

**ENERGINET**

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Date:
29 September 2021

Author:
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GRID CONNECTION AGREEMENT [FACILITY NAME]

On Establishment of Grid Connection of the Consumer's Demand Facility and its connection to and use of the Transmission System in substation [substation name].

Please note: This translation of the original Danish text is for informational purposes only and is not a substitute for the official Danish text. The English text is not legally binding and offers no interpretation on the Danish text. In case of inconsistency, the Danish version applies.

This Grid Connection Agreement is entered into between:

[Consumer name]
[Street name and no.]
[Postcode and town/city]
CVR: [CVR]
(Hereinafter "the Consumer")

and

Energinet System Operator A/S
Tonne Kjærsvvej 65
7000 Fredericia
CVR: 39314959
(Hereinafter 'Energinet Systemansvar')

and

Energinet Electricity Transmission A/S
Tonne Kjærsvvej 65
7000 Fredericia
CVR: 39314878
(Hereinafter 'Energinet Eltransmission')

In the following, Energinet Systemansvar and Energinet Eltransmission are collectively referred to as "Energinet" and constitute one joint party in the Grid Connection Agreement from the point of view of the Consumer.

1. Background and objective

The Consumer has requested to establish a [XXX] MW [facility type] (the Demand Facility) near [location of Energinet substation]. The demand facility will be established as [X electric boilers of XX MW/X data processing centres of approx. XX MW] on [plot of land no. XX].

In order to meet the Consumer's request for connection to the Electricity Supply System, it is necessary to expand substation [substation name]. The Demand Facility will be connected at the [XXX] kV voltage level.

[or]

In order to meet the Consumer's request for connection to the Electricity Supply System, it is necessary to expand the Transmission System, including establishing a new substation, referred to as substation [substation name]. The Demand Facility will be connected at the [XXX] kV voltage level.

Energinet expects to have established grid connection for the Demand Facility by [month, year], after which the Demand Facility can be connected.

The complete Grid Connection Agreement consists of this Agreement, Grid Connection Terms and Conditions and Establishment Terms and Conditions and must be interpreted in its entirety. The rights and obligations stated in the Grid Connection Agreement are underpinned by and described in more detail in the appendices to the Grid Connection Agreement. If there are discrepancies between this Agreement and the Terms and Conditions, this Agreement will prevail. If there are discrepancies between the Grid Connection Terms and Conditions and the Establishment Terms and Conditions, the Establishment Terms and Conditions will prevail for the duration of the Grid Connection Establishment phase, and the Grid Connection Terms and Conditions will prevail when the Grid Connection Establishment phase has been completed. If there are discrepancies between the Agreement/Terms and Conditions and its appendices, the Agreement/Terms and Conditions will prevail.

The purpose of the Terms and Conditions is to lay down the general terms, conditions, and principles that apply to the Consumer and the Demand Facility upon connection to the Transmission System. This Agreement lays down specific requirements and principles applicable to the Consumer and Demand Facility upon connection to the Transmission System.

1.1 Grid Connection Agreement documents

The Grid Connection Agreement comprises the following appendices:

Appendix 1: Terms and Conditions of Grid Connection for demand facilities, Rev. 1 of 29-09-2021 (doc. 18/06075-X).

- Appendix 1.1: Short-circuit levels (doc. XX/XXXXX-XX)
- Appendix 1.2: Power quality requirements and impedance characteristics (doc. XX/XXXXX-XX)
- Appendix 1.3: Specific technical conditions and requirements (doc. XX/XXXXX-XX)
- Appendix 1.4: Expansion plan (doc. XX/XXXXX-XX).

Appendix 2: Terms and Conditions of Establishment of Grid Connection for demand facilities, Rev. 1 of 29-09-2021 (doc. 18/06075-X).

- Appendix 2.1: Final design and layout (doc. XX/XXXXX-XX)
- Appendix 2.2: Hardwired signal exchange (doc. XX/XXXXX-XX) [may be enclosed at a later stage]
- Appendix 2.3: Establishment time schedule (doc. XX/XXXXX-XX)
- Appendix 2.4: Establishment budget XX/XXXXX-XX)
- Appendix 2.5: Contacts (doc. XX/XXXXX-XX)
- Appendix 2.6: Provision of security (doc. XX/XXXXX-XX)
- Appendix 2.7: Transfer of land (doc. XX/XXXXX-XX) [if relevant].

Appendix 3: Grid Connection notifications

- Appendix 3.1: EON (Energisation Operational Notification) (enclosed when issued)
- Appendix 3.2: ION (Interim Operational Notification) (enclosed when issued)
- Appendix 3.3: FON (Final Operational Notification) (enclosed when issued).

Appendix 4: Interconnection agreement (attached when entered into) [may be concluded at a later stage].

Appendix 5: Collaboration agreement on operation (enclosed when entered into) [may be concluded at a later stage].

2. Consumer's maximum power exchange (capacity)

The Demand Facility has the following maximum power available from the Transmission System when the Demand Facility is fully established:

- Consumption: XXX MW
- Reserve production power: XXX MW. [if relevant]

The above power values are based on the size and characteristics of the Demand Facility as stated by the Consumer.

[the following will be deleted if the Demand Facility is fully established, and Appendix 1.4 is no longer applicable]

The Consumer has informed Energinet of an expansion plan as specified in Appendix 1.4. The maximum power available in the Transmission System for the Demand Facility is stated in Appendix 1.4, while the Consumer establishes the Demand Facility until it is fully established and reaches the above capacity. The Consumer expects the Demand Facility to be fully established by [month, year].

[Any special conditions, e.g. interruptible capacity or specific grid inadequacy, power inadequacy, and robustness conditions]

3. Specific conditions

This section describes the specific conditions that apply between the Parties.

3.1 Point of connection and compliance with Technical Requirements

The point of connection is in substation [substation name] at [voltage level] kV.

The Demand Facility must comply with the Technical Requirements for the [voltage level] kV busbar.

3.2 Ownership, operation, and maintenance boundaries

The ownership boundary is [location of boundary].

The operation and maintenance boundaries follow the ownership boundary.

[or]

The operation boundary is [location of boundary].

The maintenance boundary is [location of boundary].

3.3 Key technical requirements for the Demand Facility at the time of entering into the Grid Connection Agreement

At the time of entering into the Grid Connection Agreement, the following legislation, regulation, and specific technical requirements apply, among other things, to the Demand Facility:

- DCC - Commission Regulation (EU) 2016/1388 of 17 August 2016 establishing a Network Code on Demand Connection (DCC), including the following appendices:
 - o Appendix 1: Requirements laid down pursuant to EU regulation 2016/1388 (DCC)
 - o Appendix 1A: POC Drawings
 - o Appendix 1B: Generic signal list
 - o Appendix 1D: Simulation model
 - o Appendix 1E: Appendix 1.E - Voltage quality for transmission-connected distribution systems and demand facilities

The Demand Facility is expected to be connected as a DCC category [X] demand facility.
- SO GL - Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation, including the following requirements, which are expected to be approved and apply to the Demand Facility:
 - o Regulation requirement 5.8.10 – Information exchange, generation, and demand
 - o Regulation requirement 5.8.12 – Information exchange, standards, protocols, etc.
- Technical regulation 5.3.4.1 Grid telegraph (Nettelegrafen), Rev. 1 (1 November 2016).
- Technical regulation 3.4.2 – Manual load-shedding of transmission-connected demand facilities, Rev. 0 (1 March 2021)

- NC ER - Commission Regulation (EU) 2017/2196 of 24 November 2017 establishing a network code on electricity emergency and restoration, including the following:
 - o System defence plan
 - o Restoration plan.

Under Article 3 in the Grid Connection Term and Conditions, the Demand Facility will always be subject to applicable legislation and regulation. This means that the Demand Facility may be subject to newer rules than those applicable at the time of entering into this Grid Connection Agreement and those stated above.

3.4 Manual load-shedding

The Consumer must have chosen a solution for manual load-shedding of the Demand Facility, cf. Technical Regulation 3.4.2.

The Consumer has chosen the following solution to comply with the requirements of Technical Regulation 3.4.2:

[The options are load-shedding in steps or full disconnection, see Article 2(1) and (2). If 'full disconnection' is chosen, it is moreover possible to decide whether the load-shedding equipment is placed on Energinet's or the Consumer's side of the transformer, see the guidelines for the regulation, section 2.3.2].

3.5 Automatic load shedding

[Demand facilities governed by the DCC must have automatic load shedding, cf. Article 19 (1)(a) in the DCC. Load shedding steps are specified in the defence plan, cf. Article 15 (5). If a facility cannot meet the stepwise load-shedding requirement due to a lack of technical properties, or if a facility has agreed with Energinet's emergency coordinator to shed load in another way than specified in the defence plan, this must be stated below.]

[Demand facilities in categories 1-5 in the DCC are subject to automatic load-shedding (LFDD), see the Defence Plan, Article 15 (5) and (10), as well as approved requirements, cf. DCC, Article 19(1) (a). Demand facilities in DCC category 4 can shed load in steps of up to 60 MW. Demand facilities where stepwise load-shedding is not technically feasible, must use full disconnection]

3.6 Grid Connection Establishment

The Consumer's expected Grid Connection Establishment costs: [amount] DKK.

The Establishment Budget is specified in detail in Appendix 2.4.

All prices stated in the Grid Connection Agreement are exclusive of applicable VAT.

The Establishment Budget is an estimate, and the Consumer must pay the actual costs in accordance with the principles laid down in the Establishment Terms and Conditions and applicable legislation and regulation.

3.7 Other specific conditions

[Other specific conditions which do not appear from the Terms and Conditions or Appendices or are central (new sections such as 3.X etc.)]

4. Signatures

The grid connection agreement will come into force when the parties have signed it.

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By signing this Agreement, Energinet confirms that the Grid Connection will be established and that Energinet's obligations will be performed in accordance with the conditions, terms, and principles of this Grid Connection Agreement, with appurtenant appendices, as well as the legislation and other regulations applicable from time to time.

Similarly, by signing this Agreement, the Consumer confirms the intent to establish the Demand Facility for grid connection and subsequently use the Transmission System in accordance with the terms, conditions, and principles specified in the Grid Connection Agreement, with appurtenant appendices, as well as the legislation and other regulations applicable from time to time.

Place:

Date:

Place:

Date:

Company name

First name, last name

Title

Company name

First name, last name

Title

Place:

Date:

Place:

Date:

Energinet Eltransmission A/S

Henrik Riis Nielsen

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Jeanette Bodi Sørensen

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