

## Gavin Tenold suggested modification of Residential Energy petition 033/040

### Explanation of proposed changes:

- The TAG approved an ERI path including on-site renewables energy, with the intent that the amount of energy reduced by on-site renewables parallels the Prescriptive path.
- The TAG also approved a 0.5 credit increase to the Prescriptive path for on-site renewables
- Circumstances will arise where ERI modelers will be asked to produce ERI reports evidencing larger arrays; for example, when an Owner or Developer is trying to achieve net-zero.
- It is therefore important that the below change be adopted to prevent permits being issued where the ERI software is recognizing more solar energy production than allowed by the Prescriptive Path.

### Proposed code language:

**R408.7.2.1 Proposed compliance report for permit application.** Compliance reports submitted with the application for a building permit shall include the following:

1. Building street address, or other *building site* identification.
2. Declare *ERI* on title page and building plans.
3. The name of the individual performing the analysis and generating the compliance report.
4. The name and version of the compliance software tool.
5. Documentation of all inputs entered into the software used to produce the results for the *ERI reference design* and the *ERI rated design*.
6. A certificate indicating that the proposed design has an *ERI* less than or equal to the appropriate score indicated in Table R408.5 when compared to the *ERI reference design*. The certificate shall document the building component energy specifications that are included in the calculation, including: component level insulation *R-values* or *U-factors*; assumed *duct system* and *building thermal envelope* air leakage testing results; and the type and rated efficiencies of proposed heating, cooling, mechanical *ventilation* and service water-heating equipment to be installed. Where *on-site renewable energy* systems will be installed, the certificate shall report the type and production size of the proposed system.
7. When a site-specific report is not generated, the proposed design shall be based on the worst-case orientation and configuration of the rated *dwelling unit*.
8. In the event that an ERI rated design contains an on-site renewable energy system producing more than 6,000 kWh annually, the rater shall provide the code official with a separate ERI compliance report using the maximum allowed renewable generation in accordance with Section R408.5.