



ELECTRIC SCHEDULE E-STORE
STATION SERVICE FOR STORAGE DEVICES

Sheet 1

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APPLICABILITY: This schedule is applicable to customers with in front of the meter (FTM) storage devices who will at any time charge their storage devices using grid power and require station service. Existing storage installations with station service requirements must take charging service under Schedule E-STORE, including pilot storage facilities, storage facilities with only station load, as well as energy storage co-located with another generator within the same service delivery point. Customers with any behind-the-meter (BTM) Generating Facilities, including energy storage devices, are not eligible for service under this Schedule.

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TERRITORY: This rate schedule applies everywhere PG&E provides electric service.

RATES: A customer taking service under this rate schedule will be billed under PG&E's standby service, Schedule S and must execute and abide by the terms and conditions of the Special Agreement For Retail Storage Station Service For In Front Of The Meter Applications (Form 79-1188).

The Station Power Load Reference Value shall be the Reservation Capacity employed in Schedule S Special Condition 1.

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Decision 17-04-039

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

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Sheet 2

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- DEFINITIONS:
1. **WHOLESALE CHARGING** – All energy drawn from the grid to charge energy storage resources for later resale is Wholesale Charging. Wholesale Charging includes charging energy, efficiency losses, resistive losses, pumps (flow batteries and pumped hydro), power conversion systems, transformers, battery management systems, thermal regulation and vacuum (for flywheels). (N)
 2. **RETAIL STATION POWER** – All energy that is consumed (and not resold) is counted as retail station power. Additionally, all energy consumed during periods when the storage device is idle is Retail Station Power which includes information technology, lighting, ventilation and safety.
 3. **STATION POWER** – All energy used for purposes other than for supporting a resale of energy back to the wholesale markets.
 4. **IN FRONT OF THE METER (FTM)** – Storage applications where all energy discharged less station load is intended for grid export.
 5. **BEHIND THE METER (BTM)** – Storage applications where all energy discharged less station load are intended for onsite use.
 6. **IDLE CHARGING STATE** – A state where the storage device is neither charging nor discharging regardless of whether the energy storage device is providing a service (e.g., ancillary service) to the grid during that same interval, but where Station Power may be consumed.
 7. **STATION POWER LOAD REFERENCE VALUE** – The maximum demand value (kW) registered within a 15-minute billing interval during any idle charging state. This value includes power draws to serve information technology, lighting, ventilation and safety loads. The station Power Load Reference Value will vary based on ambient conditions and plant operations. The Station Power Load Reference Value shall be designated in the Special Agreement For Retail Storage Station Service For In Front Of The Meter Applications (Form 79-1188).
 8. **CROSSOVER THRESHOLD VALUE** – The threshold which determines if the entire metered quantity is counted as retail or wholesale within a 15-minute billing interval. Any energy consumed that exceeds the Crossover Threshold Value is deemed Wholesale Charging within the 15-minute billing interval. Conversely, if the energy consumed does not exceed the Crossover Threshold Value within a 15-minute billing interval, any energy consumed within that interval is deemed Retail Station Power. (N)

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Sheet 3

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SPECIAL
CONDITIONS:

- 1. **METERING:** All metering, equipment and protective relays necessary to implement the provisions in this tariff will be at Customer's expense. Storage facilities will be metered under one of three options described below:
 - A. All electric charging service under this schedule may be separately metered via an independent grid tie for station load and a separate tie for wholesale load. The station service meter shall to the extent practicable reasonably capture all of the Retail Station Power loads. Any Retail Station Power loads not captured should be reported to PG&E at the time of interconnection or at any later date the customer is aware of such retail loads.
 - B. All electric charging service under this schedule may be separately metered via a sub-metering arrangement. The retail station service sub-meter shall to the extent practicable capture all of the station loads. Any station loads not captured should be reported to PG&E at the time of interconnection or at any time the customer is first aware of such retail loads.
 - C. PG&E, at its discretion, may accept alternative measurement arrangement to the extent that the metering arrangement reasonably captures station load and does not impose and an unreasonable administrative burden to PG&E.
- 2. **NETTING:** Netting for the purpose of determining retail billing quantities will be predicated on the following:
 - A. Insofar as a storage resource withdraws energy (charges) or injects (discharges) more wholesale energy during a settlement interval than is station power consumption during the same interval, that consumption should be able to be netted against the injected amount, just as it is for conventional generators.
 - B. If a storage device is idle for an entire 15minute billing interval, all energy consumed is Retail Station Power.
 - C. In instances where the cumulative absolute value of charging plus discharging is greater than the station power load in a 15-minute interval, then the load is wholesale load. If the cumulative absolute value of charging and discharging is less than the station load, in a 15-minute interval, then the station power load is retail load.

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Sheet 5 (N)
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SPECIAL CONDITIONS: (Cont'd.)

- 4. COMMUNICATIONS: PG&E shall require storage customer to provide pertinent information required to determine the retail station power bill. Such information will be specified in the Special Agreement for Retail Storage Station Service For In Front Of The Meter Applications (Form 79-1188). Required information shall include storage resource capacity, scheduling coordinator, storage resource type and any information deemed material in accurately and timely determining the Retail Station Power bill.
5. CUSTOMER NOTICE TO PG&E: Customer shall notify PG&E, in writing or by reasonable means through a designated PG&E account representative authorized to receive such notification, of their intention to make material changes that will affect the Station Power Load Reference Value including, but not limited to, the addition of capacity or decommissioning of storage facility.
6. DISPUTE RESOLUTION: If a customer believes that the monthly Retail Station Power bill does not Comply with the terms and conditions agreed on the Special Agreement For Retail Storage Station Service (Form 79-1188), the customer must notify PG&E of the basis for this disagreement in writing, within 30 days after receipt of the contested monthly retail Station Power bill Statement provided by PG&E. If PG&E does not accept the customer's position, it will respond in writing within 5 days after receipt of such notice. The customer shall notify PG&E in writing or by reasonable means through a designated PG&E account representative authorized to receive such notification within 14 days of receiving PG&E's response if the customer wishes to pursue informal dispute resolution. If the customer makes a timely request for informal dispute resolution, PG&E and the customer shall promptly seek assistance in reaching informal dispute resolution from the Commission's Energy Division, or shall seek mediation of the dispute from the Commission's Administrative Law Judge Division. If the dispute is not resolved within 60 days of the customer's request to pursue informal dispute resolution, the customer may file a complaint with the Commission within the next 20 days. (PG&E and the customer may also agree to extend this 20 day period, in order to allow for further negotiations or other resolution techniques.) In such events, the customer shall continue to be responsible for paying the monthly retail charges on a timely basis, with such payments subject to future refund or other adjustment as appropriate if the Commission establishes that different information should have been used as the basis for the customer's retail station power charges.