

BLUEPRINT

CALIFORNIA ENERGY COMMISSION
EFFICIENCY DIVISION

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Low-Rise Multifamily Data Registry Update

The California Energy Commission (CEC) approved CalCERTS as a provider of a low-rise multifamily data registry under the 2022 Building Energy Efficiency Standards (Energy Code). Accordingly, **updated enforcement guidance** has been issued regarding Energy Code compliance documentation for low-rise multifamily projects. Authorities having jurisdiction, data registry users, and all other responsible persons should review the **new advisory**, to ensure that permits for low-rise multifamily projects under the 2022 Energy Code are not delayed and the required compliance documents (forms) are registered. See Table 1.

Low-rise multifamily certificates of compliance (LMCC) forms for projects that require field verification and diagnostic testing by a home energy rating system (HERS)

rater must be registered with an approved data registry per the 2022 Energy Code **Section 10-103(a)**. All associated low-rise multifamily certificates of installation (LMCI) and low-rise multifamily certificates of verification (LMCV) forms for the project need to be registered as well. The compliance forms do not need to be registered for projects which do not require field verification and diagnostic testing by a HERS rater, including certain alterations and additions to existing multifamily buildings.

Developments for the CHEERS low-rise multifamily data registry application and approval will appear on the **docket 22-HERS-01**. For more information, please visit the **Home Energy Rating System Program - HERS webpage** and the **2022 Energy Code webpage**.

Low-rise multifamily data registry provider	New permit applications submitted on or after February 15, 2024	Partially completed projects with permit application submitted prior to February 15, 2024	Completed projects with permit applications submitted prior to February 15, 2024
CalCERTS	LMCC forms required to be registered in an approved low-rise multifamily data registry	Register all forms, including manually completed forms to the CalCERTS low-rise multifamily data registry	Register manually completed forms to the CalCERTS low-rise multifamily data registry
CHEERS	Not available until the CHEERS low-rise multifamily data registry is approved	Continue working with manually completed forms until the CHEERS low-rise multifamily data registry is approved	Retain forms until the CHEERS low-rise multifamily data registry is approved, at which time forms must be registered

Table 1: Low-rise multifamily data registry guidance for projects at different stages



ENERGY STANDARDS
HOTLINE

Available to help with Energy Code (Title 24, Part 6) questions.

✉ EMAIL
title24@energy.ca.gov

☎ CALL
800-772-3300 | 916-654-5106
Toll free in CA | Outside CA

HOURS 8 a.m.–12 p.m. and 1 p.m.–4:30 p.m.

New Online Fact Sheets

The CEC has introduced a new style of online fact sheets for the 2022 Energy Code. These online fact sheets are interactive guides that have links to the related Energy Code sections and other resources. Topics addressed includes solar photovoltaic (PV), battery storage, energy storage system (ESS) ready, and electric-ready.

These online fact sheets are available via the Online Resource Center (ORC) **Solar PV, Solar Ready, Battery, and Electric-Ready webpage**

- High-Rise Multifamily Solar PV
- Low-Rise Multifamily Solar PV
- Nonresidential Solar PV
- Single-Family Solar PV
- High-Rise Multifamily Battery Storage Systems
- Nonresidential Battery Storage Systems
- Single-Family ESS-Ready
- Multifamily Electric-Ready
- Single-Family Electric-Ready

New Presentations on the ORC

Four new training presentations for the 2022 Energy Code are available on the Online Resource Center **Commissioning webpage** and the **Solar PV, Solar Ready, Battery, and Electric-Ready webpage**

- Commissioning
- Single-Family PV, Solar-Ready, ESS-Ready, and Electric-Ready
- Multifamily PV, Solar-Ready, Battery, and Electric-Ready
- Nonresidential PV, Solar-Ready and Battery

Q&A

Battery Storage Capacity

Can the battery storage nameplate capacity be used in Equation 140.10-B to determine the sizing requirements of the 2022 Energy Code Section 140.10(b)?

No. For compliance with the Energy Code the rated usable energy capacity of the battery

storage system in kWh must be used for **Equation 140.10-B**. The usable capacity is the battery energy storage capacity in kWh that a manufacturer allows to be used for charging and discharging.

To comply with **Section 140.10(b)** a battery storage system must meet the minimum qualification requirements of **Reference Joint Appendix JA12** which includes having a usable capacity of at least 5 kWh and an energy capacity retention of 70 percent of nameplate capacity after 4,000 cycles covered by a warranty, or 70 percent of nameplate capacity under a 10-year warranty.

Solar and Battery Equipment Lists

Do battery storage systems and energy storage systems need to be certified to the CEC to comply with Reference Joint Appendix JA12 requirements of the 2022 Energy Code?

Yes. The battery storage system is self-certified by the manufacturer to the CEC to meet the **JA12 qualifications** to comply with applicable prescriptive and performance requirements in the

Energy Code. For more information, please visit the manufacturer certifications of building equipment **Battery and Energy Storage Systems webpage**.

Does the CEC have solar equipment lists for PV modules, inverters (including smart inverters), meters, battery, and energy storage systems?

Yes. The Solar Equipment Lists Program includes equipment that meets established national safety and performance standards. These lists provide information and data that support existing solar incentive programs, utility grid connection services, consumers, and state and local programs.

Please note that equipment on the CEC's Solar Equipment Lists have reportedly undergone tests to achieve minimum safety and performance standards. The CEC makes no claim or warranty on the equipment and its safety, performance, or durability. For more information, please visit the **solar equipment lists webpage**.

Community Shared Solar

Can a newly constructed single-family project meet the solar PV requirements of the 2022 Energy Code Section 150.1(c)14 using a community shared solar generation system?

Yes. **Section 150.1(c)14** allows the use of an approved community shared solar generation system instead of installing solar PV panels on the building.

Are there any approved community shared solar generation systems that comply with the 2022 Energy Code Section 10-115?

Yes. The CEC approved the Sacramento Municipal Utility District (SMUD) as an administrator of a community shared solar generation system. This program is available to newly constructed low-rise residential projects in the SMUD service area. For more information, please visit the **docket 22-BSTD-06**.

Are there other service areas with an approved community shared solar generation system?

No. Currently there are no other approved community shared solar generation system administrators.

Any entity may apply to serve as an administrator of a proposed community shared solar electric generation system, including but not limited to utilities, builders, solar companies, or local governments. For more information on the requirements, please visit the 2022 Energy Code **Section 10-115**, the 2022 Single-Family Compliance Manual **Chapter 7.4**, and the 2022 Nonresidential and Multifamily Compliance Manual **Chapter 9.4**.

For additional help with the Energy Code, see Energy Code Ace's **online offerings** of trainings, tools, and resources.



Energy Use Intensity Reporting

If the performance report (CF1R-PRF-01, NRCC-PRF-01, or LMCC-PRF-01) shows negative values for the energy use intensity (EUI) can the project still comply with the Energy Code?

Yes. The EUI is not used to determine compliance with the Energy Code and should be disregarded during the plan review process. Single-family compliance is based on the source energy design rating (EDR1), efficiency energy design rating (Efficiency EDR2), and total energy design rating (Total EDR2). Nonresidential and Multifamily compliance is based on time dependent valuation (TDV) and source energy.

Nonresidential Unconditioned Spaces

Do the requirements of the 2022 Energy Code Section 120.1(c)4 for exhaust ventilation rates per Table 120.1-B apply to unconditioned spaces?

No. Per the 2022 Energy Code Section 100.0(e) the requirements of Sections 120.0 through 140.8 apply to newly constructed nonresidential buildings, hotels and motels that are mechanically heated or mechanically cooled. Newly constructed unconditioned nonresidential buildings must comply with Sections 110.9, 110.10, 120.6, 130.0 through 130.5, 140.3(c), 140.6, 140.7, and 140.8. Additionally, Sections 100.0 through 110.12 apply to all buildings covered by Section 100.0(a). For more information, please see Table 100.0-A of the 2022 Energy Code.

FOR MORE INFORMATION

Online Resource Center (ORC):
www.energy.ca.gov/orc

Home Energy Rating System (HERS):
www.energy.ca.gov/HERS

Acceptance Test Technician Certification Provider Program (ATTCP): www.energy.ca.gov/ATTCP

2022 Approved Compliance Software:
<https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-1>

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The CEC welcomes feedback on Blueprint. Please contact the editor at Title24@energy.ca.gov

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Blueprint newsletter serves as a resource to assist stakeholders in complying with the Energy Code. It does not provide legal advice. Please refer to California Code of Regulations, Title 24, Parts 1 and 6 for specific requirements.



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