

**CERTIFICATE OF INSTALLATION**

*This Certificate of Installation documents the installation of solar and battery features, materials, components, and manufactured devices required to demonstrate compliance with Title 24, Part 6 per §10-103(a)3 for nonresidential, hotel/motel and high-rise residential occupancies.*

|                    |                     |
|--------------------|---------------------|
| Project Name:      | Enforcement Agency: |
| Dwelling Address:  | Permit Number:      |
| City and Zip Code: | Date Permit Issued: |

**A. GENERAL INFORMATION**

|    |                                           |  |    |                                |  |
|----|-------------------------------------------|--|----|--------------------------------|--|
| 01 | Project Location (city):                  |  | 05 | Authority Having Jurisdiction: |  |
| 02 | Zip Code:                                 |  | 06 | Building Permit #:             |  |
| 03 | Date of Permit Set used for construction: |  | 07 | Date of As-built Set:          |  |
| 04 | Name of Permit Set used for construction: |  | 08 | Name of As-built Set:          |  |

**B. INSTALLER SCOPE**

*This table indicates construction systems and materials documented on this Certificate of Installation.*

| 01                       |                                                     |                          |                                                              |                          |                            |                          |                                 |
|--------------------------|-----------------------------------------------------|--------------------------|--------------------------------------------------------------|--------------------------|----------------------------|--------------------------|---------------------------------|
| <input type="checkbox"/> | Allocated Solar Zone                                | <input type="checkbox"/> | Photovoltaics                                                | <input type="checkbox"/> | Solar Water Heater         | <input type="checkbox"/> | Smart Thermostat                |
| <input type="checkbox"/> | Home Automation System                              | <input type="checkbox"/> | Greywater Irrigation                                         | <input type="checkbox"/> | Rainwater Catchment System | <input type="checkbox"/> | Electric Vehicle Charging Space |
| <input type="checkbox"/> | Energy Star Dishwasher and Energy Star Refrigerator | <input type="checkbox"/> | Energy Star Dishwasher F w/Electronically Communicated Mower | <input type="checkbox"/> | Battery Storage System     |                          |                                 |



### C. COMPLIANCE RESULTS

*This table indicates whether the as-built conditions documented in this form are equal or better than what was documented on the permitted Certificate of Compliance. If the installation is not equal or better, Section 10-103(a)2B requires the Certificate of Compliance form to be revised accordingly to demonstrate compliance.*

|                                                                                                                                                 |                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 01                                                                                                                                              | INSTALLED FEATURES EXACTLY MATCH DESIGN ON PERMITTED CERTIFICATE OF COMPLIANCE |
| Documented as-built conditions should be verified by inspector from Authority Having Jurisdiction to comply.                                    |                                                                                |
| The Certificate of Compliance should be revised to confirm as-built conditions comply and this Certificate of Installation updated accordingly. |                                                                                |

### D. EXCEPTIONAL CONDITIONS

*This table is auto-filled with uneditable comments because of field conditions noted by the installer that may impact mechanical controls requirements documented on the Certificate of Compliance.*

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### E. INSTALLER NOTES

*This table includes remarks made by the installer to the Authority Having Jurisdiction.*

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**F. INSTALLATION DETAILS**

The following tables indicate performance requirements as documented on the permitted Certificate of Compliance for all systems and components included in Table B. Installer Scope. Also indicated are the as-built conditions documented by the installer/ documentation author.

**Allocated Solar Zone on Roof for Future Use**

| 01                  | 02                                         | 03                                              | 04                                                                                                                                      | 05                                                                     | 06                                                                                                                                                   | 07                    |
|---------------------|--------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Subarea Name        | Building Plan Reference Showing Solar Zone | Solar Zone Free from Obstructions? <sup>1</sup> | Location reserved for inverters and metering and a pathway reserved for routing of conduit from solar zone to point of interconnection? | Main electrical service panel has a minimum busbar rating of 200 amps? | Main electrical service panel has a reserved space for the installation of a circuit breaker for future solar electric installation that is labeled? | Solar Zone Compliance |
| Per C of C          |                                            |                                                 |                                                                                                                                         |                                                                        |                                                                                                                                                      |                       |
| As-built Conditions |                                            |                                                 |                                                                                                                                         |                                                                        |                                                                                                                                                      |                       |

**Permanently Installed Solar Photovoltaic (PV) System**

|                          |                                                                        |                                |             |               |                                      |            |                         |                         |               |                                |
|--------------------------|------------------------------------------------------------------------|--------------------------------|-------------|---------------|--------------------------------------|------------|-------------------------|-------------------------|---------------|--------------------------------|
| <input type="checkbox"/> | The system meets the installation requirements of Joint Appendix JA11. |                                |             |               |                                      |            |                         |                         |               |                                |
| 01                       |                                                                        | 02                             | 03          | 04            | 05                                   | 06         | 07                      | 08                      | 09            | 10                             |
| PV Array ID or Name      |                                                                        | Installed DC Power Rating (kW) | Module Type | Azimuth (deg) | Tilt Input (deg/pitch)               | Angle/Tilt | Annual Solar Access (%) | Inverter Efficiency (%) | Array Type    | Module Level Power Electronics |
| As-built Conditions      |                                                                        |                                |             |               |                                      |            |                         |                         |               |                                |
| As-built Conditions      |                                                                        |                                |             |               |                                      |            |                         |                         |               |                                |
| 11                       | Total As-built DC System Size (kW)                                     |                                |             | 12            | Total DC System Size per C of C (kW) |            |                         | 13                      | PV Compliance |                                |

**Battery Energy Storage System**

|                          |                                                                        |         |                                            |                                                  |         |                                             |                                  |                    |
|--------------------------|------------------------------------------------------------------------|---------|--------------------------------------------|--------------------------------------------------|---------|---------------------------------------------|----------------------------------|--------------------|
| <input type="checkbox"/> | The system meets the installation requirements of Joint Appendix JA12. |         |                                            |                                                  |         |                                             |                                  |                    |
| 01                       |                                                                        | 02      | 03                                         | 04                                               | 05      | 06                                          | 07                               | 08                 |
| Manufacturer             |                                                                        | Model # | Rated Usable Energy Capacity of BESS (kWh) | Rated Power Capacity of BESS (kW <sub>dc</sub> ) | Control | Rated Single Charge-Discharge AC Efficiency | Battery System Certified by CEC? | Battery Compliance |
| Per C of C               |                                                                        |         |                                            |                                                  |         |                                             |                                  |                    |
| As-built Conditions      |                                                                        |         |                                            |                                                  |         |                                             |                                  |                    |

**Permanently Installed Solar Hot Water System**

|                        |  |                      |             |                        |                          |                |
|------------------------|--|----------------------|-------------|------------------------|--------------------------|----------------|
| 01                     |  | 02                   | 03          | 04                     | 05                       | 06             |
| SRCC # or IAPMO File # |  | Certification Number | System Type | Solar Savings Fraction | Drainwater Heat Recovery | SHW Compliance |
| Per C of C             |  |                      |             |                        |                          |                |
| As-built Conditions    |  |                      |             |                        |                          |                |

**Smart Thermostats and Additional Efficiency Measure in Multifamily Dwelling Units**

*The following requirements have been included on the permitted Certificate of Compliance to comply with Title 24, Part 6. Installations shall meet these requirements or the Certificate of Compliance shall be modified to demonstrate compliance.*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. All thermostats in each dwelling unit comply with the following requirements from Title 24, Part 6 §110.12(a) and all requirements in Joint Appendix 5:</p> <p>All demand responsive controls shall be either:</p> <p>A. A certified OpenADR 2.0a or OpenADR 2.0b Virtual End Node (VEN), as specified under Clause 11, Conformance, in the applicable OpenADR 2.0 Specification; or a certified Baseline Profile OpenADR 3.0 Virtual End Node; or</p> <p>B. Certified by the manufacturer to the Energy Commission as being capable of responding to a demand response signal from a certified OpenADR 2.0b or a certified Baseline Profile OpenADR 3.0 Virtual End Node by automatically implementing the control functions requested by the Virtual End Node for the equipment it controls.</p> <p>2. All demand responsive controls shall be capable of communicating using one or more of the following: Wi-Fi, ZigBee, BACnet, Ethernet, or hard-wiring.</p> <p>3. Demand responsive controls may incorporate and use additional protocols beyond those specified in Sections 110.12(a)1 and 2.</p> <p>4. When communications are the demand response signal is disabled or unavailable, all demand responsive controls shall continue to perform all other control functions provided by the control.</p> |
| Dwelling units include an ENERGY STAR dishwasher AND EITHER an ENERGY STAR refrigerator OR a whole house fan driven by an electronically commutated motor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dwelling units include a home automation system that is capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to demand response signals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dwelling units include alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Dwelling units include a rainwater catchment system designed to comply with the California Plumbing Code and any applicable local ordinances, and that uses rainwater flowing from at least 65% of the available roof area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Project complies with Title 24, Part 11, §A4.106.8.2 requirements for electric vehicle charging spaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

1. I certify that this Certificate of Installation documentation is accurate and complete.

|                                    |                                                           |
|------------------------------------|-----------------------------------------------------------|
| Documentation Author Name:         | Documentation Author Signature:                           |
| Documentation Author Company Name: | Date Signed:                                              |
| Address:                           | CEA/AEA/ECC Certification Identification (If applicable): |
| City/State/Zip:                    | Phone:                                                    |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Installation is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement (responsible builder/installer), otherwise I am an authorized representative of the responsible builder/installer.
3. The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations and the installation conforms to the requirements given on the Certificate of Compliance, plans, and specifications approved by the enforcement agency.
4. I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the scope of construction or installation identified on this Certificate of Installation, and I have ensured that the requirements that apply to the construction or installation have been met.
5. I understand that a completed signed copy of this Certificate of Installation shall be made available with the building permit(s) issued for the building and shall be made available to the enforcement agency for all applicable inspections. I will take the necessary steps to fulfill this requirement.
6. I understand that a completed signed copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy. I will take the necessary steps to fulfill this requirement.

|                                                                                 |                                          |              |
|---------------------------------------------------------------------------------|------------------------------------------|--------------|
| Responsible Builder/Installer Name:                                             | Responsible Builder/Installer Signature: |              |
| Responsible Person Scope                                                        |                                          |              |
| Company Name: (Installing Subcontractor or General Contractor or Builder/Owner) | Position With Company (Title):           |              |
| Address:                                                                        | CSLB License:                            |              |
| City/State/Zip:                                                                 | Phone:                                   | Date Signed: |

|                                               |               |
|-----------------------------------------------|---------------|
| CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS | NRCI-SAB-E    |
| Solar and Battery                             | (Page 1 of 2) |

#### A. General Information

1. Enter the City the project is located in.
2. Enter the zip code.
3. Enter the Date of Permit Set used for construction.
4. Enter the Name of Permit Set used for construction.
5. Enter the Authority Having Jurisdiction.
6. Enter the Building Permit #.
7. Enter the Date of As-Built Set.
8. Enter the Name of As-Built Set.

#### B. Project Scope

1. Select all applicable construction systems and materials documented.

#### C. Compliance Results

1. This table is auto filled based on selections made in section F.

#### D. Exceptional Conditions

1. This table is auto filled with uneditable comments because of selections made or data entered in tables throughout the form.

#### E. Installer Notes

1. Enter any notes or comments for the AHJ.

#### F. Installation Details

##### Allocated Solar Zone

1. This field is filled out automatically.
2. This field is filled out automatically.
3. Solar Zone Free of Obstructions: Select from dropdown.
4. This field is calculated automatically.

##### Permanently Installed Solar Photovoltaic (PV) System

1. Enter Installed DC Power Rating.
2. This field is calculated automatically.

|                                               |               |
|-----------------------------------------------|---------------|
| CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS | NRCI-SAB-E    |
| Solar and Battery                             | (Page 2 of 2) |

### **Battery Storage System**

1. Enter Rated Energy Capacity of Battery.
2. Enter Rated Power Capacity of Battery.
3. This field is calculated automatically.

### **Permanently Installed Solar Hot Water System**

1. SRCC/IAPMO#: Select from Dropdown.
2. Enter Certification Number.
3. This table is auto filled with uneditable text.
4. Enter Solar Savings Fraction.
5. This field is filled out automatically.
6. This field is calculated automatically.

### **Smart Thermostats and Additional Efficiency Measure in Multifamily Dwelling Units**

1. This table covers the additional requirements for Smart Thermostats and Additional Efficiency Measure in Multifamily Dwelling Units.

### **Documentation Declaration Statements**

1. The person who prepared the NRCI will sign and complete the fields for their name, company (if applicable), address, phone number, certification information (if applicable), date and signature.
2. The person who is assuming responsibility for the project being built to comply with Title 24, Part 6, will complete the fields for their name, company (if applicable), address, phone number, license number (if applicable), date and signature.