



Electric Schedule EST – Energy Storage Tariff

Applicability: The Energy Storage Tariff (EST) is available to any MCE customer that is participating in MCE’s Energy Storage Program who has installed a fully operational battery energy storage system (BESS) with a qualifying inverter providing MCE with remote control and dispatch capability; or (ii) a residential customer who installs a fully operational BESS colocated and connected with a solar PV system installed behind the customer’s utility electric meter as verified by MCE.

This optional schedule is available to customers which meet the conditions detailed below in the Program Requirements section, and who meet one of the following qualifications:

1. Have completed the MCE Energy Storage Program Agreement (ESPA), or
2. Are residential customers who have completed the Energy Storage Verification (ESV) form verifying that a fully operational BESS has been installed and agreeing to operate that system consistent with requirements set forth in the EST.

Rates: All usage billed under this schedule will be in accordance with the customer’s otherwise applicable MCE rate schedule. In addition, customers served under this schedule will receive a monthly credit on their billing statement determined as follows:

Residential System Capacity

Between 7 kWh and 20 kWh: \$10 per month

Over 20 kWh: \$20 per month

Commercial System Capacity

\$20 per month per 20kWh installed, up to a maximum of \$200 per month

Residential customers not participating in MCE’s Energy Storage Program may remain on the EST for a maximum of five years, after which the customer must complete a new ESV to continue service under the EST, if the EST is still available at that time.

Residential customers participating in MCE’s Energy Storage Program may elect to continue service under the EST upon expiration of their ESPA, so long as the EST is available, and the customer meets the requirements of the EST. Upon expiration of the ESPA, residential customers must complete an ESV and will be subject to the program requirements and conditions of the EST pertaining to customers not participating in the Energy Storage Program to continue service under the EST.

Program Requirements: To be eligible for the EST, a customer must meet-and-maintain the following requirements:

1. All customers taking service under the EST must have their BESS colocated and interconnected with a fully operational solar PV system located behind the utility electric meter for as long as they remain on the EST. If the customer anticipates that the BESS and/or solar PV system will become non-operational

for any reason for a period longer than 30-days, the customer must notify MCE at least 30-days prior to the start of the period of non-operation and provide MCE with the expected start and end dates of the non-operation. In such instances, and subject to MCE's verification and approval, MCE may suspend bill credits for up to 90-days. If either the BESS or solar PV become nonoperational for longer than 30-days, and the customer has not received approval for a temporary suspension of the bill credits, the customer will be removed from this EST and the bill credits will be discontinued immediately.

2. Customers participating in MCE's Energy Storage Program must comply with the terms and conditions described in their ESPA and have installed a fully operational battery with a qualifying inverter compatible for communications and dispatchability by MCE pursuant to this tariff.
3. The customer's BESS must provide a minimum of 7 kWh of storage capacity per 24-hour discharge cycle and provide a minimum discharge rate of 2 kW per hour.
4. Customer BESS installations must be compliant with the rules, stipulations, and restrictions of all manufacturer warranties and State and local codes and regulations. Customers must also be authorized to interconnect and operate a BESS by PG&E.
5. Customers must take service under one of the following rate schedules:
 - a. Residential: E-TOU-A, E-TOU-B, E-TOU-C, E-TOU-D, EV2, E-6 and EM-TOU.
 - b. Commercial: B-1, B1-ST, B-6, B-10, B-19, B-20, BEV and SB.
 - c. Other rate schedules as determined by MCE will be noted at www.mcecleanenergy.org/resiliency.
6. Customers receiving a monthly credit must enroll in or already be enrolled in a net energy metering program.
 - a. Aggregated net energy metering customers may participate, but for their generating account only.
 - b. Virtual net energy metering customers are ineligible from participating, except with the written approval of MCE, in situations where the battery is designed to provide emergency power to a multi-family housing facility.
7. Customers who change onto an ineligible rate schedule may be removed from the Energy Storage Program and Energy Storage Tariff.
8. Customers must have an installed a SmartMeter, MV-90, or equivalent load meter capable of providing 15-minute interval data.
9. Customers must provide any information reasonably requested, such as specifications for BESS or solar installations, by MCE or its authorized designees that is necessary for MCE to administer this EST.
10. The EST is available to MCE customers only. If a participating customer opts-out of MCE service, the customer will be immediately removed from the EST on the effective date of the optout and will be ineligible for further credits.

11. Customers participating in MCE's Energy Storage Program and who have completed an ESPA agree to allow MCE and its authorized designees to operate the BESS consistent with the MCE Energy Storage Program rules and guidelines contained in the ESPA. A participating customer must allow MCE to charge/discharge the BESS at its discretion, subject to the following limitations:
 - a. MCE shall have the option to discharge the BESS daily, up to the capacity and charge or discharge limits set by each BESS's warranty.
 - b. MCE may at its discretion charge the BESS, except as necessary during Public Safety Power Shutoff (PSPS) or unplanned outage events (see Special Conditions 1 and 2 below).
 - c. The BESS shall be charged during non-peak hours from the colocated solar PV system, except as described in Special Condition 1 below.
 - d. MCE may charge and discharge the BESS multiple times during the day, up to limits set in the ESPA and no more than the BESS vendor's charge cycles under warranty.
 - e. If an unplanned outage or emergency situation occurs, MCE will cease usage of the BESS until the situation is resolved; see Special Conditions 2 and 3 below.
 - f. If MCE loses connectivity with the BESS, it will continue to charge and discharge autonomously based on expected conditions; see Special Condition 4 below.

12. Residential customers not participating in MCE's Energy Storage Program must sign the ESV form and agree to operate their system as follows:
 - a. **Normal Operation:** During non-emergency, normal operating days, the BESS must be set to charge exclusively from the solar PV and to discharge down to the reserve margin for the BESS during the system peak period between 4:00 p.m. and 9:00 p.m. every day, including weekdays, weekends and holidays. Customers may set their normal daily operating schedule either manually or via a software application provided by their battery installer, set to "TOU Mode," "Solar Self-Consumption Mode," or any similar operating mode.
 - b. **Planned Outages:** In the event of an official notice from PG&E of a planned outage or Public Safety Power Shutoff (PSPS) event, customers may set their BESS to fully charge and maintain a 100 percent state of charge up to 48-hours in advance of an announced outage event. When power from the grid is interrupted, the BESS should be set to "Backup Mode." At the conclusion of the event, and once the BESS has fully charged, customers must resume Normal Operation, as described in 12(a) above.
 - c. In the event of an unannounced, unanticipated grid outage, customers may operate the BESS in "Backup Mode" until the event is over and the BESS has fully charged. Once the system has fully charged, customers must resume Normal Operation, as described in 12(a) above.
 - d. **Reserve Margin:** During Normal Operation, the BESS must have the reserve margin set to a maximum of 20 percent. If a grid outage is anticipated, either due to a planned outage, PSPS event, severe weather events, or potential wildfire events, customers may temporarily increase the reserve margin to ensure the BESS reaches a 100 percent state of charge up to 48-hours in advance of such events. Once the event has ended and the BESS has been fully recharged, the reserve margin must be reset to 20 percent.

13. Customers not participating in MCE's Energy Storage Program may elect to stop participation in MCE's EST by contacting MCE. Termination of participation in EST, and the credits for participation, will be effective at the end of the customer's current billing cycle.

Special Conditions for Customers Participating in MCE's Energy Storage Program:

1. **Public Safety Power Shutoffs.** In the event that PG&E calls a pending Public Safety Power Shutoff event (PSPS) in the vicinity of a customer, MCE will attempt to charge the BESS to full capacity in advance of the PSPS event. If necessary, MCE may charge the BESS to full capacity during any time of day, including "peak" periods, to maximize resiliency benefits for customers. Once the PSPS event has been resolved, and power has been restored, MCE will resume its normal dispatching of the BESS.
2. **Unplanned Outages.** MCE will instruct the BESS to operate independently in the event of an unplanned outage. The BESS will be charged using on-site generation resources if available, and only discharged to provide power for on-site usage. Once grid power has been restored, MCE will resume its normal dispatching of the BESS.
3. **Emergency Situations.** In the event of a disaster event (flooding, wildfires, earthquakes, etc.) MCE will cease dispatching the BESS and signal for the BESS to begin charging as rapidly as possible to maximize resiliency benefits for customers, subject to Special Condition 4 below. Once the disaster event has been resolved, MCE will resume its normal dispatching of the BESS.
4. **Loss of Connectivity.** It is the customer's responsibility to ensure continued connectivity to the BESS and inverter. If MCE loses connectivity to a BESS, such as due to interruption of internet or cellular connection, the BESS will revert to autonomous control, using pre-defined operating parameters established by MCE, until connectivity is restored.