Form #168

Code Compliance Checklist

ENERGY STORAGE SYSTEMS

Building and Safety
Permit Service Center

All plans must be submitted in electronic format as an unsecured, flattened PDF with embedded fonts. Minimum 11”x17” sheet size.

This checklist is intended to provide information and improve consistency in local application and enforcement of the California Building Code requirements as they may apply to this project.

Numbers in parenthesis refer to code sections of the 2025 edition of the California Residential Code (CRC), California Electrical Code (CEC), California Mechanical Code (CMC), California Plumbing Code (CPC), California Energy Code (CEnC), and California Green Building Standards Code (CGBSC).

Building and Safety
1947 Center St. 3rd floor
Berkeley, CA 94704
510-981-7440 TTY 6903
buildingandsafety@berkeleyca.gov

Project Information Permit #:

Address:

Permit Submittal Requirements

- ☐ **Schematic Site Plan** showing building footprint(s) with distances to property lines, parking area(s), location of the electrical service/subpanels, and any existing and proposed solar photovoltaic system and energy storage system(s). The site plan shall also contain project information (i.e. project address, owner’s information, scope of work statement), applicable codes (and editions), and signature by the document author.
- ☐ **Floor Plan (Existing and Proposed)** showing location of energy storage system. Energy storage system shall not be installed within the habitable space. Installations in a location subject to vehicle damage shall be protected by approved barriers.
- ☐ **Electrical Plan** showing the complete single line diagram of the energy storage system (ESS), any PV and utility interconnection, existing service size and number of meters, size/type/insulation ratings (voltage, temperature, etc.) of all conductors and associated wiring components, markings & labeling.
- ☐ **Permanent Plaque or Directory** denoting all electric power sources on or in the premises at the service equipment location.
- ☐ **Manufacturer’s Specification Sheets** with make, model, listing, size, and weight for all components and structural connection details. Grounding method used must comply with installation manual requirements.

Residential Code Requirements

- ☐ **Energy Code Requirements:** Energy storage systems shall be listed and labeled with accordance with UL 9540. [CRC R330.2]
  Individual units shall be separated from each other by not less than 3 feet except where smaller separation distances are documented to be adequate based on largescale fire testing complying with UL 9540A. [CRC R330.3.1 and CFC 1207.11.2.1]
- ☐ **Installation:** ESS shall be installed in accordance with the manufacturer’s instructions and their listing. [CRC R330.3]
- ☐ **Location:** ESS shall be installed only in the following locations: [CRC R330.4]
  (1) Detached garages and detached accessory structures.
  (2) Attached garages separated from the dwelling unit living space in accordance with CRC R302.6.
  (3) Outdoors or on the exterior side of exterior walls located not less than 3 feet from doors and windows directly entering the dwelling unit, except where smaller separation distances are permitted by the UL 9540 listing and manufacturer’s installation instructions.

Location (Continued):

(4) Enclosed utility closets, basements, storage or utility spaces within dwelling units with finished or noncombustible walls and ceilings. Walls and ceilings of unfinished wood-framed construction shall be provided with not less than 5/8-inch Type 'X' gypsum wallboard. Openings into the dwelling shall be equipped with solid wood doors not less than 1 3/8 inches in thickness, solid or honeycomb-core steel doors not less than 1 3/8 inches in thickness, or doors with a 20-minute fire protection rating. Doors shall be self-latching and equipped with a self-closing or an automatic-closing device. Penetrations through the required gypsum wallboard into the dwelling shall be protected as required by Section R302.11, Item 4.

ESS shall not be installed in sleeping rooms, or closets or spaces opening directly into sleeping rooms or in habitable spaces of dwelling units.

- ☐ **Energy Rating:** Individual ESS units shall have a maximum rating of 20 kWh. The ratings of the ESS in each location shall not exceed the ratings in Table R330.5. The total aggregate ratings of ESS on the property shall not exceed 600 kWh. [CRC R330.5]
- ☐ **Protection From Impact:** Energy storage systems installed in a location subject to vehicle damage shall be protected by approved barriers. [CRC R330.8]

Electrical Code Requirements

- ☐ **Qualifications of Installer:** The installation and maintenance of ESS equipment and all associated wiring and interconnections shall be performed only by qualified persons. [CEC 706.3]
- ☐ **Dwelling Units:** An ESS for dwelling units shall not exceed 100 volts between conductors or to ground. [CEC 706.20(B)]
- ☐ **Disconnecting means:** Means shall be provided to disconnect the ESS from all wiring systems, including other power systems, utilization equipment, and its associated premises wiring. The disconnecting means shall be readily accessible and shall comply with one or more of the following: [CEC 706.15(B)]
  - (1) Located within the ESS
  - (2) Located within sight and within 3 m (10 ft) from the ESS
  - (3) Where not located within sight of the ESS, the disconnecting means, or the enclosure providing access to the disconnecting means, shall be capable of being locked in accordance with 110.25

  For one- and two-family dwellings, an ESS shall include an emergency shutdown function to cease the export of power from the ESS to premises wiring of other systems. An initiation device(s) shall be located at a readily accessible location outside the building and shall plainly indicate whether in the "off" or "on" position. The "off" position of the device(s) shall perform the ESS emergency shutdown function.
- ☐ **Notification and Marking:** The disconnecting means shall be plainly indicating whether it is in the open (off) or closed (on) position and be permanently marked "ENERGY STORAGE SYSTEM DISCONNECT." The disconnecting means shall be legibly marked in the field to indicate the following: [CEC 706.15(C)]

  (1) Nominal ESS output voltage.
- ☐ **Partitions Between Components:** Where circuits from the input or output terminals of energy storage components in an ESS pass through a wall, floor, or ceiling, a readily accessible disconnecting means shall be provided within sight of the energy storage component. Fused disconnecting means or circuit breakers shall be permitted to be used. [CEC 706.15(D)]
- ☐ **Space About ESS Components:** Working spaces for ESS shall comply with CEC 110.26 and 110.34. [CEC 706.20(C)(1)]
- ☐ **Directory:** A permanent plaque or directory denoting all electric power sources on or in the premises shall be installed at each service equipment location and at locations of all electric power production sources capable of being interconnected. [CEC 110.21(B), 706.21, 705.10 and 712.10]
- ☐ **Overcurrent Protection:** Overcurrent protective devices, where required, shall be rated in accordance with CEC 240 and the rating provided on systems serving the ESS and shall be not less than 125 percent of the maximum currents calculated in CEC 706.31(B).

Additional:

I certify that I have read and acknowledged all of the Code Requirements noted above. I accept full responsibilty for complying with all of the above requirements, as applicable to my project. I further agree that if I fail to comply with the code requirements, due to error or omission, I will correct all deficiencies prior to final inspection.

Name	Signature	Date

Select One: ☐ Contractor ☐ Owner ☐ Owner's Agent