

Annex 9: Proposed Legal Text Changes Post CAC

Definition consulted on as part of Code Administrator Consultation:

Internal Voltage Source or IVS	<p>For a GBGF-S, a real magnetic field, that rotates synchronously with the System Frequency under normal operating conditions, which as a consequence induces an internal voltage (which is often referred to as the Electro Motive Force (EMF)) in the stationary generator winding that has a real impedance.</p> <p>In a GBGF-I, switched power electronic devices are used to produce a voltage waveform, with harmonics, that has a fundamental rotational component called the Internal Voltage Source (IVS) that rotates synchronously with the System Frequency under normal operating conditions.</p> <p>For a GBGF-I there must be an impedance with only real physical values, between the Internal Voltage Source and the Grid Entry Point or User System Entry Point.</p> <p><u>For the avoidance of doubt, the impedance between the Internal Voltage Source and the Grid Entry Point or User System Entry Point could be virtual, real, or a combination of the two.</u></p> <p>For the avoidance of doubt, a virtual impedance, is not permitted in GBGF-I.</p>
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During the Code Administrator Consultation, a respondent suggested that the definition should be amended as follows, to remove a comma after a section of deleted text:

Internal Voltage Source or IVS	<p>For a GBGF-S, a real magnetic field, that rotates synchronously with the System Frequency under normal operating conditions, which as a consequence induces an internal voltage (which is often referred to as the Electro Motive Force (EMF)) in the stationary generator winding that has a real impedance.</p> <p>In a GBGF-I, switched power electronic devices are used to produce a voltage waveform, with harmonics, that has a fundamental rotational component called the Internal Voltage Source (IVS) that rotates synchronously with the System Frequency under normal operating conditions.</p> <p>For a GBGF-I there must be an impedance with only real physical values, between the Internal Voltage Source and the Grid Entry Point or User System Entry Point.</p> <p><u>For the avoidance of doubt, the impedance between the Internal Voltage Source and the Grid Entry Point or User System Entry Point could be virtual, real, or a combination of the two.</u></p> <p>For the avoidance of doubt, a virtual impedance, is not permitted in GBGF-I.</p>
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