



## Change Request Ruling

**Change Request:** Net Zero Ready qualifications. Solar PV Ready Checklist / PV efficiency and modelling requirements.

**ID #:** CR-000006

**Submitted By:** Matthew Salkeld

**Submitted On:** January 12, 2018

**Ruling Date:** January 15, 2018

**Ruling:** **Change Request Declined.** Due to the changing market and variances in availability and costs, builders are encouraged to work directly with a PV Professional for the design/pricing that works best at the time of modelling.

**Reason for Change Request and Recommended Alternative:** 1. The PV panel that is selected for modelling a Net Zero Ready home should be readily available in the market local to the builder. For example we discovered that 17% efficient modules are readily available and at a reasonable cost; 19% modules are available in Canada but in short supply and expensive; and 22% modules are currently available only in the USA. Therefore we propose the Net Zero Ready standard include a default PV efficiency of 17% for modelling. An EA may also choose a higher performing PV module but would be required to show enough due diligence in the form of a sign-off that a local PV contractor was engaged for consultation, and the builder was also consulted and agreed. This confirmation could be in the form of a letter or quotation from the local PV supplier. There is a proportionally high cost premium on the most efficient PV modules and that additional cost may not justify the incremental gain in efficiency. The builder would likely want to ensure that the Net Zero Ready home can be converted in future to a Net Zero Home at a market competitive and reasonable cost.

**Additional Comments / Actions:** *The NRCAN PV Ready Guideline has some verbiage that will provide some guidance, and the CHBA is looking into developing a list of PV Professionals (and energy management systems) that have been used by participating builders.*