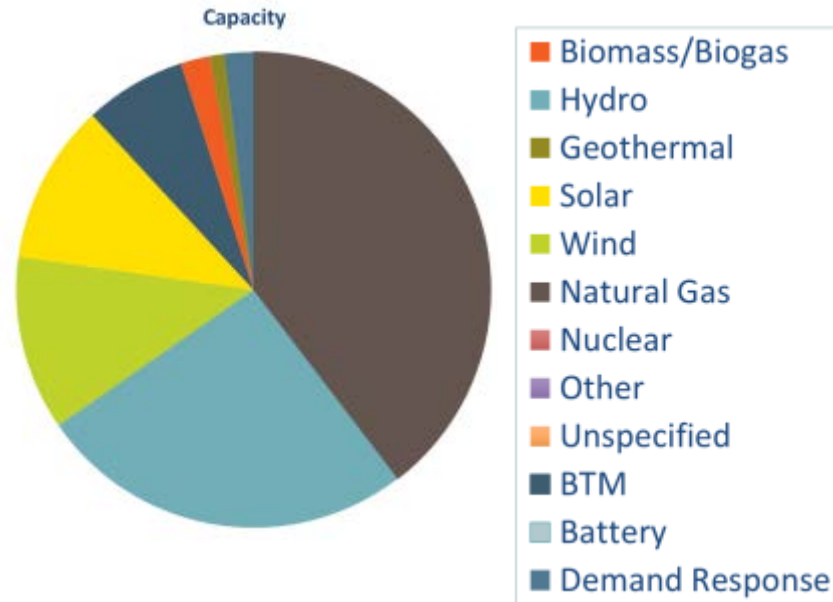


Load Flexibility Spectrum



The Zero Carbon Plan Relies on Load Flexibility

Figure 3. Capacity and energy of resources in the SMUD portfolio (current data)³⁵

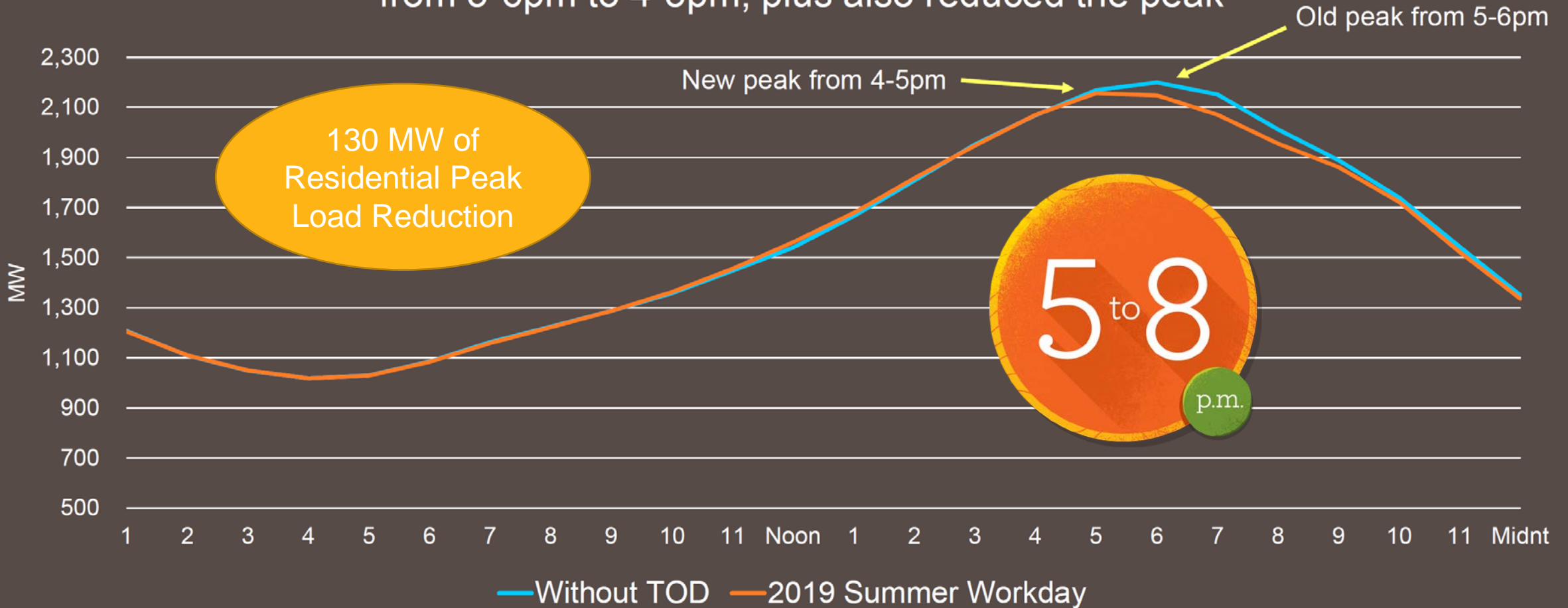


Source: <https://www.smud.org/-/media/Documents/Corporate/Environmental-Leadership/ZeroCarbon/2030-Zero-Carbon-Plan-Technical-Report.ashx>

Recap of Time-Of-Day Impact

With TOD, Customers moved the system peak from 5-6pm to 4-5pm, plus also reduced the peak

98% of Customers Are on Time-of-Day Rates



Load Flexibility Offerings and Initiatives

	Name	Primary Technology	Capacity (MW)	Resource Type
ZCP	Behavioral Demand Response	Customer Notification	2	Load Modification
	Time of Day Rates	Residential Loads	130	
	PowerMinder	Water Heater	0.50	Supply Dispatch
	Smart Energy Optimizer	Energy Storage	0.75	
	Curtailment Agreement	Industrial Plant	6.5	
	PowerDirect	Commercial Lighting, HVAC	12.8	
	Temperature Dependent Rate	Industrial Plant	15.5	
ZCP	Storage Virtual Power Plant	Battery	25	
ZCP	Multi-DER	Thermostat, Battery, EV	30+	
	Peak Corps	Air Conditioner	59	

Customers Can Provide Reliable, Scalable, Load Flexibility



Questions?