

# Battery System Interconnections – Interim Technical Requirements

PacifiCorp supports the implementation of energy storage and is currently developing a policy for battery interconnections. In the interim, the following technical requirements will be applied to battery system interconnect requests to ensure safe and reliable operation of the energy grid. These requirements may change without notice as PacifiCorp continues to develop its battery interconnection policy.

- Battery systems shall not export power through the point-of-interconnection (POI) to the energy grid.
- Battery inverters shall be IEEE 1547 & UL 1741 Certified, with intentional islanding permitted.
- Battery systems shall comply with applicable electrical codes.
- A one-line drawing shall be required with each battery system interconnection request.
- An AC disconnect switch shall be required for every battery system. If the battery system is part of a customer generation system, the requirements are as follows:
  - For AC-coupled battery systems:
    - An AC disconnect switch shall be required for the battery system. A separate AC disconnect switch shall be required for the customer generation system in accordance with state and local codes.
  - For DC-coupled battery systems:
    - If the battery system and the customer generation system share the same inverter device, an AC disconnect switch shall be required for the battery system. If an AC disconnect switch is required for the customer generation system in accordance with state and local codes, the battery system and customer generation system may share the same AC disconnect switch. It is advised that no loads be located behind the AC disconnect switch.
    - If the battery system and the customer generation system use different inverter devices, an AC disconnect switch shall be required for the battery system. A separate AC disconnect switch shall be required for the customer generation system in accordance with state and local codes.
- The AC disconnect switch for a battery system shall be:
  - Readily accessible to PacifiCorp at all times.
  - Co-located with the utility meter according to state codes for customer generation.
  - Manual
  - Load break
  - Lockable
  - Clearly indicated whether it is in the open or closed position
- A transfer switch shall be required with every battery system.
  - If the transfer switch uses an open transition (break-before-make), there are no additional requirements.
  - If the transfer switch uses a closed transition (make-before-break), then the battery system and any customer generation system behind the same transfer switch shall comply with PacifiCorp Policy 138, section 6.8 “Emergency Generators.”
- All inspections provided by the Authority Having Jurisdiction must clearly reflect inspection of the battery system.