

Interconnection of electric power production sources:

OESC Requirements

Distribution Company Awareness

There have been concerns from some Electrical Distributors regarding issues involving single phase inverters on three phase distributed generation systems. Some of these concerns are lack of protection against phase failure and voltage imbalance, exclusion of sensing devices for system stability and imbalanced generation.

This bulletin is to inform the Electrical Distributors of the existing Ontario Electrical Safety Code (OESC) requirements (Rules 64-110, 84-008, 84-014 and 84-018) to provide sensing and protection devices against loss of utility or electric power production source voltage and other devices necessary for system stability.

Further clarifications to OESC Section 64 and 84 requirements are indicated in OESC Bulletin 84-1-* "Interconnection of electric power production sources," available at the following link:

<https://esasafe.com/electrical-products/bulletins/>

ESA Recommends

Electrical Distributors should issue a confirmation letter to the installer upon verification of all supply authority requirements have been met. ESA will request the confirmation letter from the installer before issuing a Certificate of Acceptance.

Note: A Certificate of Acceptance is a notice sent to the Notification Applicant (installer) that the work as described on the notification has been deemed accepted by ESA.