

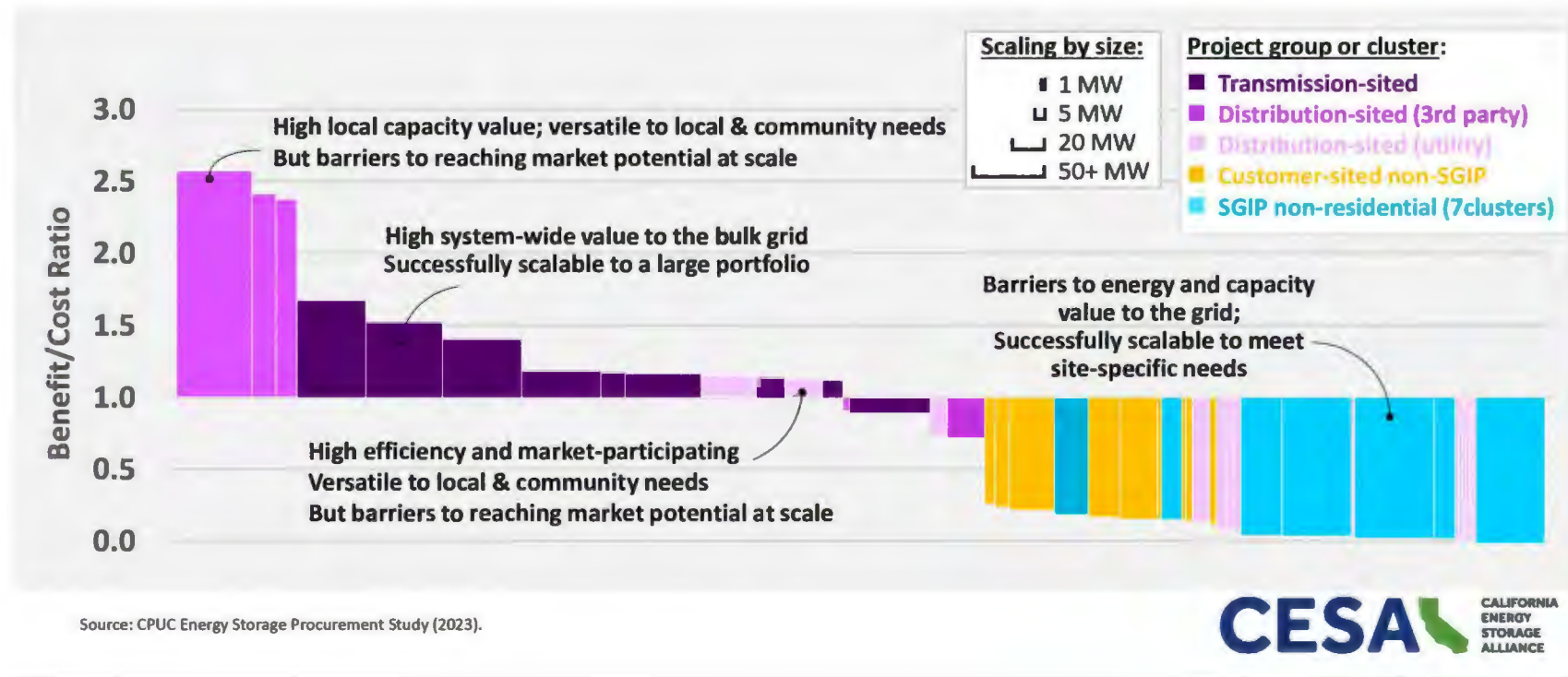
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Distributed Energy Storage Solutions



Distribution Connected FTM Storage Assessed High Cost/Benefit in CA

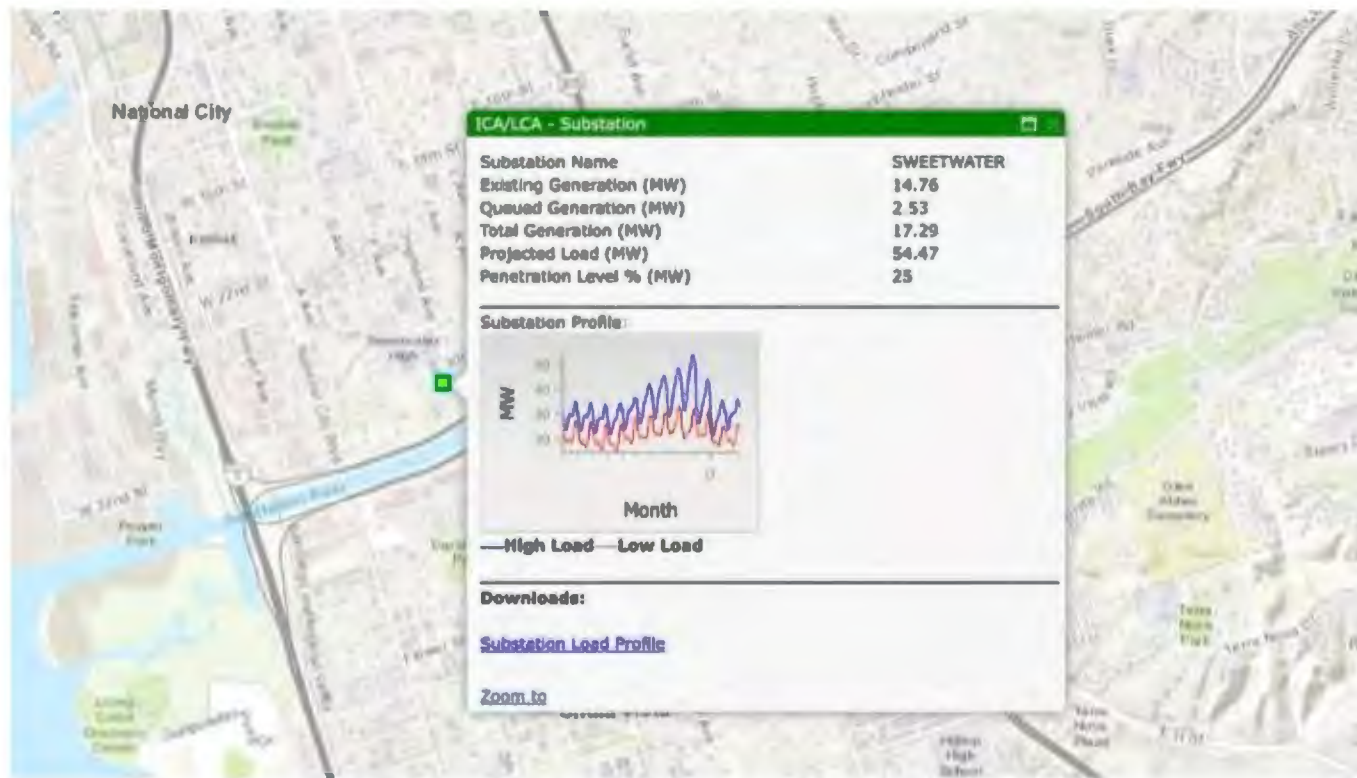


Distribution Infrastructure Benefits Face Barriers in CA

Distribution deferral services can scale up, but face challenges



Existing DG Interconnection Studies Confirm FTM DER Local Peak Reduction

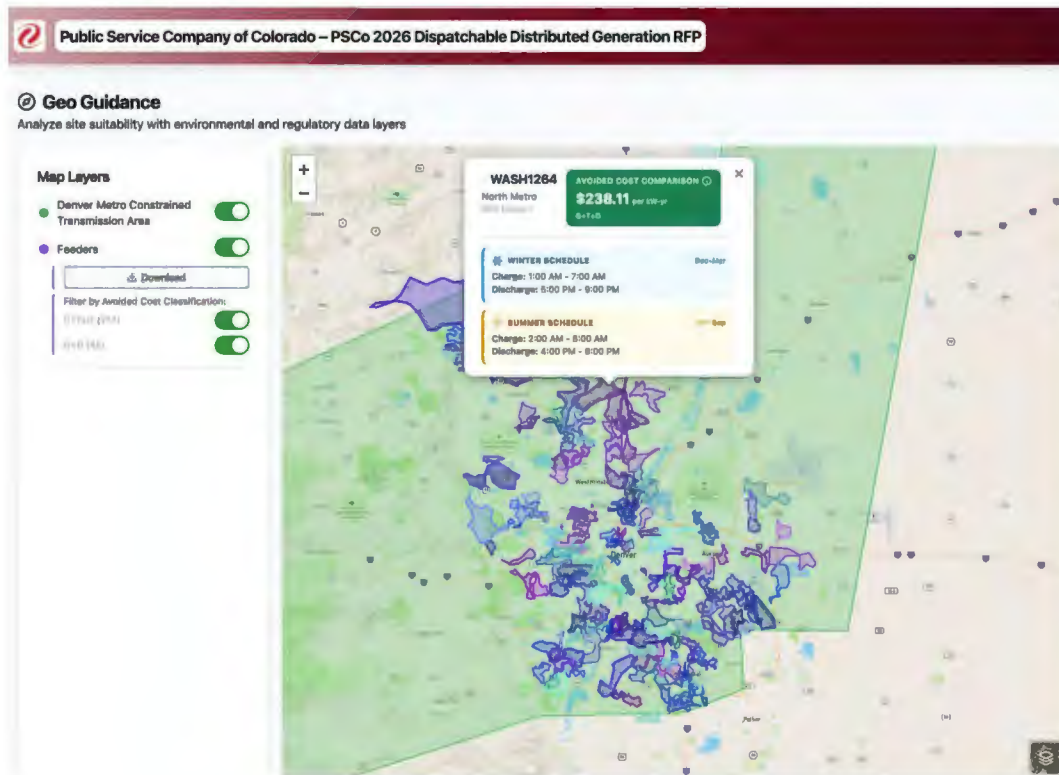


WDAT IX Notes

- IOUs publish line and substation equipment ratings and load profiles
- Projects studied using project injection capacity and impacts to local distribution grid loading
- Projects that backfeed to transmission will fail WDAT studies and must enter cluster
- Projects that pass WDAT are confirmed to reduce local net peak and do not backfeed to transmission



Colorado Dispatchable Distributed Generation Program



Summary

- Xcel Colorado seeking 150+ MW of 1-3MW energy storage systems
- Distribution-connected, front-of-meter
- Avoided cost by location and feeder:
 - G+T+D = **\$238.11 kW-yr**
 - G+D = **\$216.44 kW-yr**
 - G+T = **\$173.37 kW-yr**
 - G = **\$151.70 kW-yr**
 - Denver metro area given priority
 - Individual feeders mapped, with 'capacity constrained' feeders given highest priority and value
- Dispatch schedule defined per-feeder
 - Charge 1 AM – 7 AM
 - Discharge 5 PM – 9 PM



Minnesota Distributed Capacity Procurement

Figure 1: Conceptual C*C Roadmap



Table 3: C*C CBA Assumptions Summary

	CBA Assumptions
Benefits	
Avoided Energy/Energy Revenue Value	Average of locational marginal price (LMP) per MWh from the MISO Minnesota Hub Day-Ahead forecast and marginal energy price (MEP) per MWh from the 2024 Resource Plan
Capacity/Resource Adequacy	MISO Cost of New Entry (CONE) × BESS Effective Load Carrying Capability (ELCC) CONE price escalated at 3.81%
Avoided Distribution Benefit	\$40/kW-yr Applicable to 50% of projects
Avoided Transmission Benefit	\$30/kW-yr (\$250/kW annualized; 12% carrying charge)
Avoided Line Losses	6.47%

Eddy Positioning

- Xcel Minnesota 200-1GW of 1-3MW energy storage systems
- Distribution-connected, front-of-meter
- Targeting Feeders:
 - Adequate hosting capacity
 - Load growth
 - Peak aligned with system peak
 - Equity considerations
- System Benefits Quantified
 - LMP value: market pricing
 - RA: $CONE * ELCC$
 - Avoided Distribution Benefit: \$40/kw-yr
 - Avoided Transmission Benefit: \$30/kw-yr
 - Avoided Line Losses: 6.47%
- Dispatch performed by DERMS

