

HB1003_L.018

SENATE COMMITTEE OF REFERENCE AMENDMENT

Committee on Transportation & Energy.

HB19-1003 be amended as follows:

1 Amend reengrossed bill, page 2, after line 1 insert:

2 "SECTION 1. In Colorado Revised Statutes, 12-23-104, **amend**
3 (2)(f.5) as follows:

4 **12-23-104. Board powers and duties - rules.** (2) In addition to
5 all other powers and duties conferred or imposed upon the board by this
6 article, the board is authorized to:

7 (f.5) Regulate a licensed master electrician, journeyman
8 electrician, or residential wireman who, acting within his or her scope of
9 competence, supervises a solar photovoltaic installation pursuant to
10 section 40-2-128. ~~C.R.S.~~; ON AND AFTER JANUARY 1, 2020, ALL
11 PHOTOVOLTAIC ELECTRICAL WORK FOR INSTALLATIONS OF AT LEAST
12 THREE HUNDRED KILOWATTS, INCLUDING THE INTERCONNECTION OF THE
13 MODULES, GROUNDING OF THE MODULES, ANY BALANCE OF SYSTEM
14 WIRING, AND THE CUSTOMER-SIDE POINT OF CONNECTION TO THE UTILITY
15 GRID, MUST BE PERFORMED BY A LICENSED MASTER ELECTRICIAN,
16 LICENSED JOURNEYMAN ELECTRICIAN, LICENSED RESIDENTIAL WIREMAN,
17 OR PROPERLY SUPERVISED ELECTRICAL APPRENTICES AND MUST COMPLY
18 WITH ALL APPLICABLE REQUIREMENTS OF THIS ARTICLE 23, INCLUDING
19 SECTIONS 12-23-105 AND 12-23-110.5, AND ALL APPLICABLE RULES OF
20 THE BOARD."

21 Renumber succeeding sections accordingly.

22 Page 3, strike lines 6 through 15.

23 Reletter succeeding paragraphs accordingly.

24 Page 3, strike line 17 and substitute "ASSOCIATED ELECTRICAL
25 EQUIPMENT".

26 Page 3, line 18, strike "SECTION".

27 Page 3, strike lines 24 through 27.

28 Strike page 4 and substitute:

29 "SECTION 3. In Colorado Revised Statutes, 40-2-128, **amend**
30 (1) introductory portion, (1)(a)(I)(D), and (1)(d) introductory portion; and
31 **repeal** (1)(c) as follows:

1 **40-2-128. Solar photovoltaic installations - supervision by**
2 **certified practitioners - qualifications of electrical contractors.**

3 (1) For all photovoltaic installations ~~funded wholly or partially through~~
4 ~~ratepayer-funded incentives as part of the renewable energy standard~~
5 ~~adjustment~~ allowed under section 40-2-124 WITH A DIRECT CURRENT
6 DESIGN CAPACITY OF LESS THAN THREE HUNDRED KILOWATTS:

7 (a) ~~(I) (D)~~ By submitting an initial application for funding or an
8 initial contract proposal, the applicant assumes responsibility for
9 employing or contracting with one or more certified energy practitioners
10 or licensed master electricians, licensed journeyman electricians, or
11 licensed residential wiremen to supervise the installation and as necessary
12 to maintain the three-to-one ratio required by ~~paragraphs (b) and (c) of~~
13 ~~this subsection (1)~~ SUBSECTION (1)(b) OF THIS SECTION, including during
14 any off-site, preinstallation assembly. Payment of any incentives for the
15 work shall not be approved until the applicant supplies the name and
16 certification number of each certified energy practitioner or the license
17 number of each master electrician, journeyman electrician, or residential
18 wireman who actually provided on-site supervision or was present to
19 maintain the three-to-one ratio required by ~~paragraphs (c) and (d) of this~~
20 ~~subsection (1)~~ SUBSECTION (1)(d) OF THIS SECTION.

21 (c) ~~On a system with a direct current design capacity of more than~~
22 ~~five hundred kilowatts:~~

23 ~~(f) During any photovoltaic electrical work, the ratio of the~~
24 ~~number of persons who are assisting with the work and who are neither~~
25 ~~licensed electricians nor registered electrical apprentices to the number~~
26 ~~of persons who are certified as provided in paragraph (a) of this~~
27 ~~subsection (1) shall never exceed three to one, and a person who is both~~
28 ~~licensed and certified shall not count double for purposes of measuring~~
29 ~~this ratio; and~~

30 ~~(H) There shall be at least one on-site supervisor who is certified~~
31 ~~as provided in paragraph (a) of this subsection (1) during the following~~
32 ~~stages; except that, if at any time during any of the following stages, there~~
33 ~~are more than twelve persons on the work site who are neither licensed~~
34 ~~electricians nor registered electrical apprentices and who are not certified~~
35 ~~as provided in paragraph (a) of this subsection (1), there shall be at least~~
36 ~~two persons who are certified as provided in paragraph (a) of this~~
37 ~~subsection (1) present on the work site and providing direct supervision~~
38 ~~of:~~

39 ~~(A) The installation of photovoltaic modules;~~

40 ~~(B) The installation of photovoltaic module mounting equipment;~~

41 and

42 ~~(C) Any photovoltaic electrical work.~~

43 (d) On a system with a direct current design capacity of five

1 ~~hundred kilowatts or less~~ THAN THREE HUNDRED KILOWATTS:

2 **SECTION 4.** In Colorado Revised Statutes, 12-115-107, **amend**
3 **as relocated by House Bill 19-1172 (2)(f)** as follows:

4 **12-115-107. Board powers and duties - rules - definition.**

5 (2) In addition to all other powers and duties conferred or imposed upon
6 the board by this article 115, the board is authorized to:

7 (f) Regulate a licensed master electrician, journeyman electrician,
8 or residential wireman who, acting within his or her scope of competence,
9 supervises a solar photovoltaic installation pursuant to section 40-2-128.
10 ON AND AFTER JANUARY 1, 2020, ALL PHOTOVOLTAIC ELECTRICAL WORK
11 FOR INSTALLATIONS OF AT LEAST THREE HUNDRED KILOWATTS, INCLUDING
12 THE INTERCONNECTION OF THE MODULES, GROUNDING OF THE MODULES,
13 ANY BALANCE OF SYSTEM WIRING, AND THE CUSTOMER-SIDE POINT OF
14 CONNECTION TO THE UTILITY GRID, MUST BE PERFORMED BY A LICENSED
15 MASTER ELECTRICIAN, LICENSED JOURNEYMAN ELECTRICIAN, LICENSED
16 RESIDENTIAL WIREMAN, OR PROPERLY SUPERVISED ELECTRICAL
17 APPRENTICES AND MUST COMPLY WITH ALL APPLICABLE REQUIREMENTS
18 OF THIS ARTICLE 115, INCLUDING SECTIONS 12-115-109 AND 12-115-115,
19 AND ALL APPLICABLE RULES OF THE BOARD.

20 **SECTION 5. Act subject to petition - effective date.** (1) Except
21 as otherwise provided in subsection (2) of this section, this act takes
22 effect at 12:01 a.m. on the day following the expiration of the ninety-day
23 period after final adjournment of the general assembly (August 2, 2019,
24 if adjournment sine die is on May 3, 2019); except that, if a referendum
25 petition is filed pursuant to section 1 (3) of article V of the state
26 constitution against this act or an item, section, or part of this act within
27 such period, then the act, item, section, or part will not take effect unless
28 approved by the people at the general election to be held in November
29 2020 and, in such case, will take effect on the date of the official
30 declaration of the vote thereon by the governor.

31 (2) Section 4 of this act takes effect only if House Bill 19-1172
32 becomes law, in which case section 4 takes effect October 1, 2019."

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