

# Policy Update Newsletter

July 2018





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Ref	Issue	Title
CP333 Policy Instruction		Policy Instruction CP333-180729

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Summary	<p>This Policy Instruction introduces the concept of Global Earthing System into the design of earth installations for distribution substations. This simplifies the design process for new substations in urban and built up environments. The Policy Instruction provides step by step guidance to check if the new site is suitable for the application of GES. <b>It is essential standard ENWL earth designs are used for the installation.</b></p> <p>The basic concept is the new substation is connecting onto a large, existing earth network comprising steel pipes, other substation earths, and other metallic structures.</p> <p>Confirmation that the local ground resistivity is <math>&lt;300\Omega\text{m}</math> is required. ENWL chose to determine this value by using data from the British Geological Survey or historic measurements from the locality, but it is also acceptable to take new measurements at site.</p> <p>Other criteria must also be satisfied. These are detailed in the Policy Instruction. The information can be obtained from the Long Term development Statement on ENWL's website.</p> <p>A final measurement of the substation earth is required after installation. This must be below a set limit for the installation to be safe. If the criteria within the Policy Instruction have been followed, it is expected this measured value will be below the acceptable limit.</p> <p>It is anticipated the GES method will be most suitable in cities and large towns. It will generally not be suitable for rural connections.</p> <p>Standard ENWL designs are provided on drawings:</p> <ul style="list-style-type: none"><li>a. ESL-900-350-002 Unit substation in GRP</li><li>b. ESL-900-350-016 HV Metered in GRP</li><li>c. ESL-900-350-014 Extensible switchgear in GRP</li></ul>
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