

## **Self Determination of Point of Connection and Self Design Approval Criteria**

Following the April 2016 revision of the Competition in Connections Code of Practice, in line with paragraphs 4.12.1, 4.12.2 and 4.16.3 this document species the circumstances where an Independent Connections Provider (ICP) is able to self-determine their own Point of Connection and self-approve their own designs in Northern Powergrid's licence areas.

### **4.12.1 Instances where an ICP can technically self-determine their own Point of Connection**

<b>Relevant Market Segment (RMS)</b>	<b>Self- determination of PoC available (Yes/No)</b>	<b>Comment</b>
LV demand	Yes	Up to 250kVA
HV demand	Yes	Up to 3,000kVA
HV/EHV demand	No	Reference to NPg needs to be made
EHV/132kV demand	No	Reference to NPg needs to be made
DG LV	Yes	Up to a maximum of 190kW Reference to NPg required above this capacity
DG HV/EHV	Yes	Up to a maximum of 190kW Reference to NPg required above this capacity.
UMS LA	Yes	The ICP must follow the design matrix as provided within document IMP/001/007
UMS Other	Yes	As above
UMS PFI	Yes	As above

**Criteria** - Northern Powergrid require any ICP wishing to undertake its own determination of PoC to have the relevant NERs accreditation (Self- Determination of Point of Connection). For further information, please refer to our guidance document IMP/001/010/001, ICP Self-Select Point of Connection limits, Design Considerations and ICP Design Approval Requirements, and IMP 001/007, CoP for PoC assessment using standard design rules for full details of the above.

#### 4.12.2 Instances where an ICP can self-determine their own Point of Connection utilising Northern Powergrids Standard Design Matrix

Criteria	Measurement	Comment
Connection capacity	60 kVA	Up to a maximum of 20 non-electrical heated housing plots without either EV chargers or PV installations. Maximum capacity for a single 3 phase supply is 3x80A@230V = 55kW.
distance to substation for metered connections	400 metres where wf300 340metres where wf185 190metres where wf95	The distances are the maximums where each cable type is continuous from the substation to the point of connection. Equivalent circuit lengths will need to be calculated if the feeder contains cables of differing CSA's
distance to substation for unmetered connections	510 metres where wf300 430metres where wf185 240metres where wf95	As above comment. Longer lengths permitted over metered connections due to lower overall loads.
service cable length	30 metres for metered connections using 35mm Al/Cu  20 metres for unmetered supplies using 16mm stranded Cu.	All metered connections must use 35mm Al/Cu service cable.  All connections for unmetered supplies into 25A cut outs must use 16mmCu stranded cable. 25mm or 35mm Al?Cu cables not permitted due to shrink back issues.
transformer size	315kVA for up to 6 single domestic connections or 20 unmetered connections.  >315kVA for all other connections.	
asset types excluded	Overhead lines Triple Concentric LV cables	

**Criteria** - Northern Powergrid require any ICP wishing to undertake its own determination of PoC to have the relevant NERS accreditation (Self- Determination of Point of Connection). Where an ICP uses the standard design matrix to assess a PoC for a new extension asset and does not hold this NERS accreditation, NPg will still be required to approve the ICP's design. Please see IMP/001/007, CoP for PoC assessment using standard design rules for both single and 3 phase low voltage connections, for full details on the above.

#### 4.16.3 Table One - The market segments where the ICP is able to self-approve its designs

Relevant Market Segment (RMS)	Self-approval of designs available (Yes/No)	Comment
LV demand	Yes	Up to 250kVA
HV demand	Yes	Up to 3,000kVA
HVEHV demand	No	Reference to NPg needs to be made.
EHV132 demand	No	Reference to NPg needs to be made.
DG LV	Yes	Up to 190kW
DG HVEHV	Yes	Up to 190kW
UMS LA	Yes	Any design must be compliant with NPg CoP IMP/001/007
UMS Other	Yes	As above
UMS PFI	Yes	As above

**Criteria** - Northern Powergrid require any ICP wishing to approve its own designs to hold the relevant NERs accreditation (Electrical Design of Distribution Networks)

**4.16.3 Table Two – Qualifying criteria that will apply to allow an ICP to move between the different levels of design approval inspection**

Level	Criteria
1	Full Design Approvals can be undertaken for the categories as per table 1. These will be inspected as per our published inspection tables at Level 1 rates.
2	Full Design Approvals can be undertaken for the categories as per table 1. These will be inspected as per our published inspection tables at Level 2 rates.
3	Full Design Approvals can be undertaken for the categories as per table 1. These will be inspected as per our published inspection tables at Level 3 rates.

For further information, please contact our dedicated Connections Input Services team on **0113 241 5245** or email [cinc.connections@northernpowergrid.com](mailto:cinc.connections@northernpowergrid.com)