November 2022

Annex concerning grid connection of demand facilities to the medium- and high-voltage grid

(> 1 kV)

Version 1.2

Version log

|  |  |  |
| --- | --- | --- |
| **Version** | **Change** | **Date** |
| 1.0 | Created on the basis of the approved technical conditions from the grid companies and Energinet. | 11-07-2019 |
| 1.1 | Updating of annex. | 26-02-2022 |
| 1.2 | Layout update. | 18-11-2022 |

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1. Technical documentation of demand units delivering demand response

The documentation is completed with data for the demand unit and sent to the electricity supply undertaking.

* + 1. Identification

|  |  |
| --- | --- |
| Unit: | Description of the demand unit: |
| Installation number: |  |
| Plant owner name and address: |  |
| Plant owner tel. no.: |  |
| Plant owner email address: |  |
| Contact person at the plant: |  |
| Voltage (rated): |  |
| Nominal active power (Pn): |  |
| Nominal current (In): |  |
| Minimum active power (Pmin): |  |
| Maximum active power (Pmax): |  |
| Active power bid (Pbid): |  |

* 1. Normal operating conditions

|  |  |
| --- | --- |
| Can the demand unit be started and maintain continuous operation under normal operating conditions, only limited by the protection settings?  Where can documentation showing that the requirements are fulfilled be found? | Yes  No |

* 1. Abnormal operating conditions

|  |  |
| --- | --- |
| Can the demand unit maintain continuous operation in the operating conditions specified in section 5.1.2?  Where can documentation showing that the requirements are fulfilled be found? | Yes  No |

* 1. Grid protection

|  |  |
| --- | --- |
| What has been agreed concerning protection, cf. section 5.5? |  |

* 1. Demand response to the electricity supply undertaking

(To be completed only if demand response are to be delivered to the electricity supply undertaking)

|  |  |
| --- | --- |
| The demand unit will deliver the following demand response:  \*If other, describe the service: | Limited grid access  Other\* |

* 1. Demand response to transmission system operator

(To be completed only if demand response are to be delivered to the transmission system operator)

|  |  |
| --- | --- |
| The demand unit will deliver the following demand response:  \*If other, describe the service: | FCR  FCR-N  FCR-D  FRR  mFRR  aFRR  Other\* |

* 1. Maximum active power regulation ramp rates

|  |  |
| --- | --- |
| What are the maximum upward and downward regulation ramp rates that the demand unit can deliver? | Upward regulation - Pn/min.  \_\_\_\_\_\_\_\_\_\_\_\_\_% of Pn/\_\_\_  Downward regulation - Pn/min.  \_\_\_\_\_\_\_\_\_\_\_\_\_% of Pn/\_\_\_ |

* 1. Signature

|  |  |
| --- | --- |
| Date of commissioning: |  |
| Company: |  |
| Commissioning manager: |  |
| Signature (commissioning manager): |  |