

Example Aggregated Distributed Energy Resources and Virtual Power Plant Programs

State	Utility	Program	Compensation	Call Window
Arizona ¹	Arizona Public Service (APS)	Residential Energy Storage Pilot	This pilot provided a one-time \$500/kW payment up to \$2,500 per home. Participants that permitted APS to discharge their battery were eligible for an additional \$1,250 per home, for a total incentive of up to \$3,750. 3-year program commitment. <i>*Pilot program capacity filled and closed as of January 2023.</i> ²	1-4 hours; 6-9 PM (non-holiday weekdays) or 9 AM – 9 PM (weekends/holidays), Up to 100 times per year
California ³	Pacific Gas & Electric, Southern CA Edison, San Diego Gas & Electric	Distribution Investment and Deferral Framework Partnership Pilot	Tiered payment structure based on value of distribution infrastructure avoided or deferred by use of BTM DERs.	Variable
California ⁴	Pacific Gas & Electric, Southern CA Edison, San Diego Gas & Electric	Emergency Load Reduction Program (ELRP)	For every kWh of voluntary load reduction during an ELRP event: <ul style="list-style-type: none"> - Residential: \$1/kWh - Non-residential: \$2/kWh 	1-5 hours between 4-9 PM; May to October. Up to 60 hours per year.

¹ Arizona Public Service Commission, Docket No. E-01345A-19-0148, Decision No. 77762, p. 7 (Oct. 2, 2020); Docket No. E-01345A-20-0151, Decision No. 78164, pp. 7-8, 26 (July 28, 2021). *See also*, <https://www.chargingrewards.com/apsbattery/>.

² APS’s pending 2024 DSM Plan (filed November 30, 2023 in Docket [E-01345A-23-0088](#)) requests approval to devote \$1,611,870 to expand and extend the Residential Battery Pilot. If approved, customers with newly installed batteries who permit APS to discharge their battery during on-peak periods for three years will be eligible for an incentive of \$500/kW up to a maximum of \$3,750. The new battery tranche is expected to support 250 new batteries.

³ *See*, Pacific Gas & Electric, Distribution Investment and Deferral Framework Partnership Pilot, *available at* <https://www.pge.com/en/about/doing-business-with-pge/wholesale-electric-power-procurement/distribution-investment-deferral-framework-partnership-pilot.html>; *see also* California Public Utilities Commission, Decision (D.) 21-02-006 (Feb. 11, 2021) *available at* <https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M365/K628/365628213.PDF>.

⁴ California Public Utilities Commission, Emergency Load Reduction Program, *available at* <https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/electric-costs/demand-response-dr/emergency-load-reduction-program>. *See also*, Pacific Gas & Electric, Emergency Load Reduction Program, *available at* <https://elrp.olivineinc.com>.

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California ⁵	Pacific Gas & Electric, Southern CA Edison, San Diego Gas & Electric	Demand Side Grid Support Program	<p><u>Option 1 - Standby & Energy Payment</u> \$2/kWh of verified incremental load reduction provided during a dispatch period + \$0.25/kWh standby payment for each hour or portion thereof in which the committed load reduction during the standby period is not dispatched.</p> <p><u>Option 2 - Incremental Market-Integrated DR Capacity Pilot</u> Payments for incremental DR capacity are based on demonstrated capacity in excess of RA capacity commitments, where capacity commitments are defined as the maximum monthly sum of a DR provider’s Proxy Demand Response (PDR) capacity across the month-ahead RA showings of an LSE. The DSGS incremental DR capacity prices offered are: \$9/kW (May), \$9.30/kW (June), \$16.80/kW (July), \$18/kW (Aug.), \$19.20/kW (Sept.), and \$10.50/kW (Oct.).</p> <p><u>Option 3 - Market-Aware BTM Storage Pilot</u> This option allows third-party battery providers, POUs, and CCAs to serve as BTM VPP aggregators. To be eligible as a VPP, each individual customer site must have a battery capable of discharging at least 1 kW for 2 hours, provide no more than 1,000 kW during any event hour, have PTO from the host utility, and not participate in the CAISO PDR or RDRR programs unless the customer's baseline reflects total gross consumption. Compensation amounts are varied by month and by the duration of the dispatch window for 2-, 3-, and 4-hour durations. The monthly 4-hour duration amounts match the amounts for Option 2 above, while the 3-hour rates are set at 90% of the 4-hour rates and the 2-hour rates are set at 75% of the 4-hour rates.</p>	<p>May - October (7 days a week).</p> <p>Option 1 - Dispatch events 1-5 hours.</p> <p>Option 2 - The resource must bid or self-schedule for at least 3 consecutive hours between 4 - 10 PM.</p> <p>Option 3 - Resources must be available daily from 4 - 9 PM during a dispatch window from 2 – 4 hours for up to 35 events per year.</p>

⁵ California Energy Commission, Demand Side Grid Support (DSGS) Program Guidelines - Fourth Edition (April 2024), available at [Demand Side Grid Support \(DSGS\) Program Guidelines, Fourth Edition | California Energy Commission](#).

State	Utility	Program	Compensation	Call Window
California ⁶	SMUD	My Energy Optimizer Program	One-time incentive of up to \$2,500 paid after interconnection and program enrollment. The program levels have ongoing performance payments for allowing SMUD to dispatch the battery during peak events: \$150/kWh up to \$1,500 for the Partner level and \$250/kWh up to \$2,500 for the Partner+ level.	<p><u>Partner Level</u> Summer months only; peak period window & duration undefined.</p> <p><u>Partner+ Level</u> Year-round, peak period window & duration undefined.</p>
Colorado ⁷	Xcel	Battery Connect	\$500/kW, capped at 50% of overall battery equipment cost (non-income qualified) or \$800/kW, capped at 75% of overall battery equipment cost (income-qualified), as well as \$100/year for 5 years for participation. Up to 60 events year-round (24/7 excluding holiday and weather events). Batteries will always have a 40% backup reserve.	Year-round, Up to 3 hour dispatch duration; no specific window but generally afternoon and early evening.
Colorado ⁸	Xcel	Aggregator VPP Program	<p><u>Performance Payment:</u> \$238/kW (distribution constrained area), \$173/kW (non-distribution constrained areas)</p> <p><i>Pending PUC approval of Settlement Agreement, as filed on August 15, 2025. Updated compensation levels provided below.</i></p> <p><u>Performance Payment:</u> For the program's first year, compensation follows a tiered structure with 90% performance payments set at:</p> <ul style="list-style-type: none"> - \$151.70 per kW-year for generation - \$21.67 per kW-year for transmission - \$64.74 per kW-year for distribution (applies only to feeders and banks demonstrating June-September peak demand between 4 PM and 10 PM) 	Year round, target summer peak, up to 80 events per year

⁶ SMUD, Battery Storage for Homeowners, available at <https://www.smud.org/en/Going-Green/Battery-storage/Homeowner>.

⁷ Xcel Energy Colorado. Battery Connect, available at <https://co.my.xcelenergy.com/s/renewable/battery-connect>.

⁸ Colorado Public Utilities Commission, Docket Nos. 24A-0547E & 25A-0061E, [AVPP Program Settlement Agreement](#) (Aug. 15, 2025).

State	Utility	Program	Compensation	Call Window
			The Settlement implements a 2-to-1 performance reduction for outputs below 80% of expected levels. However, aggregators will receive full compensation for performance exceeding 100%. Compensation rates will adjust in the second year, with generation values tied to battery contract prices from Proceeding No. 21A-0141E and transmission values linked to credits established in Proceeding No. 24A-0442E. Once established at enrollment, compensation terms remain fixed for five years.	
Connecticut ⁹	Eversource	Connected Solutions – Targeted Seasonal	\$225/kW-summer (avg. per peak event), locked in for five years. <i>Stopped accepting new enrollments as of December 1, 2023. Existing customers will remain in the program until at least 2027.</i>	3 hours, between 3-8 PM, June 1 – Sept. 30, between 30-60 events per season.
Connecticut ¹⁰	Eversource UI	Energy Storage Solutions (ESS) Program for Homes	<u>Upfront Incentive (Step 1)</u> : \$250/kWh (Standard), \$450/kWh (Underserved), \$600/kWh (Low-Income) for 10-year commitment. Incentive is capped at 50% of total installed cost or \$16,000/project. <u>Performance Payment</u> : \$200/kW (summer) & \$25/kW (winter) for first 5 years and \$115/kW (summer) & \$15/kW (winter) for years 6-10, based on average kW-AC contribution during the season, determined by actual system performance during called events. <i>Draft Decision issued on 11/24/25.¹¹ The upfront incentive is replaced with a performance-based incentive model,</i>	<u>Passive Dispatch</u> : 5 hour uniform dispatch between 3-8 PM, all non-holiday weekdays from June 1 to August 31. Passive events are canceled on days in which an active event is called. <u>Active Dispatch</u> : 1-3 hours between 12-9 PM, June 1 - Sept. 30, 30-60 events per summer season. 1-3 hours between 12-9 PM, Nov. 1 - March 31,

⁹ Eversource, Connecticut Home Battery Storage Options, available at <https://www.eversource.com/content/residential/save-money-energy/clean-energy-options/energy-storage-solutions>.

¹⁰ Energy Storage Solutions - Contractor Resources, Program Manual (January 24, 2025), available at <https://energystoragect.com/contractor-resources/>.

¹¹ Proposed Final Decision issued in Docket 25-05-05, available at <https://www.dpuc.state.ct.us/DOCKCURR.NSF/8e6fc37a54110e3e852576190052b64d/2b98155ffb2aed3085258d4c00680439?OpenDocument>

State	Utility	Program	Compensation	Call Window
			<p><i>with a proposed effective date of April 1, 2026. The PFD is pending PURA approval.</i></p> <p><u>Performance-Based Incentive:</u> \$300/kWh (Standard), \$450/kWh (Underserved), \$550/kWh (Low-Income) for 10-year commitment.</p> <p><u>Enrollment Incentive:</u> Non-Grid Edge Residential: \$30/kWh; Grid Edge Residential: \$130/kW</p>	<p>1-5 events per winter season.</p> <p><i>The Draft Decision ends passive dispatch, effective April 1, 2026.</i></p>
Connecticut ¹²	Eversource UI	Energy Storage Solutions (ESS) Program for Businesses	<p><u>Upfront Incentive:</u> \$200/kWh (Small Commercial), \$175/kWh (Medium Commercial), \$100/kWh (Large Commercial) for 10-year commitment. Incentive is capped at 50% of total installed cost.</p> <p><u>Performance Payment:</u> \$200/kW (summer) & \$25/kW (winter) for first 5 years and \$115/kW (summer) & \$15/kW (winter) for years 6-10, based on average kW-AC contribution during the season, determined by actual system performance during called events.</p> <p><i>Draft Decision issued on 11/24/25.¹³ The upfront incentive is replaced with a performance-based incentive model, with a proposed effective date of April 1, 2026. The PFD is pending PURA approval.</i></p> <p><u>Performance-Based Incentive:</u> Small & Medium: \$325/kW-yr (Years 1–5); \$175/kW-yr (Years 6–10) Large: \$275/kW-yr (Years 1–5); \$175/kW-yr (Years 6–10)</p> <p><u>Enrollment Incentive:</u> Priority Commercial: \$10/kWh</p>	<p><u>Passive Dispatch:</u> 5 hour uniform dispatch between 3-8 PM, all non-holiday weekdays from June 1 to August 31. Passive events are canceled on days in which an active event is called.</p> <p><u>Active Dispatch:</u> 1-3 hours between 12-9 PM, June 1 - Sept. 30, 30-60 events per summer season.</p> <p>1-3 hours between 12-9 PM, Nov. 1 - March 31, 1-5 events per winter season.</p> <p><i>The Draft Decision ends passive dispatch, effective April 1, 2026.</i></p>

¹² *Id.*

¹³ Proposed Final Decision issued in Docket 25-05-05, available at <https://www.dpuc.state.ct.us/DOCKCURR.NSF/8e6fc37a54110e3e852576190052b64d/2b98155ffb2aed3085258d4c00680439?OpenDocument>

State	Utility	Program	Compensation	Call Window
Hawaii ¹⁴	Hawaiian Electric Companies	Scheduled Dispatch Program / Battery Bonus Program	<p>40 MW cap on Oahu and 15 MW cap on Maui. Upfront payment of \$850/kW of committed capacity.</p> <p>Monthly bill credit of \$5/kW for 10 years. Non-NEM customers receive a fixed bill credit equivalent to the retail rate for electricity exported during the two-hour dispatch period. Allows additional solar installation of up to twice the capacity of the participating battery.</p> <p><i>Stopped accepting new enrollments for Oahu residents as of December 1, 2023. Maui residents will be able to enroll until program enrollment reaches 15 MW or until June 30, 2024, whichever comes first.</i></p>	Daily 2-hour dispatch, as determined by utility, during the daily peak window of 6:00 - 8:30 PM.
Hawaii ¹⁵	Hawaiian Electric Companies	Bring Your Own Device Plus	<p>BYOD Plus: Scheduled Capacity Load Reduction Service.</p> <p>Program commitment of 5 years. Compensation consisting of an upfront payment of \$400 / kW for non-LMI customers and \$800 / kW for LMI customers</p>	Daily 2-hour dispatch during a window selected by the customer from options provided by the utility during the evening peak.
Massachusetts ¹⁶	Eversource, National Grid, Cape Light Compact	Connected Solutions – Residential	\$275/kW-summer, locked in for five years.	2-3 hours, between 3-8 PM, June 1 – Sept. 30, between 30-60 events per season.
Massachusetts ¹⁷	Eversource, National Grid, Cape Light Compact	Connected Solutions – Daily Dispatch (Commercial)	\$200/kW for dispatch on a daily basis (summer only), locked in for five years.	2-3 hours, between 3-8 PM any day, June 1 – Sept. 30, 30-60 events per season.

¹⁴ Hawaiian Electric Company, Customer Renewable Programs – Battery Bonus, *available at* <https://www.hawaiianelectric.com/products-and-services/customer-renewable-programs/rooftop-solar/battery-bonus>.

¹⁵ Hawaii Public Utilities Commission, Docket No. 2019-0323, Decision and Order No. 41616 (Mar. 21, 2025).

¹⁶ Mass Save. Program Materials for Connected Solutions for Small Scale Batteries (May 4, 2023), *available at* <https://www.masssave.com/en/residential/rebates-and-incentives/connectedsolutions-batteries>.

¹⁷ Mass Save. Offering Materials for Connected Solutions for Commercial / Industrial Customers (June 8, 2023), *available at* <https://www.masssave.com/en/business/programs-and-services/commercialconnectedsolutions>.

State	Utility	Program	Compensation	Call Window
Massachusetts ¹⁸	Eversource, National Grid, Cape Light Compact, Unitil	Connected Solutions – Targeted Dispatch (Commercial)	\$35/kW-summer. Extra \$10/kW-summer for weekend events.	3 hours, between 3-8 PM any day, June 1 – Sept. 30, 1-8 events per season.
New Hampshire ¹⁹	Unitil	Connected Solutions – Targeted Dispatch Pilot (Commercial)	\$35/kW-summer	3 hours, between 2-7 PM weekdays, June 1 – Sept. 30, 1-8 events per season
New Hampshire ²⁰	Eversource	Connected Solutions (Residential)	One-time rebate based on 80% of the kWh discharge capacity of the battery. For each eligible kWh, the incentive is set at \$275/kWh, up to \$3,000. The system must participate in the demand response program for three years.	Between 3-8 PM, June 1 – Sept. 30.
New York ²¹	Consolidated Edison NY	Commercial Demand Response Programs	\$/kW-month capacity reservation payment (May – September) differentiated by location & number of event calls per peak season. Rates may change annually. Minor \$/kWh payment during events.	4+ hours, call windows updated annually and are location dependent, May 1 – Sept. 30.
New York ^{22, 23}	PSEG LI	Commercial System Relief Program and Distribution Load Relief Program	\$8/kW per monthly capacity reservation payment and \$0.25/kWh	Up to 4 hours on weekdays, May 1 - Sept. 30 (CSRP) 4-6 hours, May 1 - Sept. 30. Load relief is not required between 12-6 AM. (DLRP)

¹⁸ *Id.*

¹⁹ Unitil, Program Materials for Connected Solutions for Commercial/Industrial Customers (April 7,2022), Appendix A, available at https://unitil.com/sites/default/files/2022-04/CI-DemandResponse-ProgramMaterials-Unitil-FINAL-04-04-2022_0.pdf.

²⁰ Eversource, Demand Response for Home Battery Storage, available at <https://www.eversource.com/content/residential/save-money-energy/energy-efficiency-programs/demand-response/battery-storage-demand-response>.

²¹ Consolidated Edison New York. Schedule for Electric Delivery Service, Rider T, available at <https://lite.coned.com/external/cerates/elec.asp> and Demand Response (Rider T) Program Guidelines (Dec. 1, 2023), available at <https://www.coned.com/-/media/files/coned/documents/save-energy-money/rebates-incentives-tax-credits/smart-usage-rewards/smart-usage-program-guidelines.pdf?la=en#:~:text=The%20Commercial%20System%20Relief%20Program,their%20respective%20assigned%20call%20window.&text=CSRP%20Unplanned%20Event%2C%20and%20participation%20is%20voluntary>.

²² PSEG LI, Commercial System Relief, [System Peak Relief Program - PSEG Long Island](#) .

²³ Long Island Power Authority, Electric Tariff, pp. 470-496, available at <https://www.lipower.org/about-us/tariff/>.

State	Utility	Program	Compensation	Call Window
			performance payment for load relief. ^{24,25}	
North Carolina ²⁶	Duke Energy	Powerpair Solar & Battery Storage Pilot	Upfront incentives of \$0.36/W-AC for solar (limited to 10 kW-AC) and \$400/kWh for battery storage capacity (limited to 13.5 kWh). A separate battery control incentive of \$4.61/kW-month is applied to customers that allow Duke to dispatch their battery capacity. 10-year participation requirement, incentives are subject to clawback if participation ends before the end of the contract term.	Events are limited to 18 times per Winter (Dec-March), 9 times per Summer (May-Sept), and 9 times during other months, with a minimum 30 events/year.
Puerto Rico ²⁷	LUMA	Battery Emergency Demand Response Program	\$1.25/kWh performance payment.	Average 2 hours, primarily called 7-11 PM (M-F, year round) but events can be called at other times. Expected 75-100 events per year.
Rhode Island ^{28, 29}	Rhode Island Energy	Connected Solutions – Residential	\$225/kW-summer season (avg. per peak event), locked in for five years.	3 hours, between 3-8 PM, June 1 – Sept. 30, no more than 60 events per season.

²⁴ Commercial System Relief Payment amounts are available at: https://www.lipower.org/wp-content/uploads/2016/09/Stat_CSRP3.pdf.

²⁵ Distribution Load Reduction Payment amounts are available at https://www.lipower.org/wp-content/uploads/2016/09/Stat_DLRP3.pdf.

²⁶ North Carolina Utilities Commission, Docket E-7, Sub 1261 et al., Order Approving PowerPair Pilot Program, with Conditions, and Approving Modifications to EnergyWise and Power Manager Residential Load Control Programs (Jan. 11, 2024), available at <https://starw1.ncuc.gov/NCUC/page/docket-docs/PSC/DocketDetails.aspx?=&NET2022&DocketId=7e9e79b5-342a-4324-810d-77dccd03e343>.

²⁷ LUMA, Battery Emergency Demand Response Program: Program Terms & Conditions v1.0 (Sept. 7, 2023).

²⁸ Rhode Island Energy, Residential ConnectedSolutions Battery Program, available at <https://www.rienergy.com/RI-Home/ConnectedSolutions/BatteryProgram>.

²⁹ Rhode Island Energy has proposed to decrease the incentive rate to \$225/kW and eliminate the 5-year rate lock for systems that enroll in the program on or after June 1, 2024. Any current participant who reaches the end of the 5-year incentive lock will receive a \$200/kW incentive rate. (See System Reliability Procurement Investment Proposal 2024-2026, Docket [24-06-EE](#), Feb. 8, 2024).

State	Utility	Program	Compensation	Call Window
Rhode Island ^{30, 31}	Rhode Island Energy	Connected Solutions – Summer Targeted Dispatch (Commercial)	\$35/kW-summer season (avg. per peak event), locked in for five years.	3 hours, 3-8 PM, from June 1 – Sept. 30, 2-8 events per season.
Rhode Island ^{32, 33}	Rhode Island Energy	Connected Solutions – Daily Dispatch (Commercial)	\$275/kW-summer season (avg. per peak event), locked in for five years.	2-3 hours from June 1 – Sept. 30 (primarily July & August), events called to target 40 highest daily peaks
Vermont ³⁴	Green Mountain Power	Bring Your Own Device (Grid Charging)	Up-front payment of \$850/kW for 3-hour storage discharge capability or \$950/kW for 4-hour discharge capability, up to 10 kW. (10% event performance tolerance subject to clawback, \$100/kW adder for systems installed in grid-constrained locations, up to 10 kW). 10-year program commitment.	3-6 hours.

³⁰ Rhode Island Energy, Business ConnectedSolutions Battery program, available at <https://www.rienergy.com/RI-Business/Energy-Saving-Programs/ConnectedSolutions>.

³¹ Rhode Island Energy has proposed to decrease the incentive rate to \$35/kW and cap the total incentive allowed to \$1M per year for both the Targeted and Daily Dispatch pathways. (See System Reliability Procurement Investment Proposal 2024-2026, Docket [24-06-EE](#), Feb. 8, 2024).

³² Rhode Island Energy, Business ConnectedSolutions Battery program, available at energy.ri.gov/renewable-energy/energy-storage/connectedsolutions.

³³ Rhode Island Energy has proposed to decrease the incentive rate to \$275/kW and cap the total incentive allowed to \$1M per year for both the Targeted and Daily Dispatch pathways. (See System Reliability Procurement Investment Proposal 2024-2026, Docket [24-06-EE](#), Feb. 8, 2024).

³⁴ Green Mountain Power. BYOD – Terms and Conditions, available at <https://greenmountainpower.com/rebates-programs/home-energy-storage/bring-your-own-device/>.