

Expert group: Mixed customer sites with generation, demand and storage, and definition of system users (EG MCS)

Chair: ENTSO-E, Robert Wilson

Vice-Chair: DSO representative, name tbc

Problem Statement

On 11 June 2018, the Grid Connection European Stakeholder Committee (GC ESC) decided to establish an Expert Group (EG) to clarify the requirements on mixed customer sites (MCS), where these could be a combination of generation, demand and/or storage facilities. The creation of this EG was proposed by ENTSO-E to elaborate on connection network code (CNC) issues which had been raised by stakeholders during CNC implementation. The ENTSO-E proposal was based on the findings of a stakeholder survey to identify priority topics.

Target (objectives)

The objectives of the EG MCS are:

- to provide clarification regarding the application of the Network Code on Requirements for Generators (NC RfG) Demand Connection Code (NC DC) and HVDC (NC HVDC) to MCS with generation, demand and storage (to the extent that storage might in future be classed as separate from generation or demand);
- identify differences and similarities of mixed customer sites which are CDSOs and non-CDSOs;
- in the context of MCS:
 - o assess types of MCSs to be considered;
 - o to assess the MCS case against the current definition of system users, found in the Directive 2009/72/EC;
 - o to review the definitions of Synchronous Power Generating Module (SPGM)/Power Park Module (PPM); and
 - o to provide clarification in terms of the type A-D categorisation or applicability of RfG for mixed or novel sites addressing cases such as:
 - mixed generation only sites where a small PGM (e.g. PV) is installed within the connection site of a larger generator;
 - small PGMs connected to a ≥ 110 kV network due to unavailability of lower voltage connection points
 - combined heat and power generating facilities connected at ≥ 110 kV (where type A-C would be excluded from certain RfG requirements)

Task description

Mixed customer sites with generation and demand are subject to CNC (NC RfG, NC HVDC and NC DC). Furthermore, as set out by Article 6 of NC RfG and Article 5 of NC DC, specific provisions apply to industrial sites.

Feedback received from stakeholders has highlighted questions relating to this type of site, especially regarding the classification of onsite generation. The EG MSC is tasked with the following actions:

Commented [UG1]: Is this energy storage as defined in the recast of the Electricity Directive?

Commented [UG2]: I miss to see the mixed customer site case here - this is a derogation issue as far as I'm concern. I suspect the network meant here is not public (has other customers as well), but this needs to be reflected in the text.

- compile and categorise questions from stakeholders relating to MCS;
- identify possible solutions to questions regarding the application of current CNC requirements; and
- investigate potential improvements to CNCs for a better application of the CNCs to the MCS.

To meet these goals, the EG MSC should be guided by the objectives of the 3rd Energy Package and take into account existing national examples and national grid code provisions.

Deliverables

A report with identified solutions to stakeholder's questions including proposals, where applicable, of improvements to CNCs regarding mixed customer sites.

Timing

6 months from 1 October 2018.

Team

The following nominations to participate in EG MCS have been received (name and association):

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| • Robert Wilson | ENTSO-E |
| • Pietro Meloni | ENTSO-E |
| • Karel Magi (substitute) | ENTSO-E |
| • Ioannis Theologitis | ENTSO-E |
| • Eric Dekinderen | VGB |
| • Thomas Lescarret | VGB |
| • Jacek Aronowski | EASE |
| • Manuel Weindorf | EASE |
| • Fernando Morales | EASE |
| • Rafaël Jahn | EASE |
| • Jelle Smekens | EASE |
| • Brittney Elzare | EASE |
| • Michael Van Bossuyt | IFIEC |
| • Maxime Buquet | EUTURBINES |
| • Luca Guenzi | EUTURBINES |
| • Magdalena Kurz | EUTURBINES |
| • Alberto Bridi | CEDEC |
| • David Vangulick | CEDEC |
| • Paul de Wit | CEDEC |
| • Marc Malbrancke (substitute) | CEDEC |
| • Gaetan Claeys | EUGINE |
| • Mike Kay | GEODE |

Commented [UG3]: EU associations participation shall be limited to 3+1 participants so as to achieve a balanced representation

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|-----------------------------|----------------------|
| • Garth Graham | EURELECTRIC |
| • Karol O’Kane (substitute) | EURELECTRIC |
| • Pat Dowling | EURELECTRIC |
| • Mahder Hoof | EURELECTRIC |
| • Nelida Santos | EDSO for Smart Grids |
| • Manuel Jaekel | EDSO for Smart Grids |
| • Juan Marco | EDSO for Smart Grids |
| • Nikolas Schmitz | BNetzA |

Estimated resources

- monthly webinars;
- 2 physical meetings; and
- total commitment of up to 10 days per member.

Target audience

- GC ESC
- Relevant and/or interested stakeholders on the Connection Network Codes