



New Energy Source (ES) Classifications

New Energy Sources (ES) have been introduced into the Australian and New Zealand market place which is set to be picked up by *AS/CA S009 Installation requirements for customer cabling (Wiring Rules)* due out in the next few weeks for public comment.

The old voltage classifications of SELV, ELV, TNV, limited current circuits and LV telecommunications will be replaced by ES1, ES2 and ES3 which are defined within *AS/NZS 62368.1 Audio/video information and communication technology equipment Part 1: Safety requirements*

ES1 is either voltage limited or current limited.

ES2 is either voltage limited or current limited, at a higher level than ES1. Generally, ES2 is considered as non-hazardous voltage and is expected to supply up to 100 W under normal operation and single fault conditions.

ES3 has no current limit and no voltage limit- *AS/CA S009* will need to address this implementation. Examples of ES3 include RFT circuits, line powered HDSLx, SDHSLx, VDSLx and G.fast

LV telecommunication circuits fall within the ES3 classification and as such are deemed to be hazardous.