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CALIFORNIA HOMEBUILDING FOUNDATION

California Energy Permit Summary Report

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CIRB

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CIRB California Energy Permit Summary Proposed Definitions

New Single-Family Dwellings

- I. **Single-Family Housing Permits** – This definition encompasses detached, semi-detached, rowhouse and townhouse units. Rowhouses and townhouses are included when an unbroken ground-to-roof party or firewall separates each unit from the adjacent unit. Condominiums are included in single-family when they are of zero-lot-line or zero-property-line construction; when units are separated by an air space; or, when an unbroken ground-to-roof party or firewall separates units. New housing permits can be used as a possible baseline to determine the installation of new HVAC/mechanical systems that are otherwise not indicated with a separate permit.

HVAC (Heating, Ventilating, Air Conditioning)

- I. **HVAC Changeout Permits/Units/Valuations** – A changeout of an HVAC system (also referred to by CalCERTS's 2016 Updates as an "Altered Space Conditioning System") is defined by whether the changeout involves or affects refrigerant-containing components; including ductwork in an un-conditioned space, a furnace or FAU, or an AC Condenser or Evaporator Coil. A compressor replacement is not considered a repair by the 2016 standards and will not be included in the scope of this report. This report includes calculations of the equipment changeouts based upon the descriptions found in the Title 24, California Code of Regulations.

Each permit indicating one or multiple equipment types will be counted as one permit, located in the *HVAC Changeout Permits* category. If the permit encompasses more than one HVAC changeout, the calculations will be reflected in the *HVAC Changeout Units* category.

- II. **Unspecified Mechanical Permits/Valuations** – This category is designated for the unidentified residential or non-residential mechanical work on building permits which simply list the construction as "Mechanical." Mechanical work can include, but is not limited to, construction performed on a structure's cooling, heating or exhaust system(s).

Solar Installations

- I. **Photovoltaic Permits/Valuations** – Photovoltaic (solar) installations are defined here as systems or arrangements of electrical components which utilize and maintain sunlight as a power source. Solar permits and valuations in this report include installations of photovoltaic modules, or solar panels, on both residential and non-residential structures. Permits describing solar plants or large solar arrays exceeding \$1 million in value are included in the *Public Works* category of our CIRB Detailed Non-Residential Report. To order a Detailed Non-Residential Report, please contact our research team at CHF-CIRB@mychf.org or 916-340-3346 for more information.

Limitations of the CIRB Energy Permit Summary:

All information included in this report is received directly from statewide jurisdictions and municipalities in their own unique reporting formats and styles. CIRB interprets this data to meet the criteria established by our reporting standards and capabilities.

Because the majority of incoming building permit reports do not distinguish residential from commercial energy projects, The CIRB California Energy Permit Summary will not separate HVAC and Solar categories by Residential and Non-Residential changeouts or installations.

Calculations located in the Mechanical Permits/Valuations categories are described as such on the city/county building reports with no additional detail or indications of HVAC construction. While Mechanical permits may indicate changeouts, it is not of our knowledge or understanding to conclude that in our research.

If you have any questions or concerns regarding the CIRB *Energy Permit Summary*, please do not hesitate to email us at CHF-CIRB@mychf.org or call us at 916-340-3346.

Sources:

- **California Energy Commission**, *2016 Building Energy Efficiency Standards for Residential and Nonresidential Buildings*. Title 24, Part 6 and Associated Administrative Regulations in Part 1. Web. June 2015. <http://www.energy.ca.gov/>
- **Energy Performance Services**. "Glossary of Terms." *Title 24 Express*. (Excerpted from the CEC Title 24 Energy Standards). Web. January 6, 2014. <http://www.title24express.com/>.

Report Format Key

(-) Dashes indicate no data whatsoever received for the jurisdiction.
(0) Zeroes indicate non-energy data received for the jurisdiction.

CIRB Energy Permit Summary Report

Time Period: 02/2016

County	New Single-Family Dwelling Units	New Multi-Family Dwelling Units	HVAC Changeouts Permits	HVAC Changeouts Units	HVAC Changeouts Valuations	Unspecified Mechanical Permits	Unspecified Mechanical Valuations	Photovoltaic	Photovoltaic Valuation
Alameda County	141	284	132	132	\$1,143,384	0	\$0	264	\$4,880,395
Alpine County	0	0	0	0	\$0	0	\$0	0	\$0
Amador County	4	0	13	13	\$155,345	0	\$0	7	\$258,900
Butte County	48	0	55	56	\$243,360	0	\$0	118	\$1,778,971
Calaveras County	12	0	17	17	\$139,611	0	\$0	24	\$649,900
Colusa County	0	0	4	4	\$21,094	0	\$0	28	\$1,923,389
Contra Costa County	188	28	281	284	\$2,584,641	0	\$0	308	\$7,305,835
Del Norte County	1	0	0	0	\$0	0	\$0	2	\$50,500
El Dorado County	31	0	7	7	\$38,257	146	\$1,291,214	239	\$5,574,944
Fresno County	112	56	40	40	\$8,450	0	\$0	496	\$13,978,418
Glenn County	0	0	7	7	\$47,149	0	\$0	15	\$905,179
Humboldt County	12	0	24	25	\$45,210	8	\$0	17	\$0
Imperial County	16	0	20	23	\$95,110	0	\$0	24	\$428,090
Inyo County	0	0	0	0	\$0	0	\$0	0	\$0
Kern County	171	4	149	154	\$112,063	1	\$53,000	520	\$15,897,470
Kings County	22	96	15	15	\$73,153	1	\$5,600	79	\$1,255,199
Lake County	9	2	10	10	\$26,250	0	\$0	7	\$0
Lassen County	2	0	7	7	\$60,900	0	\$0	11	\$34,786
Los Angeles County	339	1,300	751	815	\$1,135,045	360	\$113,000	1,267	\$23,755,264
Madera County	7	0	14	14	\$84,055	0	\$0	97	\$752,025
Marin County	3	0	105	118	\$517,469	1	\$6,500	78	\$1,425,119
Mariposa County	2	0	9	9	\$0	0	\$0	10	\$0
Mendocino County	2	0	7	7	\$8,200	0	\$0	12	\$50,116
Merced County	46	0	44	46	\$324,849	0	\$0	169	\$3,837,956
Modoc County	0	0	0	0	\$0	0	\$0	1	\$201,108
Mono County	0	0	0	0	\$0	0	\$0	0	\$0
Monterey County	58	2	24	24	\$46,100	0	\$0	115	\$770,379
Napa County	6	0	44	44	\$343,228	19	\$181,623	56	\$1,372,865
Nevada County	4	0	13	14	\$98,640	0	\$0	3	\$47,419
Orange County	240	705	298	323	\$409,517	251	\$33,592	699	\$10,766,363
Placer County	167	0	108	108	\$1,196,447	51	\$143,200	286	\$6,030,166
Plumas County	0	0	1	1	\$0	0	\$0	0	\$0
Riverside County	427	2	171	175	\$1,527,166	58	\$704	514	\$11,805,885
Sacramento County	142	2	311	311	\$3,304,299	7	\$48,976	257	\$3,784,629
San Benito County	43	7	1	1	\$19,452	33	\$15,000	21	\$442,435
San Bernardino County	217	345	148	151	\$263,670	12	\$12,835	456	\$4,088,031
San Diego County	248	727	205	214	\$1,044,334	87	\$31,775	1,096	\$11,482,041
San Francisco County	4	631	1	1	\$50,596	3	\$3,915,000	0	\$0
San Joaquin County	87	0	94	94	\$600,849	1	\$1,000	198	\$2,487,578
San Luis Obispo County	43	0	10	10	\$62,684	0	\$0	100	\$1,700,783
San Mateo County	22	94	44	45	\$275,988	7	\$36,290	95	\$1,212,345
Santa Barbara County	33	63	13	13	\$49,566	54	\$506,400	70	\$894,264
Santa Clara County	68	131	155	155	\$554,686	12	\$128,354	477	\$2,206,284
Santa Cruz County	3	0	17	17	\$17,994	6	\$0	66	\$454,408
Shasta County	24	0	79	79	\$59,499	0	\$0	9	\$33,613
Sierra County	0	0	0	0	\$0	0	\$0	0	\$0
Siskiyou County	4	0	1	1	\$2,500	0	\$0	2	\$70,272
Solano County	87	0	105	105	\$860,868	16	\$72,566	155	\$2,518,129
Sonoma County	12	0	210	211	\$581,819	0	\$0	167	\$2,781,203
Stanislaus County	49	0	103	109	\$738,717	0	\$0	127	\$1,525,913
Sutter County	1	0	0	0	\$0	0	\$0	31	\$1,614,737
Tehama County	8	0	16	16	\$71,431	0	\$0	62	\$1,422,636
Trinity County	0	0	4	4	\$37,530	0	\$0	1	\$18,951
Tulare County	77	4	51	55	\$239,674	2	\$0	295	\$8,119,430
Tuolumne County	8	0	4	4	\$41,067	2	\$7,250	13	\$318,088
Ventura County	51	2	90	99	\$0	61	\$0	198	\$240,744
Yolo County	28	0	23	24	\$263,300	3	\$30,831	82	\$2,204,985
Yuba County	8	0	9	9	\$82,836	0	\$0	43	\$958,235
State Totals	3,337	4,485	4,064	4,220	\$19,708,052	1,202	\$6,634,710	9,487	\$166,316,375