Dated 2018 2019

EIRGRID PLC (1)
and
[SERVICE PROVIDER] (2)

DS3 SYSTEM SERVICES FIXED CONTRACTS AGREEMENT

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# **BETWEEN:**

- (1) **EirGrid plc**, a limited liability company incorporated under the laws of Ireland with registered number 338522 and having its registered office at The Oval, 160 Shelbourne Road, Dublin 4 (hereinafter called the "**Company**"); and
- (2) Name and registered address of Service Provider with registered Number xxxxxx (hereinafter called the "Service Provider")

#### WHEREAS:

- (A) The Company has responsibility amongst other duties for the operation of the Transmission System under the TSO Licence.
- (B) The Company's duties include the procurement of DS3 System Services.
- (C) Following a competitive procurement process, the Service Provider is now entering into this Agreement in order to provide the Company with <a href="mailto:DS3-SystemContracted">DS3-SystemContracted</a> Services from the Providing Unit subject to and in accordance with the provisions set out herein.

#### IT IS HEREBY AGREED as follows:

# 1 Definitions and Interpretation

- 1.1 In this Agreement (including the recitals hereto), except where the context otherwise requires, the words and expressions set out in Schedule 1 shall have the meanings ascribed to them therein.
- 1.2 In this Agreement, unless the context requires otherwise, any reference to:
  - 1.2.1 the singular shall include the plural and vice versa;
  - 1.2.2 any gender reference shall be deemed to include references to the masculine, feminine and neuter genders;
  - 1.2.3 this "Agreement" shall mean this Agreement and its Schedules;

- 1.2.4 "writing" or "written" shall include all methods of reproducing words in a legible and non-transitory form;
- 1.2.5 any words importing persons or parties shall include individuals, firms and corporations, joint ventures, trusts, unincorporated associations and organisations, partnerships and any other entity, in each case whether or not having a separate legal personality and any references to persons shall include their legal successors and permitted assignees;
- 1.2.6 legislation, regulations, Directives, orders, instruments, codes or other enactments shall include any amendments, modifications extensions, replacements or reenactments thereof then in force.
- 1.3 Unless otherwise specified:
  - 1.3.1 any reference in this Agreement to a "Clause" is a reference to a Clause contained in this Agreement;
  - 1.3.2 any reference to a "Schedule" is a reference to a Schedule to this Agreement;
  - 1.3.3 any reference to a "Section" is a reference to a Section of a Schedule to this Agreement;
  - 1.3.4 any reference to another agreement or document, or any deed or other instrument (including but not limited to statute, statutory instrument, the Grid Code, the Metering Code, the Network Codes, the Distribution Code or the Trading and Settlement Code) shall be construed as a reference to that other agreement, or document, deed or other instrument as the same may have been, or may from time to time be, amended, varied, supplemented, substituted or novated;
  - 1.3.5 any reference to a month or year shall be construed as reference to a calendar month or year, as the case may be;

- 1.3.6 the table of contents and Clause headings are inserted for ease of reference only and shall be ignored for the purpose of the construction of this Agreement;
- 1.3.7 all terms which have been defined in this Agreement shall have their initial letters in capital typescript whenever and wherever they appear in this Agreement; and
- 1.3.8 any reference to "including" shall be construed without limitation.
- 1.4 In the event of inconsistency between the provisions of this Agreement and the Grid Code, the Distribution Code, the Network Codes or the Metering Code (as the case may be), the provisions of the Grid Code, the Distribution Code, the Network Codes or the Metering Code (as the case may be) shall prevail to the extent of such inconsistency unless the contrary intention is explicit. For the avoidance of doubt, the Providing Unit must be both capable of operating in accordance with the Grid Code, the Distribution Code, the Network Codes and the Metering Code (as the case may be) and capable of operating in accordance with the provisions of this Agreement, but may be instructed to operate in either of these modes by the Company.
- 1.5 To the extent that the Service Provider is a party to the Trading and Settlement Code, if either Party reasonably believes that a conflict exists between any provision of this Agreement and the provisions of the Trading and Settlement Code, it shall notify the other Party of that belief and the Parties shall meet and discuss in good faith whether such a conflict exists, and if so whether amendments should be made to this Agreement to resolve the conflict (and if appropriate the nature of those amendments). If the Parties are in dispute as to whether a conflict exists, whether amendments should be made to this Agreement to resolve the conflict and/or the nature of those amendments, either Party shall be entitled to refer the dispute to the Regulatory Authority for determination (which determination shall be binding on the Parties). For the avoidance of doubt, the Parties agree that any amendment to this Agreement to resolve a conflict with the Trading and Settlement Code shall require the prior written approval of the Regulatory Authority.

# 2 Commencement and Duration of Agreement

2.1 Term of Agreement

- 2.1.1 Subject to Clause Clauses 2.1.2 and 2.3.1, this Agreement shall commence on the Effective Date and:
  - (a) where shall continue in full force and effect until the date of the day before the 6<sup>th</sup> anniversary of the earlier of the Go-Live Date is achieved before 1<sup>st</sup>

    September 2021, continue in full force and effect for six (6) years after the and the Target Go-Live Date unless terminated earlier in accordance with Clause 9; or

where the Go-Live Date is achieved after 1<sup>st</sup>-September 2021, continue in full force and effect until 31st August 2027 unless terminated earlier in accordance with Clause 9.

- (b) where the Go Live Date is not achieved, the Agreement will terminate six (6) months following the agreed Go-Live Date
- 2.1.2 If the commencement or completion of a procurement process in respect of a contract which the Company intends to use as a partial or total replacement for this Agreement is delayed due to a legal challenge (or threat of a legal challenge) or for any other reason whatsoever, The Company may, subject to the approval of the Regulatory Authority (if required) and the written consent of the Service Provider and subject to any other provisions as provided in this Agreement, extend the term of this Agreement for two additional time periods of up to eighteen (18) months each.

# 2.2 Survival of Rights on Termination

- 2.2.1 Termination of this Agreement shall not affect:
  - (a) any rights or obligations which may have accrued prior to such termination; or
  - (b) continuing obligations of each of the Parties under this Agreement which, according to this Agreement, are to continue after termination of this Agreement.

## 2.3 Conditions Precedent

- 2.3.1 The Parties' rights and obligations under this Agreement (save for those set out in Clauses 2.3.2, 7, 8, 12, 13, 14, 15 and 2.3.316) shall in all respects be conditional on the fulfilment by the Service Provider of its obligations under Clauses 2.3.2 and 2.3.3 by no later than the date falling eighteen (18) months after the Effective Date. This Agreement shall terminate on the date falling eighteen (18) months after the Effective Date if either of the conditions in Clauses 2.3.2 or 2.3.3 below is not fulfilled before then, 2.3.3, and 2.3.4.
- 2.3.2 On or prior to the earlier of (i) the Go-Live Date or (ii) the Target Go-Live Date, to the extent that the Service Provider participates in the Single Electricity Market, the Service Provider shall be a party to the TSC and to the extent that is required, the Service Provider shall be registered as the Participant (as defined in the TSC) for the Providing Unit under the TSC.
- 2.3.3 Prior to the Effective Date, the Service Provider shall have received a Connection Offer for the Providing Unit and shall provide a copy of it to the Company.
- 2.3.4 Prior to the Effective Date, the Service Provider shall have executed and provided to the Company the Performance Bond or alternative security as required by Clause 4.
- 2.3.5 The Company may terminate this Agreement on the Target Go-Live Date if the condition precedent set out in Clauses 2.3.2 is not fulfilled before that date.
- 2.3.6 This Agreement shall terminate on the date falling 2 days after the Effective Date if the condition precedent set out in Clause 2.3.3 is not fulfilled before that date.
- 2.3.7 This Agreement shall terminate on the date falling 2 days after the Effective Date if the condition precedent in Clause 2.3.4 is not fulfilled before that date.

#### 2.4 No Exclusivity

2.4.1 The Service Provider hereby acknowledges and agrees that, despite entering into this Agreement or the provision by it of any DS3 System Services under this Agreement, it has no exclusive right to make available and/or provide any DS3

- System Services to the Company and it has no exclusive right to provide any works, services, supplies or deliverables to the Company.
- 2.4.2 Subject to the terms of this Agreement, the Service Provider is the only party eligible to make available and/or to provide to the Company the DS3 System Services.

## 2.5 Availability of Services by from Go-Live Date

- 2.5.1 The DS3 System Services shall be provided in accordance with the terms, conditions and specifications of this Agreement from the Go-Live Date. This Agreement shall entitle the Service Provider to payment for making available the DS3 System Services—and Over-Frequency Response (OFR), as set out in Schedule 9 from the Go-Live Date.
- 2.5.2 Prior to the Company making any payment to the Service Provider for making DS3 System Services and OFR available, the Service Provider shall demonstrate, to the satisfaction of the Company, that the following conditions are satisfied:
  - a) The Providing Unit can provide the DS3 SystemContracted Services and OFR in accordance with Schedule 2, and;
  - b) The Service Provider has made the DS3 SystemContracted Services and OFR available to the Company in accordance with this Agreement.

# 2.6 Provision of Services

- 2.6.1 If the Company, during the term of the Agreement, has a requirement for any or all of the DS3 SystemContracted Services and OFR, the Company may require the immediate provision of the required DS3 System Services by the Service Provider.
- 2.6.2 The provision of such DS3 SystemContracted Services and OFR shall be in accordance with the applicable parameters, terms and conditions set out in this Agreement, and/or any instructions as may otherwise be issued by the Company under this Agreement.

- 3 Provision and Purchase of DS3 SystemContracted Services and Over-Frequency Response
  - 3.1 Duty to provide <a href="DS3 SystemContracted">DS3 SystemContracted</a> Services and OFR in accordance with the applicable Operating Parameters
    - 3.1.1 In consideration of the Company's agreement to pay the DS3 System Services Payments to the Service Provider on the terms and subject to the conditions of this Agreement and its applicable Operating Parameters, the Service Provider shall at all times during the term of, and subject to, this Agreement maintain, repair, fuel and operate the Providing Unit as required by Good Industry Practice and any legal requirements in order to provide the DS3 SystemContracted Services and OFR.
    - 3.1.2 The Service Provider shall reasonably endeavour not to issue or allow to remain outstanding an Availability Notice, a Technical Parameters Notice or an Additional Grid Code Characteristics Notice which declares the Availability, applicable Technical Parameters or additional technical data (respectively) of a Providing Unit at levels or values inferior to the applicable Operating Parameters of the Providing Unit in accordance with Schedule 9 except:
      - (i) during periods of Scheduled Outage or forced outage or otherwise with the consent of the Company; or
      - (ii) where necessary to avoid an imminent risk of injury to persons or material damage to property (including the Providing Unit); or
      - (iii) where it is not lawful for the Service Provider to operate the Providing Unit; or
      - (iv) to the extent that the Service Provider is affected by Force Majeure; or
      - (v) in the event of a test of the Providing Unit under OC10 of the Grid Code or an Operational Test under OC8 of the Grid Code,

provided that this Clause 3.1.2 shall not require the Service Provider to declare levels or values better than those specified in Schedule 9.

- 3.2 Compliance with the Grid Code, Distribution Code, Network Codes, and Protocol
  - 3.2.1 The Service Provider shall, during the term of this Agreement, comply with the Grid Code, Distribution Code, the Network Codes and the Protocol as applicable as it relates to the provision of the DS3 SystemContracted Services and OFR, (including declaring to the Company any inability to comply with the applicable Operating Parameters), subject to any derogations granted to the Service Provider by the Regulatory Authority.

# 3.3 Dispatch Instructions

- 3.3.1 The Service Provider shall, subject to Clause 3.4, comply with the terms of all Dispatch Instructions relating to the <a href="https://doi.org/10.25/2016/bis.25/2016/bi
- 3.3.2 The Company shall limit the number of Dispatch Instructions to ten per Calendar

  Year, unless the Dispatch Instruction is issued in response to, or within 20

  minutes of, a System Frequency value below the Under-Frequency Reserve

  Trigger or above the OFR Trigger defined in Schedule 9, except with the prior
  written agreement of both Parties.

Where the Go-Live date or contract end date occurs within a Calendar Year, these 10 Dispatch Instructions shall be pro-rated to the proportion of the Calendar Year for which the Providing Unit is contracted to provide DS3 System Services under this Agreement. [this clause can be removed by request from Service Provider]

## 3.4 TSC

- 3.4.1 To the extent that the Service Provider is a party to the TSC, nothing in this Agreement shall prevent the Service Provider from operating the Providing Unit in such a manner so as to comply with its obligations under the TSC.
- 3.4.2 The Service Provider shall provide Technical Offer Data to the Company in accordance with the TSC. For the avoidance of doubt, this Clause 3.4.2 shall apply regardless of whether or not the Service Provider is a party to the TSC. Such Technical Offer Data will be subject to validation by the Company.

## 3.5 Planned Maintenance Scheduled Outages

- 3.5.1 The Service Provider shall, without limitation to its obligations under Clause 3.2, plan its maintenance requirements including outage plans for the Providing Unit in accordance with Good Industry Practice and in accordance with Clause 3.1.2.
- 3.5.2 The Service Provider shall, without limitation to its obligations under Clause 3.2, have up to five days each year from the Go-Live Date for the purposes of planned maintenance of the Providing Unit, for which the Providing Unit will not be treated as unavailable for For the purposes of calculating the Performance Availability Performance Scalar in accordance with the calculation described in Schedule 2-, the Providing Unit will not be treated as unavailable for any Scheduled Outage provided that Scheduled Outage does not lead to the Providing Unit's Scheduled Outage Rate being above 1.4% for that Calendar Year.

In the case where the Scheduled Outage allowance of 1.4% is not fully used in a Calendar Year, the unused allowance may be added to the allowance of the next consecutive Calendar Year.

# **4** Performance Security

# 4.1 Performance Security

- 4.1.1 The Service Provider acknowledges that it is important for the Company that the

  Contracted Services are commenced on or prior to the Target Go Live Date and
  that late commencement of the Contracted Services would have a detrimental
  effect on the business of the Company.
- Subject to Clauses 4.3 and 4.4, the Service Provider shall give at least ten Business

  Days' noticeprocure the execution and delivery by a bond provider with an Approved Credit Rating to the Company of its intention to carry out planned maintenance.

## 4 Bonding Arrangements

# 4.1 On Demanda Performance Bond

- 4.1.14.1.2 The Service Provider has executed and provided to the Company in the Performance Bond as form set out in Schedule 4110 on or prior to the date of this Agreement.
- 4.1.2 The Performance Bond Amount shall become payable to the Company in circumstances where:

#### the Company considers that

- 4.1.3 The Service Provider shall use best endeavours to achieve each Performance

  Milestone and Additional Reporting Milestone by the relevant Milestone

  Deadline, as set out in Schedule 4.
- 4.1.4 The Service Provider shall provide Implementation Progress Reports to the TSO for each of the Performance Milestones and Additional Reporting Milestones outlined in Schedule 4, no later than 1 week following the relevant Milestone Deadline.

## 4.1.5 In the event that:

- (a) the Providing Unit does not satisfyachieve a Performance Milestone by the applicable Milestone Deadline, and in the Company's opinion, there is no reasonable prospect of completion of the Performance Milestone within six (6) months of the applicable Milestone Deadline; or; or
- (b) the Providing Unit fails to report to the TSOCompany the requiredcompletion information (as specified in Schedule 4) in relation to the Performance Milestone (as specified in the definition of relevant Performance Milestone); or
- (c) the Company considers that the Providing Unit or Service Provider Fails by the Go-Live Date, and in the Company's opinion there is no reasonable prospect of a Pass within twelve (12) months of the Go-Live Date; or
- (d) The development of the Providing Unit is abandoned; or
- (e) for any other reason the Providing Unit is not able to make available the DS3

  SystemContracted Services and OFR by the Go-Live Date.

The Company may make a demand for payment under the Performance Bond pursuant to its terms.

# 4.2 Effect of Company Delay and Force Majeure on Milestone Deadlines and Target Go-Live Date

- 4.1.34.2.1 Where the Service Provider is unable to complete a Performance Milestone by the applicable Milestone Deadline due to a delay occurring as a result of an act or omission of the TSO, the Performance Bond Amount shall not be payable due to this specific occurrence and the Company, future Milestone Deadline Deadlines and the Target Go-Live Date willshall be adjusted by agreement the Company to take into account the period of both parties and with approval from the Regulatory Authority Company's delay.
- 4.2.2 Subject to compliance with the obligations of the Service Provider set out in Clause 11, where the Providing Unit cannot make available DS3

  SystemContracted Services and OFR owing to Force Majeure, the Performance Bond Amount shall not be payable and the future Milestone DeadlineDeadlines and the Target Go-Live Date will be adjusted accordingly to allowby the Company to take into account the period of the Force Majeure event.

# 4.3 Other Security Arrangements

The Company at its discretion may deem appropriate, from time to time, other forms of security other than a Performance Bond with an Approved Credit Rating.

Alternative arrangements will be considered where:

- 4.3.1 the Service Provider's parent company has a suitable credit rating;
- 4.3.2 the Service Provider's parent company is of significant commercial standing; or
- 4.3.3 where the ownership structure is appropriate such as a semi state company.

These alternative arrangements can take the form of:

- (i) a Letter of Credit;
- (ii) a guarantee in such form as is reasonably acceptable to the Company issued by an entity with an Approved Credit Rating (a "Qualifying Guarantee");
- (ii)(iii) a cash deposit in an interest bearing account in the name of the Company at a bank that satisfies the criteria as outlined in the definition of Letter of Credit (an

<u>"Escrow Account"</u>). Interest on the Escrow Account will accrue for remedy.the benefit of the Service Provider, after the deduction of any bank charges or tax; or

(iv) another deposit arrangement deemed acceptable by the Company.

# 4.4 Substitute and Replacement Performance Security

- 4.4.1 If the bank issuing the Service Provider's Letter of Credit ceases to have the credit rating set out in the definition of Letter of Credit, the Service Provider shall forthwith procure the issue of a substitute Letter of Credit by a bank that has such a credit rating or procure the issue of a Qualifying Guarantee or place cash in the Escrow Account.
- 4.4.2 If the entity providing the Service Provider's Qualifying Guarantee ceases to have an Approved Credit Rating, the Service Provider shall forthwith procure a replacement Qualifying Guarantee from an entity with such a credit rating or procure a Letter of Credit or place cash in the Escrow Account.

# 5 Billing & Payment

# 5.1 Payment Rates

- 5.15.1 In consideration of the Service Provider making available and/or providing the DS3 System Service(s) to the Company in accordance with this Agreement, the Company shall pay the Service Provider the DS3 System ServiceServices Payments as calculated in accordance with Schedule 2 provided always that the Service Provider has passedcompleted all Compliance TestsPerformance Milestones and is compliant with the Operational Requirements and the terms of this Agreement.
- 5.1.2 All amounts payable by the Company under this Agreement are exclusive of any applicable Value Added Tax, sales tax or other lawful taxes or levies applicable by reason of the performance of the Agreement and the Parties agree that an amount equal to any applicable Value Added Tax, sales tax or other lawful taxes or levies lawfully chargeable in respect of the performance of the Agreement shall be payable or repayable, as the case may be, in addition to, at the same time and in the same manner as the amounts to which it relates.

5.1.3 The Company shall have no right tomay settle amounts due to the Service Provider under this Agreement net of amounts due to the Company by the Service Provider under other agreements.

# 5.2 Billing and Payment Plan

5.2.15.4 The provisions of Schedule 3 shall apply in relation to the billing and payment of procedures for the DS3 System Services Payments.

# 6 Monitoring and Metering

- 6.1 The Company may use or install Metering Equipment and Monitoring Equipment and/or require the Service Provider to install Monitoring Equipment to ensure that the Service Provider is complying with its obligations to provide the <a href="mailto:DS3 SystemContracted">DS3 SystemContracted</a> Services and OFR from the Providing Unit in accordance with the Grid Code or Distribution Code and the Protocol where applicable and in accordance with the terms of this Agreement.
- 6.2 The relationship between the Parties with respect to Metering Equipment shall be regulated in accordance with the Metering Code.
- 6.3 Without purporting to exhaustively specify the circumstances in which no payments will be made under this Agreement, no payments will be made under this Agreement in respect of DS3 System Services to be provided from a Providing Unit in relation to any period during which the Providing Unit or the Service Provider's Installation—at any Connection Site used by that Providing Unit, is prevented from providing the DS3 SystemContracted Services—and OFR by reason of (i) a circumstance of a Force Majeure or (ii) the Providing Unit being De-energised, Decommissioned or Disconnected for any reason pursuant to the relevant Connection Agreement, Interface Agreement or Use of System Agreement (as applicable) or in accordance with the provisions set out in Schedules 2, 3 or 4.
- 6.4 Where the Service Provider serves notice to Decommission or Disconnect the Service Provider's InstallationProviding Unit at a Connection Site under the Connection Agreement or Interface Agreement, the Parties shall discuss in good faith the possibility of terms being offered for the continued provision following the date when

Decommissioning or Disconnection would otherwise have occurred of any DS3 System Service and OFRof the Contracted Services which waswere being provided by the Service Provider at that Connection Site immediately before service of the notice to Decommission or Disconnect and for which the Company is unable to find a reasonable alternative.

6.5 The Service Provider will accept the data provided by the Metering Equipment and/or Monitoring Equipment applicable to the Providing Unit and the Company's monitoring system including meters and SCADA or State Estimators unless it has reasonable grounds for believing that such Metering Equipment or Monitoring Equipment is defective, in which case the Service Provider shall notify the Company and the Parties will make every effort to resolve the issue and reconcile the payments. Any dispute under this Clause 6.5 shall be referable to the Expert in accordance with the Dispute Resolution Procedure.

# 7 Assignment

- 7.1 The Service Provider shall not assign, novate or otherwise transfer nor purport to assign novate or otherwise transfer the benefit or burden of the whole or part of this Agreement save in the following circumstances:
  - 7.1.1 the Service Provider may assign or charge its benefit under this Agreement to a Funder in whole or in part by way of security;
  - 7.1.2 the Service Provider may transfer its rights and obligations under this Agreement, upon the disposal of the whole of the Service Provider's business or undertaking, to the purchaser thereof, provided that the Company or the Distribution System Operator (as the case may be) has provided prior written consent to the transfer of the Service Provider's rights and obligations under the Connection Agreement and/or Interface Agreement (as applicable);has provided its prior written agreement; or
  - 7.1.3 upon disposal of part of the Service Provider's business or undertaking comprising the Service Provider's Installation Providing Unit at one or more Connection Sites

the Service Provider may transfer such of its rights and obligations under this Agreement as relate to the Providing Unit and the DS3 SystemContracted Services and OFR concerned to the purchaser thereof, provided that the Company or the Distribution System Operator (as the case may be) has provided its prior written consent to the transfer of the Service Provider's rights and obligations under the Connection Agreement or Interface Agreement (as applicable) relevant to the part of the business or undertaking to be transferred.

- 7.2 The Company may at any time assign, novate or otherwise transfer all of its rights and obligations under this Agreement to an Affiliate or to another person who by statute becomes legal successor to the Company or, in the event that the Company ceases to be the Transmission System Operator in Ireland, to its successor transmission system operator in Ireland.
- 7.23 No assignment, novation or other transfer pursuant to Clause 7.1 or 7.2 shall be effective unless and until the assignor has procured the proposed assignee to covenant directly with the other Party to observe and perform all the terms and conditions of this Agreement (so far as they apply to the assignee), has provided to the other Party a certified copy of the assignment (omitting the consideration and any other commercial terms) and has procured that any guarantee in respect of the assignor's obligations is extended to the proposed assignee or replaced by another providing the other Party with equivalent security.

## 8 Variations

- 8.1 This Agreement may not be varied without the prior written approval of the Regulatory Authority provided that the approval of the Regulatory Authority shall not be required in relation to variation of the Operating Parameters set out in Schedule 9.
- 8.2 Either Party may at any time give written notice to the other proposing that this Agreement be varied. Subject to Regulatory Authority approval being obtained, this Agreement may be varied if made in writing and signed by authorised representatives of both Parties (but not otherwise).

- 8.3 If, after execution of this Agreement, there shall be enacted and brought into force legislation and/or any Directive, rule, regulation, direction, statutory instrument or order of any Competent Authority arising therefrom, or change in the Grid Code, Distribution Code, Network Codes, Metering Code or Trading and Settlement Code providing for:
  - 8.3.1 the further reorganisation of all or part of the electricity industry in either Northern Ireland or Ireland, or
  - 8.3.2 the facilitation of the introduction of third party interests to the affairs of such electricity industry or any part of it, or
  - 8.3.3 the amendment or variation of any policy of the Company or the manner in which the Transmission System or Distribution System and any agreements or codes related thereto are organised, or
  - 8.3.4 the imposition of a public service obligation or the introduction of a levy under Section 39 and/or Section 40 of the Act,

which necessitates a variation to this Agreement other than its payment terms, the Parties shall, subject always to Clause 8.1, effect such changes to this Agreement as are reasonably necessary so as to ensure that the operations contemplated by this Agreement shall be conducted in a manner which is consistent with the effect of the new legislation, Directive, rule, regulation, direction, statutory instrument or order, or change in the Grid Code, Distribution Code, Network Codes, Metering Code or Trading and Settlement Code and most closely reflect the intentions of same with effect from the date thereof provided however that any such amendment  $\div$ 

- (a) will be of no greater extent than is required by reason of the new legislation, Directive, rule, regulation, direction, statutory instrument or order, or change in the Grid Code, Metering Code, Network Codes, the Distribution Code or Trading and Settlement Code; and.
- (b) shall not deal with the cost implications under this Agreement of any such new legislation, Directive, rule, regulation, direction, statutory instrument or order, or change in the Grid Code, Metering Code, Network Codes, the Distribution Code or

Trading and Settlement Code, which, if any, shall fall to be considered in accordance with the provisions of clause 14 of this Agreement.

- 8.4 The Parties hereby agree to effect any change to the Agreement required by any direction given by the Regulatory Authority under Sections 34 or 35 of the Act relating to a DS3 System Services Agreement of this type.
- 8.5 If any variation proposed under Clauses 8.21, 8.32 or 8.43 has not been agreed by the Parties within one (1) month of its being proposed, then either Party may refer to the Regulatory Authority for determination and the Parties agree to abide by and to effect the Regulatory Authority's determination, if necessary by entering into an agreement supplemental to this Agreement.

## 9 Events of Default and Termination

- 9.1 The Company and the Service Provider, without prejudice to the remaining rights and obligations of the Parties under this Agreement or in law, shall be entitled, by giving three (3) month's written notice to the other Party and with the consent in writing of the other Party (such consent not to be unreasonably withheld) to terminate this Agreement..
- 9.2 Without prejudice to any other rights it may have under this Agreement or in law, the Company may in respect of any of the events of default set out for the purposes of this Clause in sub-clauses 9.2.1 to 9.2.12 by notice in writing to the Service Provider terminate this Agreement in its entirety or (at the Company's sole discretion) forthwith upon:
- 9.2.1 9.1 The Company may terminate this Agreement if, by the Target Go-Live Date, the Service Provider's Providing Unit has not completed its Performance Milestones, or commenced provision of Contracted Services.

# 9.2 The following events or circumstances shall be Events of Default:

9.2.1 the Service Provider ceasing to be a signatory to the Trading and Settlement Code to the extent that the Service Provider is a party to the Trading and Settlement Code, otherwise than due to the Trading and Settlement Code being terminated (in which case Clause 9.2.2 may apply); or

- 9.2.2 termination of the Trading and Settlement Code, save where the same is replaced with alternative electricity trading arrangements; or
- 9.2.2 9.2.3—the Connection Agreement or Interface Agreement (as applicable) being properly terminated in accordance with their respective terms provided always that, where this Agreement relates to the provision of the DS3—SystemContracted Services and OFR from more than one of the Service Provider's Providing Units the right for the Company to terminate this AgreementEvent of Default shall be limited to termination of the Parties' respective obligations relating to the DS3—Systemthe Contracted Services and OFR to be provided from the Service Provider's Providing Units for which the relevant Connection Agreement or Interface Agreement (as applicable) has terminated; or
- 9.2.3 the Use of System Agreement being properly terminated in accordance with its terms to the extent that the Providing Unit is connected to the Transmission System; or
- 9.2.4 revocation or withdrawal of the TSOGeneration Licence and/or Supply Licence (as applicable) granted to the Service Provider or any replacement thereof-granted to the Company by a Competent Authority; or
- 9.2.5 revocation or withdrawal of the Generation Licence and/or Supply Licence (as applicable) or any replacement thereof granted to the Service Provider by a Competent Authority; or
- 9.2.69.2.5 9.2.7 the occurrence of any of the circumstances set out in Clause 4.1.25 (a) to (e) inclusive of this Agreement; or
- 9.2.79.2.6 9.2.8 the Service Provider failing to comply with or failing to operate in conformity with any provisions of this Agreement or the Grid Code where such failure is a material breach of this Agreement (being one which materially affects the Service Provider's ability to perform its obligations under this Agreement) or the Grid Code, as the case may be, and, either:

- 9.2.7 any grounds for exclusion set out in Regulation 57 of the European Union (Award of Public Authority Contracts) Regulations 2016 applying to the Service Provider; or
  - (i) the breach is not capable of remedy; or
  - (ii) if such failure is capable of remedy but remains unremedied for any period provided for in this Agreement or, if none is provided for in this Agreement, then twenty (20forty (40) Business Days following the date on which the Service Provider and, where applicable, its Funder is given written notice of the breach by the Company; or
- 9.2.8 any grounds for exclusion set out in Regulation 57 of the European Union (Award of Public Authority Contracts) Regulations 2016 applying to the Service Provider; or
- 9.2.9 the Company becomes aware that, at the time of the award of the Agreement, the Service Provider was in one of the situations referred to in Regulation 57(1) or (2) of European Union (Award of Public Authority Contracts) Regulations 2016 and should have been excluded from the procurement procedure leading to the award of this Agreement; or
- 9.2.10 the Agreement has been subject to a substantial modification which requires a new procurement procedure in accordance with Regulation 97 of the European Union (Award of Contracts by Utility Undertakings) Regulations 2016; or
- 9.2.11 the Agreement should not have been awarded to the Service Provider in view of a serious infringement of the obligations under the Treaties governing the European Union or the European Union (Award of Contracts by Utility Undertakings) Regulations 2016 that has been declared by the Court of Justice of the European Union in a procedure under Article 258 of the TFEU; or
- 9.2.12 in the event that a challenge to the award of this Agreement to the Service Provider or to any aspect of the competition leading to award of this Agreement is or has been made by any person on the grounds of non-compliance with EUEuropean Union public procurement rules.

- 9.2.13 9.2.14 in relation to the Service Provider only:
  - (a) an order of the High Court being made or an effective resolution passed for its insolvent winding up or dissolution; or
  - (b) if, within twenty-eight (28) days of appointment of a receiver (which expression shall if applicable include an examiner within the meaning of Section 508 of the Companies Act, 2014) liquidator, administrative receiver, administrator nominee or other similar officer in respect of the whole or any material part of its assets or undertaking, such person has not provided to the Company a guarantee of future performance by the Service Provider of the Agreement in such form and amount as the Company may reasonably require; or
  - (c) any scheme of arrangement being entered into (other than for the purpose of a solvent reconstruction or amalgamation upon terms and within such period as may previously have been approved in writing by the Company); or
  - (d) inability to pay its debts within the meaning of the Relevant Legislation; or
- 9.2.14 9.2.15 the Service Provider failing to pay (other than by inadvertent error in transfer of funds which is discovered by the Company, notified to the Service Provider and corrected within two (2) Business Days thereafter) any amount properly due or owing from it pursuant to this Agreement and such failure to pay continues unremedied (and is not disputed in good faith and upon reasonable grounds) at the expiry of fifteen (15) Business Days following receipt of written notice from the Company to the Service Provider and the Funder (if applicable) of such failure; or
- 9.2.16 the Providing Unit being destroyed or damaged (including by Force Majeure) to such an extent as to be incapable of providing the DS3 System Services and OFR, and it is agreed between the Parties or determined by an Expert that the Providing Unit is unlikely to be restored to at least seventy-five per cent (75%) of the Registered Capacity within twenty-four (24) months after the date on which the destruction or damage occurred; or

- 9.2.159.2.17-the Providing Unit failing to make available the DS3 SystemContracted Services and OFR, such that the Performance Assessment results in their Availability Performance Scalar value being 0 for three (3) consecutive months.
- 9.3 Once an Event of Default has occurred and remains extant, the Company may give notice of termination to the Service Provider whereupon the Agreement shall terminate with effect from the date specified in the notice. The Company shall have no liability to the Service Provider by reason of exercising such right of termination.
- 9.39.4 The Service Provider may by notice in writing to the Company terminate this Agreement:

# 9.34.1 forthwith upon:

- (a) the Company failing to pay (other than by inadvertent error in funds transmission which is discovered by the Service Provider, notified to the Company and corrected within two (2) Business Days thereafter) any material amount properly due or owing from it pursuant to this Agreement and such failure to pay continues unremedied (and is not disputed in good faith and upon reasonable grounds) at the expiry of fifteen (15) Business Days following receipt of written notice from the Service Provider of such failure; or
- (b) the revocation or withdrawal of the TSO Licence or any replacement thereof granted to the Company by a Competent Authority; or
- 9.34.2 upon the date of closure of the Providing Unit where such closure takes place in accordance with the closure provisions of the Grid Code or a derogation from the notice provisions thereunder.
- 9.45 In the event that this Agreement is declared "ineffective" pursuant to Regulation 9(1) (b) of the European Communities (Award of Contracts by Utility Undertakings) (Review Procedures) Regulations 2010, the Companyneither Party shall have no any liability to the Service Providerother Party other than in respect of DS3 SystemContracted Services and OFR provided prior to the date on which such "ineffectiveness" order takes effect. Under no circumstances shall the Service Providereither Party be entitled to any payment or compensation for loss of profit for DS3 SystemContracted Services and OFR not provided consequent on such declaration of ineffectiveness or for loss of opportunity or reputation or breach of statutory duty or otherwise.

#### 10 Effect of Termination

- 10.1 The relevant provisions of this Agreement shall survive expiry or termination of this Agreement to the extent necessary to provide for final billings, adjustments and payment of any payments, charges or other monies due and owing pursuant to this Agreement.
- 10.2 Termination of this Agreement as a whole under Clause 9 shall not affect any rights or obligations of the Parties which have accrued at the time of such termination or, where applicable, the continuing obligations of the Parties under this Agreement.

# 11 Force Majeure

- 11.1 If before the <u>Target</u> Go-Live Date, the Providing Unit cannot make available <u>any of</u> the DS3 System <u>Service(s)</u> and <u>OFR Services</u> owing to Force Majeure, the Service Provider shall not be entitled to <u>Payments for those</u> DS3 System Services <u>Payments</u> during the period that the Force Majeure is continuing.
- 11.2 If during any Trading Period, the Providing Unit cannot make available any of the DS3 System Service(s) and OFR Services owing to Force Majeure, the Service Provider shall not only be entitled to DS3 System Services Payments for the actual DS3 System Services that were provided during the Trading Period in which the Force Majeure took place.
- 11.3 As soon as reasonably practicable following the occurrence of Force Majeure:
  - 11.3.1 the Party affected by the Force Majeure (the "**Notifying Party**") shall notify the other Party of the Force Majeure, identifying the nature of the event and the duration of its effect which the Notifying Party believes to be reasonably likely;
  - 11.3.2 the Notifying Party shall afford the other Party reasonable access and facilities for obtaining further information about the event including facilities for site inspection; and
  - 11.3.3 the Notifying Party shall take, at its own cost, all steps reasonably required to mitigate the effects of the Force Majeure.

11.4 Subject to the other provisions of this Clause 11, the Notifying Party shall not be in breach of its obligations under this Agreement for so long as and to the extent that the performance of such obligations continues to be prevented by the relevant event of Force Majeure.

# 12 Limitation of Liability

- 12.1 Neither Party shall be liable to the other Party for any losses, damages, claims, liabilities, costs or expenses arising from any breach of this Agreement other than for losses, damages, claims, liabilities, costs or expenses directly resulting from a breach which at the date of this Agreement was reasonably foreseeable as likely to occur in the ordinary course of events from such breach in respect of:
  - 12.1.1 physical damage being occasioned to the property of the other Party, its officers, employees or agents; or
  - 12.1.2 the liability of the other Party to any other person for loss in respect of physical damage caused directly to the property of such other person as a result of such breach (a claim by a third party in respect of that liability hereafter in Clause 12.5 being referred to as a "Legal Claim"); or
  - 12.1.3 (in the case of breach by the Service Provider) purchasing or obtaining services where reasonably and necessarily required to replace the DS3 System Services which, at the date of this Agreement, the Parties agree and acknowledge is reasonably foreseeable as likely to occur in the ordinary course of events from such breaches,

provided that the liability of either Party in respect of all such losses, damages, claims, liabilities, costs or expenses shall not exceed the Liability Cap.

12.2 Subject to Clause 12.3 and any provision of this Agreement which provides for payment obligations or an indemnity, neither Party nor any of their respective officers, directors, employees or agents shall in any circumstances whatsoever be liable to the other Party for:

- 12.2.1 loss of profit, loss of revenue, loss of use, loss of contract (other than this Agreement) or loss of goodwill (whether these are direct or indirect losses); or
- 12.2.2 indirect or consequential loss, incidental or special damages (including punitive damages); or
- 12.2.3 loss resulting from the liability of the other Party to any other person howsoever and whensoever arising, save as provided in Clause 12.1.2.
- 12.3 Nothing in this Agreement shall exclude or limit the liability of one Party ("the Party Liable") for death or personal injury to an officer, employee or agent of the other Party, ("the Party Not Liable"), resulting directly from the negligence of the Party Liable or any of its officers, employees and agents and, the Party Liable shall indemnify and keep indemnified the Party Not Liable, its officers, employees and agents from and against any losses, damages, claims, liabilities, costs or expenses which the Party Not Liable may suffer or incur by reason of any claim on account of death or personal injury resulting from the negligence of the Party Liable or the negligence of any of its officers, employees or agents (such claim hereafter in Clause 12.6 being referred to as an "Injury Claim").
- 12.4 The rights and remedies provided by this Agreement to the Parties are exclusive and not cumulative and exclude and are in place of all substantive (but not procedural) rights or remedies expressed or implied and provided by common law or statute in respect of the subject matter of this Agreement, including without limitation any rights either Party may possess in tort which shall include without limitation actions brought in negligence and/or nuisance. Accordingly, each of the Parties hereby waives to the fullest extent possible all such rights and remedies provided by common law or statute, and releases the other Party, its officers, employees and agents to the same extent from all duties, liabilities, responsibilities or obligations provided by common law or statute in respect of the matters dealt with in this Agreement and undertakes not to enforce any of the same except as expressly provided herein.
- 12.5 In the event of any Legal Claim being made by a third party against the Party Not Liable, the Party Liable shall be promptly notified by the Party Not Liable of the Legal Claim and, the Party Liable may, at its own expense, conduct all negotiations for the settlement of the Legal Claim and any litigation that may arise from the Legal Claim. The Party Not Liable shall not, unless and until the Party Liable has failed to unconditionally agree in writing to take over the conduct of the negotiations or litigation in respect of the Legal

Claim within ten (10) Business Days of receiving notice from the Party Not Liable requesting it to do so, make any admission which might be prejudicial to the Legal Claim. The conduct by the Party Liable of such negotiations or litigation shall be conditional upon the Party Liable having first given to the Party Not Liable such reasonable security as the Party Not Liable shall from time to time notify the Party Liable that it requires to cover the amount ascertained or agreed or estimated, as the case may be, of any losses, damages, claims, liabilities or costs for which the Party Not Liable may become liable in respect of the Legal Claim. The Party Not Liable shall, at the request of the Party Liable, afford all available assistance for the purpose of contesting the Legal Claim and shall be paid by the Party Liable (within ten (10) Business Days of the date of its invoice therefor) all reasonable expenses incurred in so doing.

- 12.6 In the event of any Injury Claim being made by a third party against the Party Not Liable, the Party Liable shall be promptly notified by the Party Not Liable of the Injury Claim and, the Party Liable may at its own expense, conduct all negotiations for the settlement of the Injury Claim and any litigation that may arise from the Injury Claim. The Party Not Liable shall not, unless and until the Party Liable has failed to unconditionally agree in writing to take over the conduct of the negotiations or litigation in respect of the injury claim within ten (10) Business Days of receiving notice from the Party Not Liable requesting it to do so, make any admission which might be prejudicial to the Injury Claim. The conduct by the Party Liable of such negotiations or litigation shall be conditional upon the Party Liable having first given to the Party Not Liable such reasonable security as the Party Not Liable shall from time to time notify the Party Liable that it requires to cover the amount ascertained or agreed or estimated, as the case may be of any losses, damages, claims, liabilities, costs or expenses for which the Party Not Liable may become liable in respect of the Injury Claim. The Party Not Liable shall, at the request of the Party Liable, afford all available assistance for the purpose of contesting the Injury Claim and shall be paid by the Party Liable (within ten (10) Business Days of the date of its invoice therefor) all reasonable expenses incurred in so doing.
- 12.7 Each of the provisions of this Clause 12 shall:
  - 12.7.1 be construed as a separate and severable contract term, and if one or more of such provisions is held to be invalid, unlawful or otherwise unenforceable the other or others of such provisions shall remain in full force and effect and shall continue to bind the Parties; and

- 12.7.2 survive termination of this Agreement.
- 12.8 Each of the Parties agrees that the other Party holds the benefit of Clauses 12.1, 12.2 and 12.3 for itself and as trustee and agent for its officers, directors, employees and agents.
- 12.9 For the avoidance of doubt nothing in this Clause 12 shall prevent or restrict either Party enforcing any obligation (including suing for a debt) owed to it under or pursuant to this Agreement.
- 12.10 Nothing in this Clause 12 shall exclude or restrict or otherwise prejudice or affect any:
  - 12.10.1 rights and obligations of either Party which are conferred or created by the Act, the TSO Licence or the Service Provider's Generation Licence or Supply Licence (as the case may be), or statutory regulations; or
  - 12.10.2 rights, powers, duties and obligations of the Regulatory Authority or any other Competent Authority under the Act, any licence granted under the Act or otherwise howsoever.
- 12.11 Subject to Clause 12.10 and unless expressly provided otherwise in this Agreement, this Clause 12 insofar as it excludes or limits liability shall override any other provisions of this Agreement.
- 12.12 Each Party hereby acknowledges and agrees that the provisions of this Clause 12 are fair and reasonable having regard to the circumstances as at the date of this Agreement.

# 13 Confidentiality

- 13.1 Each Party shall treat any and all information and data disclosed to it by the other Party in connection with this Agreement in any form whatsoever (the "Confidential Information") as confidential and proprietary, shall preserve the secrecy of the Confidential Information and shall not use the Confidential Information for any purpose other than solely in connection with this Agreement.
- 13.2 For the purposes of this Clause 13, the term "Confidential Information" shall not include information which:

- 13.2.1 at the time of disclosure or at any time thereafter is in, or becomes part of, the public domain other than through a breach of the provisions of this Clause 13;
- 13.2.2 the Party receiving the information can prove that the information was already known to it or was independently acquired or developed by it without being in breach of its obligations under this Clause 13;
- 13.2.3 became available to the Party receiving the information from another source in a non-confidential manner otherwise than in breach of an obligation of confidentiality; or
- 13.2.4 is published by or the publication of which is required by a Competent Authority.
- 13.3 Notwithstanding the provisions of Clause 13.1, Confidential Information may be disclosed by a Party:
  - 13.3.1 to proposed and actual shareholders, owners, directors, officers, employees, agents, consultants, contractors, advisers, investors, assignees, insurers, lenders or bona fide prospective purchasers of all or substantially all of the shares of such Party or its Affiliates who need to know the Confidential Information provided that:
    - (a) the recipient agrees to keep the Confidential Information confidential on terms no less onerous than contained in this Clause 13; and
    - the disclosing Party shall be responsible for ensuring that the recipient observes and complies with such obligation to keep the Confidential Information confidential and shall accordingly be responsible for any failure of the recipient to do so;
  - 13.3.2 as may be ordered or required by any applicable law or a Competent Authority;
  - 13.3.3 as may be required by the regulations of any recognised stock exchange upon which the share capital of the Party (or any parent undertaking of the Party) is or is proposed to be from time to time listed or dealt in, and the Party making the

disclosure shall, if reasonably practicable prior to making the disclosure, and in any event as soon as reasonably practicable thereafter, supply the other Party with a copy of such disclosure or statement and details of the persons to whom the Confidential Information is to be, or has been, disclosed. Where a copy of such disclosure or statement has been supplied prior to making the disclosure, the other Party may give comments on that disclosure or statement to the Party proposing to make it. The Party proposing to make the disclosure shall, if reasonably practicable in the time available, consult with the other Party as to any such comments and consider whether the disclosure is to be amended to take into account the comments:

- 13.3.4 as may be permitted by or required to comply with the requirements of the Grid Code, Distribution Code, Network Codes, Metering Code or the Trading and Settlement Code;
- 13.3.5 by either Party as may be necessary to comply with any obligation under any licence (or any document referred to therein) granted to it under the Act;
- 13.3.6 (by the Company) to the Other TSO and otherwise as may be necessary to enable the Company to operate the Transmission System and carry out its obligations in relation thereto in accordance with Good Industry Practice (including in relation to the application by any person for connection to the Transmission System), provided that:
  - (a) only Confidential Information which is necessary for such purpose is disclosed by the Company; and
  - (b) the Company notifies the recipient in advance of such disclosure that the information is confidential and should not be disclosed by the recipient to third parties;
- 13.3.7 as may be required by a Court, arbitrator or administrative tribunal or an expert in the course of proceedings before it to which the disclosing Party is a party; or

- 13.3.8 as may be agreed in writing by the Parties prior to disclosure by the Party disclosing such Confidential Information.
- 13.4 All information supplied by or on behalf of a Party shall remain the sole and exclusive property of such Party and this Agreement shall not operate to transfer ownership or any interest whatsoever therein, and the other Party shall, if requested by the Party disclosing the information following termination of this Agreement, promptly return to such Party all documents and any copies, extracts, notes or similar materials containing or based in whole on such information.
- 13.5 With effect from the date of this Agreement both Parties shall adopt procedures within their organisations for ensuring the confidentiality of all information which they are obliged to preserve as confidential under this Clause 13. Those procedures shall be as follows:
  - 13.5.1 the Confidential Information will be disseminated only to persons who need such information for the purpose of carrying out those functions which they are employed to carry out;
  - 13.5.2 the Confidential Information shall not be used by either Party for the purpose of obtaining for itself or any of its Affiliates or for any other person any contract or arrangement for the supply of electricity to any person without the prior consent of the Party disclosing such Confidential Information;
  - 13.5.3 employees, directors, Affiliates, agents, proposed assignees, bona fide prospective purchasers of all or substantially all of the shares of a Party, consultants and professional advisers of both Parties in receipt of Confidential Information will be made fully aware of the Party's obligations of confidence in relation thereto and the Party will be responsible for any failure by such persons to comply with such obligations as if they were parties to this Agreement; and
  - 13.5.4 any copies of the Confidential Information will, insofar as is reasonably practicable, whether in hard copy or computerised form, clearly identify the Confidential Information as confidential.
- 13.6 The provisions of this Clause 13 shall continue to bind a Party for five (5) years after termination of this Agreement.
- 13.7 Subject to Clause 13.3, no public announcement or statement regarding the signature, performance or termination of, or otherwise in relation to, the Agreement shall be issued or made by a Party unless the other Party shall have first been furnished with a written

copy of the proposed announcement or statement and shall have approved it (such approval not to be unreasonably withheld or delayed).

# 14 Dispute Resolution

14.1 If any dispute or difference arises between the Parties in connection with this Agreement, it shall, subject to any express provision to the contrary contained herein, be resolved in accordance with the provisions set out in the Dispute Resolution Procedure.

#### 15 Miscellaneous

## 15.1 Counterparts

This Agreement may be executed in any number of counterparts and by each Party on a separate counterpart, each of which when executed and delivered shall be an original, but all the counterparts together shall constitute one and the same document.

## 15.2 Entire Agreement

This Agreement contains and expressly refers to the entire agreement between the Parties with respect to its subject matter and expressly excludes, to the extent permissible in law, any warranty, condition or other undertaking implied at law or by custom and with effect from the Effective Date supersedes all previous agreements and understandings between the Parties (other than as provided for in this Agreement) with respect to its subject matter and each of the Parties acknowledges and confirms that it does not enter into this Agreement in reliance on any representation, warranty or other undertaking by the other Party not fully reflected in this Agreement.

# 15.3 Severability

If any provision of this Agreement is or becomes invalid, unenforceable or illegal by a judgement or decision of any court of competent jurisdiction or any Competent Authority to which it is <u>subjectorsubject or</u> by order of the relevant body of the European Union, the same shall be deemed severable and the remainder of this Agreement shall remain in full force and effect. In any such case, the Parties will negotiate in good faith with a view to agreeing one or more provisions which may be substituted for such invalid or unenforceable provision in order to give effect, so far as practicable, to the spirit of this Agreement.

# 15.4 Waivers

No delay or forbearance by either Party in exercising any right, power, privilege or remedy under this Agreement shall operate to impair or be construed as a waiver of the right, power, privilege or remedy. For the avoidance of doubt, any waiver by either Party of the obligations of the other Party shall be evidenced by an agreement in writing signed by both Parties. A single or partial exercise of any such right, power, privilege or remedy shall not preclude any further exercise thereof or the exercise of any other right, power, privilege or remedy.

#### 15.5 Notices

Except for notices to be given pursuant to the Grid Code (as to which, for the avoidance of doubt, the provisions of the Grid Code shall apply) or the Distribution Code (as to which, for the avoidance of doubt, the procedures provided for in the Distribution Code shall apply), any notice given by one Party to the other under this Agreement shall be in writing (unless emergency conditions exist reasonably preventing such notice from being given in writing) and shall be sent or delivered to the address, and marked for the attention of the person specified in Schedule 6. Either Party may, by notice to the other, given in compliance with this Clause 4615.5, change its address or the person in that Party to which such notices are to be sent or delivered.

All such written notices shall either be personally delivered or be sent by pre-paid registered post (airmail if overseas) or electronic transfer. Communication by electronic means shall be confirmed by forwarding a copy of same by pre-paid registered post.

Any notice so delivered, posted or transferred shall be deemed to have been given:

- 15.5.1 in the case of personal delivery, when delivered;
- in the case of pre-paid registered post, on the second day following the date of posting (or, if airmailed to or from overseas, on the fifth day following the date of posting);

otherwise on the next following Business Day.

#### 15.6 Compliance with the Law

The Parties agree that, in performing their respective obligations pursuant to this Agreement, the Company and the Service Provider shall be required to comply with relevant statutes, statutory instruments and the general law and applicable obligations in the fields of environmental, social and labour law that have been established by EUEuropean Union law, national law, collective agreements and by international, environmental, social and labour laws listed in Schedule 4410 of the European Union (Award of Contracts by Utility Undertakings) Regulations 2016. Neither Party shall be

liable for any failure to perform its obligations in accordance with this Agreement where to do so would put it in breach of any of the foregoing

#### 15.7 Survival

The cancellation, expiry or termination of this Agreement shall not affect any rights or obligations which may have accrued prior to such cancellation, expiry or termination and shall not affect any continuing obligations of either of the Parties under this Agreement including obligations that by their nature should survive such termination, cancellation or expiry or any other terms of this Agreement by which rights or obligations are expressed to continue after cancellation, expiry or termination of this Agreement.

#### 15.8 Independent Contractors

The relationship between the Company and the Service Provider shall be that of two independent contracting parties. Each Party shall be solely liable for the payment of all wages, taxes and other costs related to the employment by that Party of persons to meet its obligations under this Agreement.

# 15.9 No Partnership

This Agreement shall not be interpreted or construed to create an association, joint venture, or partnership between the Service Provider and the Company. Neither the Service Provider nor the Company shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or to be an agent or representative of, or to otherwise bind, the other Party.

# 15.10 No Third Party Beneficiaries

This Agreement is intended solely for the benefit of the Parties to it. Other than as specifically provided in this Agreement, nothing in this Agreement shall be construed to create any duty to, or standard of care with reference to, or any liability to, any person or entity not a party to this Agreement.

#### 15.11 Language

Each notification, notice, submission, demand, consent, request or other communication given by one Party to the other under this Agreement shall be in the English language.

# 16 Governing Law and Jurisdiction

16.1 This Agreement shall be interpreted, construed and governed by the laws of the

Jurisdiction.

16.2. Subject to the terms of the Dispute Resolution Procedure, resolution of any dispute shall,

unless the Parties otherwise agree, be subject to the non-exclusive jurisdiction of the courts

of the Jurisdiction.

16.3 Each Party further agrees that a lawful finding or conclusion of the Regulatory Authority

under this Agreement shall be conclusive and binding upon such Party and may be

enforced in the courts of any jurisdiction.

16.4 Each Party irrevocably waives any objection which it may have now or hereafter to the

laying of the venue of any proceedings in any court as is referred to in this Clause and

any claim that any proceedings have been brought in an inconvenient forum and further

irrevocably agrees that a judgment in any proceedings brought in the courts of the

Jurisdiction shall be conclusive and binding upon each Party and may be enforced in the

courts of any other jurisdiction.

17 Data Protection

The Company and the Service Provider shall enter into the form of supplemental data protection

agreement, or agreements as applicable, set out at Schedule 10 to this Agreement.

IN WITNESS WHEREOF this Agreement has been executed on the day and year first above written.

Signed for and on behalf of:-

EirGrid plc

Signed for and on behalf of:-:

Service Provider

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#### Schedule 1

#### **Definitions**

- "Achieved" means the actual level of a DS3 System Service which a Providing Unit provides in response to a Performance Incident;
- "Act" means the Electricity Regulation Act, 1999 (as amended);
- "Active Power" has the meaning given to it in the Grid Code;
- "Additional Grid Code Characteristics Notice" has the meaning given to it in the Grid Code;
- "Additional Reporting Milestones" means a development milestone of the Providing Unit as set out in Schedule 4;
- "Affiliate" means, in relation to either Party, any holding company or subsidiary or any subsidiary of a holding company of the relevant Party, in each case within the meaning of the Companies Act 2014;
- "Aggregated Generating Unit" has the meaning given to it in the Grid Code;
- "Aggregator" means Aggregated Generating Unit:
- "All\_Island Transmission Network" means the Transmission System together with the "transmission system" as defined in the licence granted to the Other TSO under Article 10(1) (b) of the Electricity (Northern Ireland) Order 1992;
- "Applicable Tolerance" means in relation to a DS3 System Service, the amount a Providing Unit's Achieved response is allowed to vary from its Expected response and still be considered as a 'Pass'. If this Applicable Tolerance is exceeded for a Performance Incident, the Performance Assessment will be deemed a Fail;
- "Assessment Period" means the time period over which a Performance Scalar is calculated. It is dependent on a number of criteria including the Data Start Date, Data Backstop Timeframe and the Data Backstop Limit;
- "Automatic Voltage Regulation" or "AVR" means the automatic maintenance of a Providing Unit's terminal voltage or the automatic maintenance of a Providing Unit's Voltage setpoint, Reactive Power setpoint or Power Factor setpoint at its Connection Point, as appropriate;

"Automatic Voltage Regulator Status" or "AVR Status" means the status of the AVR of a Providing Unit, as further defined in of Schedule 2;

"Approved Credit Rating" means an A2 or an A rating of long-term debt given by Moody's and/or Standard & Poor's, or another equivalent internationally recognised credit rating agency reasonably satisfactory to the Company;

"Available Volume" means, in relation to any of the DS3 System Services, the capability of the Providing Unit to provide such DS3 System Services to the Power System as calculated in accordance with the provisions of Schedule 2;

"Availability" has the meaning given to it in the Grid Code;

"Availability Modifier" has the meaning given to it in the Protocol;

"Availability Notice" has the meaning given to it in the Grid Code;

"Availability Performance Scalar" means a multiplicative factor which adjusts the payment for a given DS3 System Service to reflect a Providing Unit's historical Available Volumes for the provision of DS3 System Services, in accordance with the Protocol;

"Balancing Market" means the arrangements uner the Trading and Settlement Code that provide for the market-based management of System Operator actions and processes to balance continuously generation and demand and to maintain the stable and secure operation of the electricity transmission systems on the island of Ireland;

"Business Day" means a weekday which is not a public holiday or bank holiday in the Jurisdiction;

"Central Dispatch Calendar Year" means the period of 365 days (or 366 days in leap years) starting from the first of January;

"Capacity Market" has the meaning given to it in the Grid Trading and Settlement Code; (TSC);

"Centrally Dispatched" means subject to Central Dispatch;

"Charging Period" means a period of one calendar month;

"Cold" means a cold Warmth State;

"Company" means EirGrid plc and any legal successors in title-under any restructuring of EirGrid plc;

"Competent Authority" means the Regulatory Authority or any local, national or supranational agency, authority, department, inspectorate, minister, official, Court, tribunal or public or statutory person (whether autonomous or not) of Ireland (or the government thereof) or the European Union which has jurisdiction over a Party on the subject matter of the Agreement;

"Compliance Test" means the process of assessing that Operational Requirements are satisfied;

"Condition Precedent" in relation to a Major Contract or Finance Document, means any condition (whether or not described as such in the Major Contract or Finance Document), where such condition, taken together with all other such conditions under the applicable Major Contract or Finance Document, must be either satisfied or waived in order for the Major Contract or Finance Document to enter into full force and effect;

"Confidential Information" has the meaning set out in Clause 4213.1;

"Commencement of Construction Works" has the meaning given in paragraph 3 of Schedule 4:

"Completion of Network Connection" has the meaning given in paragraph 8 of Schedule 4;

"Connection" means where the Providing Unit is connected to the Transmission System or Distribution System;

"Connection Agreement" means in relation to a <u>Service Provider's Installation Providing Unit</u>, the agreement between the Company or the Distribution System Operator and the Service Provider which provides the right for that <u>Service Provider's Installation Providing Unit</u> to be and remain connected to the Transmission System or the Distribution System;

"Connection Conditions" has the meaning given to it in the Grid Code;

"Connection Offer" means the offer letter issued to a Service Provider for a Connection Agreement":

"Connection Point" means the physical point where the Providing Unit is joined to the Power System;

"Connection Site" has the meaning given to it in the Grid Code;

"Contracted" means, in relation to POR, SOR, TOR1, TOR2, FFR, or Over-Frequency Response (OFR)the Contracted Services and in relation to a Trading Period, the maximum value for the response of the Providing Unit determined from the POR Reserve Characteristic, SOR Reserve Characteristic, TOR1 Reserve Characteristic, TOR2 Reserve Characteristic, FFR Reserve Characteristic, POR-o Reserve Characteristic, or OFRFFR-o Reserve Characteristic respectively by reference to the MW Output of the Providing Unit for that Trading Period and in relation to Kinetic Energy means the value stated in Schedule 9 part 2 Operating Parameters;

"Controllable WFPS" has the meaning given to it in the Grid Code;

"Contracted Services" means, for the purposes of this Agreement, the provision of FFR, POR, SOR, TOR1, TOR2, FFR-o, POR-o, and SOR-o;

"Declaration" has the meaning given to it in the Grid Code;

"Declared" means, in relation to any DS3 System Service and in relation to a Trading Period, the Time-Weighted Average value, unless specified otherwise as the lowest value, for the capability of the Providing Unit to provide such DS3 System Service during that Trading Period as notified by the Service Provider in accordance with the Grid Code or as stipulated by the Company as appropriate. The "Declared" value must accurately reflect the true capability of the Providing Unit to provide such DS3 System Service;

"Declared Automatic Voltage Regulator Status" means the AVR Status for the Trading Period as notified by the Service Provider to the Company;

"Declared MinGen" means the Time-Weighted Average of Minimum Generation in a Trading Period as notified by the Service Provider in accordance with the Grid Code or in such other manner as stipulated by the Company as appropriate;

"Decommission" means cessation of use by the Service Provider of the Service Provider's Installation Providing Unit at any given Connection Site for a continuous period exceeding 12 months and "Decommissioned" shall be construed accordingly;

"De-Energise" has the meaning given to it in the Grid Code;

"Demand" has the meaning given to it in the Grid Code;

"De-synchronised" has the meaning given to it in the Grid Code;

"Demand Side Unit" or "DSU" has the meaning given to it in the Grid Code;

"Directive" means any present or future legislation, statutory instrument, directive, requirement, instruction, order, direction or rule of any Competent Authority binding on either or both of the Company and the Service Provider (but only, if not having the force of law, if compliance with the Directive is in accordance with the general practice of persons to whom the Directive is addressed) and includes any modification, extension or replacement thereof then in force:

"Disconnection" has the meaning set out in the Grid Code and "Disconnected" and "Disconnect" shall be construed accordingly;

"Dispatch" means the issue by the Company of instructions to a Service Provider in respect of the Providing Unit and the term "Dispatched" shall be construed accordingly:

"Dispatchable" means a Providing Unit that is capable of being Dispatched;

"Dispatchable WFPS" "Dispatch Instruction" has the meaning given to it in the Grid Code;

"Dispatch Instruction" means an instruction given by the Company to the Service Provider in respect of the Providing Unit to change the output, fuel or manner of operation of the Providing Unit and "Instruct" and "Instructed" shall be construed accordingly;

"Dispute Resolution Procedure" means the procedure set out in Schedule 65;

"Distribution Code" means the Distribution Code required to be prepared by the Distribution System Operator pursuant to section 33 of the Act, and approved by the Regulatory Authority, as from time to time revised, amended, supplemented or replaced with the approval of or at the instance of the Regulatory Authority;

"Distribution System" has the meaning given to it in the Grid Code;

"Distribution System Operator" has the meaning given to it in the Grid Code;

"DS3 System Services" for the purposes of this Agreement means the provision of POR, SOR, TOR1, TOR2 and FFR;

"DS3 System Services Payments" has means the meaning given to it payments described in Clause 5.1.2;

"DSUSOIA" means an agreement between the Service Provider and the Company which provides the right for the Providing Unit to be and remain connected to the Transmission System or the Distribution System to the extent that the Providing Unit is a Demand Side Unit;

"Dynamic Response" means a response provided by the Providing Unit by increases in MW Output or MW Reduction in a continuously controlled manner proportional to the Power System Frequency;

"EDIL" means electronic dispatch instruction logger;

"Effective Date" means the date of this Agreement;

"Energy Storage Providing Unit" means a Providing Unit which uses storage devices to generate and consume electricity;

"Euro" or "€" means the single currency of participating Member States of the European Union;

"Event" means an unscheduled or unplanned (although it may have been anticipated) occurrence on the Power System or on the Other Transmission System including, without limiting that general description, faults, incidents and breakdowns;

"Event Recorders" means event recorders as specified in the Metering Code or where not so specified such other metering equipment as may be used to monitor the Frequency of the Power System;

"Expenditure Cap" means the upper limit on expenditure approved by the Regulatory
Authority for DS3 System Services for the relevant Tariff Year;

"Event of Default" means any one of the events or circumstances as set out in Clause 9;

"Event Performance Scalar" means a multiplicative factor which adjusts the payment for a given DS3 System Service to reflect a Providing Unit's delivery of a given DS3 System Service as determined in accordance with the provisions of the Protocol;

"Expert" means the person appointed to determine a dispute under this Agreement in accordance with the Dispute Resolution Procedure;

"Fail" has the meaning given to it in the Protocol;

"Fast Frequency Response" or "FFR" has the meaning given to it in Schedule 2;

"Fault Disturbance" has the meaning given to it in the Grid Code;

"FFR Fast Response Scalar" means a multiplicative factor which adjusts the payment for the FFR DS3 System Service to reflect a Providing Unit's FFR Response Time capability;

"FFR-o" is the over-frequency equivalent of FFR and has the meaning given to it in Schedule 2:

"FFR-o Response Time" means the length of time in seconds from the start of an Event that it takes a Providing Unit to provide the FFR-o service;

"FFR-o Trajectory" means the magnitude of the change in Frequency from the OFR Trigger, measured in Hz, by which the Providing Unit shall deliver 100% of its contracted FFR-o volume, and is set by the Company;

"FFR Response Time" means the length of time in seconds from the start of an Event that it takes a Providing Unit to provide the FFR DS3 System Service-:

"FFR Trajectory" means the magnitude of the change in Frequency from the Under-Frequency Reserve Trigger, measured in Hz, by which the Providing Unit shall deliver 100% of its contracted FFR volume, and is set by the Company-;

"FFR Trajectory Capability" means the magnitude of the smallest change in Frequency from the Under-Frequency Reserve Trigger, measured in Hz, by which the Providing Unit is capable of delivering 100% of its contracted FFR volume-;

"FFR Hysteresis Control" means the capability of a Providing Unit to deliver a response at a particular Under-Frequency Reserve Trigger as the frequency falls and not to retract its initial provided response as the frequency recovers through the Under-Frequency Reserve Trigger.

"Final Operational Notification" means a notification issue by the relevant System Operator to a power-generating facility owner, demand facility owner, distribution system operator who complies with the relevant specifications and requirements, allowing them to operate respectively a power-generating module, demand facility, or distribution system by using the grid connection;

"Finance Documents" means any finance facility, credit agreement or similar agreement entered into by the Service Provider or an Affiliate of the Service Producer with a financier or financiers to provide financial accommodation (whether in whole or in part) in relation to or in connection with a Providing Unit;

"Firm Access Quantity" has the meaning given to it in the Trading and Settlement Code (TSC)-:

# "First Energy to Network: has the meaning given in paragraph 9 of Schedule 4;

"Force Majeure" means any event or circumstance or number of events or circumstances or combination thereof which is beyond the reasonable control of a Party and which could not have been avoided and which results in or causes the failure of a Party to perform any of its obligations under this Agreement and includes but is not limited to the following events:

- (a) acts of terrorism; or
- (b) war (whether declared or undeclared), threat of war, act of public enemy, blockade, revolution, riot, insurrection, public demonstration, civil commotion, invasion or armed conflict; or
- (c) sabotage or acts of vandalism, criminal damage or the threat of such acts; or
- (d) extreme weather or environmental conditions including lightning, earthquake, flood, wind, drought, storm, fire, landslip, accumulation of snow or ice, natural disasters and phenomena including meteorites, the occurrence of pressure waves caused by aircraft or other aerial devices travelling at supersonic speeds, impact by aircraft, volcanic eruption, explosion including nuclear explosion, radioactive or chemical contamination or ionising radiation; or
- (e) any change of legislation, governmental order, restraint or Directive without justifiable cause by any relevant governmental authority having the effect of shutting down or reducing the supply of electricity to the Service Provider's Installation Providing Unit or which prohibits (by rendering unlawful) the operation of the Service Provider's Installation Providing Unit and such operation cannot be made lawful by a modification to the Service Provider's Installation Providing Unit or a change in operating practice; or
- (f) any strike which is part of a labour dispute of a national character occurring in Ireland or which is part of a national electrical industry strike within Ireland; or
- (g) (in the event that the Providing Unit is not a Demand Side Unit) the inability at any time or from time to time of the Transmission System or Distribution System to be capable of lawfully or safely importing electricity from the <u>Service Provider's InstallationProviding</u> <u>Unit</u>; or

(h) failure or disruption of the systems for transferring funds between banks in Ireland;

"Frequency" has the meaning given to it in the Grid Code;

"Frequency Control" has the meaning given to it in the Grid Code; "Funder" means the party providing finance for the development and/or operation of the Providing Unit which has been notified in writing by the Service Provider to the Company from time to time;

"GASOA" means an agreement between the Service Provider and the Company which provides a right for the Providing Unit to be and remain connected to the Transmission System or Distribution System to the extent that the Providing Unit is an Aggregated Generating Unit;

"Generation Unit" has the meaning given to it in the Grid Code;

"Generation Licence" means a licence to generate electricity granted pursuant to the Act;

"Go-Live Date" means the date agreed by the Company and the Service Provider aton which the Service Provider's Providing Unit will commence provision of DS3 System Services, which will be [insert date] and unless the context otherwise requires, means 00:00 hours on that date;

"Good Industry Practice" means the exercise of that degree of skill, diligence, prudence and foresight which would be reasonably and ordinarily expected from a skilled and experienced operator engaged in the same type of undertaking under the same or similar circumstances;

"Governor Droop" has the meaning given to it in the Grid Code;

"Grid Code" means the code prepared by the Company pursuant to section 33 of the Act, and approved by the Regulatory Authority, as from time to time revised, amended, supplemented or replaced with the approval of or at the instance of the Regulatory Authority;

"Hot" means a hot Warmth State;

"Hot Cooling Boundary" means the period of time, which must be less than that defined by the Warm Cooling Boundary, post desynchronisation of a Providing Unit after which the Providing Unit's Warmth State transfers from being Hot to being Warm;

"Hydro-electric Providing Unit" means a Providing Unit connected to a hydro turbine which is driven either by the controlled flow of water from a reservoir or by the flow of a river;

"Hz" means Hertz;

"Implementation Progress Report" means a report following a pre-defined template which provides information on a Performance Milestone or Additional Reporting Milestone as listed in Schedule 4:

"Injury Claim" has the meaning given to it in Clause 12.3;

"Interconnector" has the meaning given to it in the Grid Code;

"Interconnector Frequency Droop" has the meaning given to it in the Grid Code;

"Interface Agreement" means a DSUSOIA or GASOA;

"Interim Operational Notification" means a notification issued by the relevant System Operator to a power-generating facility owner, demand facility owner, or distribution system operator which allows them to operate respectively a power-generating module, demand facility, or distribution system by using the grid connection for a limited period of time and to initiate compliance tests to ensure compliance with the relevant specifications and requirements;

"Jurisdiction" means Republic of Ireland;

"Kinetic Energy" means the energy that a Synchronous Providing Unit possesses due to its rotation;

"kVA" means kilovolt-amperes:

"kW" means kilowatts;

"Latest Expiration Date" means the latest date by which all contracts will expire, and is 6 years after the Standard Go-Live Date.

"Legal Claim" has the meaning given to it in Clause 12.1;.2:

"Letter of Credit" means an irrevocable standby letter of credit in such form as the Company may reasonably approve in favour of the Company, allowing for partial drawings and providing for the payment to the Company forthwith on demand, by any bank which meets the following criteria:

(a) banks with a long-term credit rating of at least AA (Standard and Poor) or AA2 (Moody's) or equivalent. AA minus will not suffice, or

- (b) holders of banking licences issued under Section 9 of the Central Bank Act 1971, with total balance sheets assets of not less than €1,270 million equivalent or whose parent bank, where such a holder is a branch or subsidiary, has total balance sheet assets of not less than €12,700 million equivalent and a rating not less than A/A2, or
- (c) subsidiaries of branches of international banks, operating in Republic of Ireland, provided that the parent bank meets the criteria at (a) or has total balance sheet assets of not less than €12,700 million or equivalent and a credit rating of at least A/A2;

"Liability Cap" for the purposes of Clause 12.1, means €130,000 per occurrence and an overall annual cap of €1,300,000 in any period of twelve consecutive calendar months during the term of this Agreement;

"Locational Scalar Major Contract" means a multiplicative factor which adjusts the payment, for a given DS3 System Service to reflect a Providing Unit's geographical location; Unit:

- a) the agreement or agreements under which the engineering, procurement and construction
   (EPC) contractor (if any) is appointed to construct, commission, repower or refurbish the
   Providing Unit; and
- b) any other agreement or agreements for a major component of the construction, repowering or refurbishing works. For theses purposes, a major component is one that represents at least 20 per cent of the Total Project Spend;

# "Mechanial Completion" has the meaning given in paragraph 7 of Schedule 4;

"Metering Code" means the code of that name which specifies the minimum technical design and operational criteria to be complied with for metering and data collection equipment and associated procedures as required under the Trading and Settlement Code;

"Metering Equipment" has the meaning given to it in the Metering Code;

"Meters" has the meaning set out in the Metering Code;

"Milestone Deadline" means the agreed—date for the achievement of each Performance Milestone (or Additional Reporting Milestone as set out in the definition of Performance Milestone); Schedule 4, and may be adjusted in accordance with Clause 4.2;

"Minimum Generation" has the meaning given to it in the Grid Code;

"Monitoring Equipment" means equipment used to assess the performance of a Providing Unit in providing a DS3 System Service and shall include but not be limited to Meters, SCADA, State Estimators and high-speed recorders and their associated data storage and data communications equipment;

"ms" means milliseconds:

"MW" means megawattmegawatts;

"MW Output" has the meaning given to it in the Grid Code;

"MW Reduction" means a reduction in Demand:

"Nadir Frequency MW Increase" means the minimum Frequency during the POR Period; an increase in Demand;

"Network Codes" means present and future directly effective EUEuropean Union Regulations which set the minimum standard for all users of the Distribution System and Transmission System including Commission Regulation (EU) 2017/2196, Commission Regulation (EU) 2016/1388, Commission Regulation (EU) 2016/631, Commission Regulation (EU) 2016/1447 and Commission Regulation (EU) 2017/1485;

"Network Congestion" means insufficient capability of the Transmission System or Distribution System to safely transmit electrical power to or from a specific location resulting in a reduction to a Providing Unit's Availability;

"Nominal Frequency" will for the purpose of this Agreement be considered to be 50Hz;

"Nominal Voltage" means the reference value of the Voltage by which any section of the Power System is designated and identified by the Company;

"Notifying Party" has the meaning given to it in Clause 1311.3.1;

"OFR Response TimeServices" means, for the lengthpurposes of time in seconds from this Agreement, the startprovision of an Event that it takes a Providing Unit to provide the OFR service;

"OFR Trajectory" means the magnitude of the change in Frequency from the OFR Trigger, measured in Hz, by which the Providing Unit shall deliver 100% of its contracted OFR volumeFFR-o, POR-o, and is set by the Company;

"OFR Trajectory Capability" means the magnitude of the smallest change in Frequency from the OFR Trigger, measured in Hz, by which the Providing Unit is capable of delivering 100% of its contracted OFR volumeSOR-o;

"OFR Trigger" means the Frequency above which the Providing Unit shall provide OFR as appropriate and is set by the Company;

"OFR Trigger Capability" means the Frequency above which the Providing Unit is capable of providing OFR;

"Operating Parameters" means the performance and operating specifications of each Providing Unit (certain of which are referred to in the Grid Code as Technical Parameters) for which values are specified, as are more fully set out in Schedule 9 in accordance with this Agreement;

"Operational Certificate" in relation to the Providing Unit, means a certificate issued by the relevant System Operator under the applicable Grid Code confirming that the Providing Unit has successful completed compliance desting under the Grid Code and includes a notification, certificate, permit or authorisation having equivalent effect that is issued by the relevant System Operator instead of an operational certificate;

"Operational Requirements" means the TSO's Company's standards that the Service Provider must satisfy in providing the DS3 System Service(s) Contracted Services from the Providing Unit detailed in Schedule 9;

"Other Transmission System" has the meaning given to it in the Grid Code;

"Other TSO" means SONI Limited (a company registered in Northern Ireland with company number NI 03871), or any of its legal successors or assigns, in its role as the transmission system operator in Northern Ireland;

"Over-Frequency Response" or "OFR" means the delivery of <u>a MW reduction</u> in response to a system frequency above the OFR Trigger, with characteristics given to it in Schedule 9;

"Party" means, as the context requires, the Company or the Service Provider; and the term "Parties" shall be construed accordingly;

"Party Liable" has the meaning given to it in Clause 12.3;

"Party Not Liable" has the meaning given to it in Clause 12.3;

#### "Pass" has the meaning given to it in the Protocol;

"Payment Discount Factor" means the reduction in Payment Rate, as determined by each party during the bidding process, expressed as a percentage of the total Payment Rate.

"Payment Rate" means the rate (expressed in €/MWh, €/MVArh or €/MWs²h as appropriate) for the calculation of payments for DS3 System Services which for the purposes of these arrangements will incorporate each party's Payment Discount Factor and be fixed at the time of contract execution-:

"Performance Assessment" has the meaning given to it in the Protocol;

"Performance Bond" is the on demand bond provided in the form and as set out in Schedule 4 of this Agreement.

"Performance Bond Amount" means the sum of €12,000 per MW contracted due to the Company prior to the execution of this Agreement which will form security against any of the events listed in Clause 4;

### "Performance Incident" has the meaning given to it in the Protocol;

"Performance Milestone" means the stage of the <u>a</u> development which is applicable to milestone of the Providing Unit. In accordance with Clause 4, the Service Provider must complete the following Performance Milestones by the Milestone Deadlines as set out in Schedule 4 for each Providing Unit.;

"Performance Scalar" means a multiplicative factor which adjusts Monitoring" has the payment for ameaning given DS3 System Service to reflect a Providing Unit's delivery of a given DS3 System Service as determined it in accordance with the provisions of the Protocol;

"Period" means, in relation to POR, SOR, TOR1 or TOR2, the period in which POR, SOR, TOR1 or TOR2 is required to be provided as further defined in Schedule 2;

"POR-o" means the reduction in MW output (and/or increase in Demand) required at the Zenith Frequency, compared to the pre-incident output (or Demand), which is fully available and sustainable between 5 seconds and 15 seconds after the Event and where the zenith occurs between 5 and 15 seconds after the Event. If the actual Zenith Frequency occurs less than 5 seconds or more than 15 seconds after the Event, then for the purpose of POR-o monitoring

the zenith is deemed to be the highest Frequency which did occur between 5 and 15 seconds after the Event;

"Power Park Module" has the meaning given to it in the Grid Code;

"Power System" means the Transmission System or Distribution System;

"Primary Operating Reserve" or "POR" has the meaning given to it in the Grid Code;

"Product Scalar" means a multiplicative factor which adjusts the payment for a given DS3 System Service to reflect a Providing Unit providing a given DS3 System Service with an enhanced performance that is of value to the Power System or a reduced performance that is of less value to the Power System;

"Protocol" means the document entitled "DS3 System Services Volume Capped Protocol" as published on the Company's website (www.eirgridgroup.com);

"Providing Unit" means the unit described in Part 1 of Schedule 9;

"Pumping Mode" means Provisional Acceptance/Completion of Performance Testing" has the state of a Pumped Storage Providing Unit when pumping;

"Pumped Storage Providing Unit" means a Providing Unit within a pumped storage plant where a fluid is pumped to a storage container when meaning given in Pumping Mode and the fluid's flow back is used to drive a turbine which powers a generator when in generating mode;

"Reactive Current" means in the phasor representation paragraph 11 of alternating current, the component of the current perpendicular to the voltage;

"Reactive Power" or "Mvar" means the product of voltage and current and the sine of the phase angle between them measured in units of volt-amperes reactive and standard multiples thereof;

"Reactive Power Control" means the control of the production and absorption of Reactive Power by the Providing Unit as detailed in Schedule 2;

"Reactive Power (Lagging)" means the production of Reactive Power by a Providing Unit:

"Reactive Power (Leading)" means the absorption of Reactive Power by a Providing Unit4;

"Registered Capacity" for Generation Units has the meaning defined in the Grid Code and for all other Providing Units means the maximum capacity, expressed in whole MW, that a Providing Unit can deliver on a sustained basis, without accelerated loss of equipment life, at the Connection Point;

"Regulatory Authority" means the Commission for Energy Regulation for EirGridof Utilities;

"Relevant Legislation" means Section 570 of the Companies Act 2014 (and the Service Provider shall not be deemed to be unable to pay its debts if any demand for payment is being contested in good faith by the Service Provider with recourse to all appropriate measures and procedures). For the purpose of this definition, Section 570 of the Companies Act, 2014 shall have effect as if for "€10,000" (in Section 570(a)) there was substituted "€50,000" and as if for "€20,000" (in Section 570(b)) theretherein was substituted "€100,000" or such higher figure as the Company may from time to time notify in writing to the Service Provider;

"Reserve Characteristic" means in relation to POR, SOR, TOR1, TOR2, FFR, and OFRthe Contracted Services the diagrams set out in Schedule 9;

# "Reserve DroopStep Sizes" means:

- Governor Droop if the Providing Unit is a Generation Unit or a Controllable WFPS;
- Interconnector Frequency Droop if the Providing Unit is an Interconnector; or in the event that the Providing Unit is not a Generation Unit, a Controllable WFPS or an Interconnector, the percentage drop in the Frequency that would cause the Providing Unit to change its provides POR, SOR and/or TOR1 from zero to its Contracted POR, SOR and/or TOR1 and/or FFR in discrete increases in MW Output or MW Reduction, the size of each discrete change in MW Output or MW Reduction and is set by the Company at a value between 0.2% and 2%:

"Reserve Trigger Scalar" has the meaning set out in Schedule;

"Rise Time" means, in relation to Reactive Current response from a Providing Unit, the length of time from Voltage Dip inception for Reactive Current to reach 90% of its steady-state value:

"Reserve Step Triggers" means, in the event that the Providing Unit provides, POR,SOR,TOR1 and/or FFR in discrete steps, the Frequency below which the Providing Unit shall provide the corresponding Reserve Step Size and is set by the Company:

"SCADA" or "(Supervisory Control and Data Acquisition") means the metering data collection system used by the TSOCompany for the storage, display and processing of metering data by the TSOCompany (currently comprising a communication system and computer system) or such other data collection system as the TSOCompany may reasonably specify to be used for such purpose with the prior agreement of the Regulatory Authority and after consultation; "Scaling Factor" means, in relation to a DS3 System Service, the scaling factor used in the calculation of payments for that DS3 System Service, as described in Schedules 2, 3 and 4 of this Agreement;

"Scheduled Outage" has the meaning given to it in the Grid Code;

"Secondary Operating Reserve" or "SOR" has the meaning given to it in the Grid Code;

"Service Provider's Installation" means any structures, equipment, lines, appliances or devices used or to be used by any Service Provider and connected or to be connected directly or indirectly to the Transmission System or to the Distribution System;

"Settling Time" means in relation to Reactive Current response from a Providing Unit, the length of time from Voltage Dip inception for Reactive Current to settle within +/-10% of its steady-state value;

"Single Electricity Market or "SEM" has the meaning given to it in the <u>Trading and Settlement</u> Code (TSC) and shall include any replacement wholesale all-island electricity market for Ireland and Northern Ireland;

"SNSP" or "System Non-Synchronous Penetration" means a value calculated by the Company which specifies the percentage of generation provided by non-Synchronous sources, including HVDC Interconnector imports, relative to the total all-island generation, where total all-island generation includes HVDC Interconnector exports.

"SOR-o" means the reduction in MW output (and/or increase in Demand) required compared to the pre-incident output (or Demand), which is fully available and sustainable between 15 seconds and 90 seconds after the Event;

"Start of Performance/ Acceptance Testing" has the meaning given in paragraph 10 of Schedule 4;

"Start of System Service Compliance Testing" has the meaning given in paragraph 12 of Schedule 4;

"State Estimator" means a system for estimating the value of a parameter;

"Static Response" means a response provided by the Providing Unit in discrete step increases in MW Output or discrete steps in MW Reduction;

"Static Steps Capability" means, in the event that the Providing Unit provides FFR in discrete increases in MW Output or MW Reduction, the maximum number of such discrete changes in MW Output or MW Reduction that the Providing Unit is capable of;

"Substantial Completion" has the meaning given in paragraph 4 of Schedule 4;

"Substantial Financial Completion" has the meaning given in paragraph 2 of Schedule 4;

"Supply Licence" means a licence to supply electricity granted pursuant to the Act;

"Synchronised" (and like terms) System" has the meaning given to it in the Grid Code;

"Synchronous Motor "System Operator" means a motor which is Synchronised to the Power System;

"Synchronous Providing Unit" means a Providing Unit which is connected and Synchronised to TSO or the Transmission System or Distribution DSO as appropriate;

### "System;

<u>"Synchronous Start-Up Time Cold"</u> <u>Services Compliance"</u> has the meaning given to it in the <u>Grid Codeparagraph 5 of Schedule 4</u>;

"Synchronous Start-Up Time Hot" has the meaning given to it in the Grid Code;

"Synchronous Start-Up Time Warm" has the meaning given to it in the Grid Code;

"Target Go-Live Date" means two (2) years after the Effective Date, as may be adjusted in accordance with Clauses 4.2 and unless the context otherwise requires, means 00:00 hours on that date;

"Technical Offer Data" has the meaning given to it in the Trading and Settlement Code;

"Technical Parameters" has the meaning given to it in the Grid Code;

"Technical Parameters Notice" has the meaning given to it in the Grid Code;

"Tender" means collectively the information, documentation and submissions provided by the Service Provider to the Company as part of the DS3 System Services procurement process.

"Tertiary Operating Reserve 1" or "TOR1" has the meaning given to it in the Grid Code;

"Tertiary Operating Reserve 2" or "TOR2" has the meaning given to it in the Grid Code;

"Temporal Scarcity Scalar" or "TSS" means a multiplicative factor which adjusts the payment to a Providing Unit for a given DS3 System Service. The value of the TSS for each of the DS3 System Services is defined in Schedule 2;

"Test Report" means a report submitted to the TSO on behalf of the Providing Unit which assesses its compliance with the requirements for providing a particular DS3 System Service;

"Time Weighted Average" means, in relation to a parameter (P) which has more than one value for a Trading Period, the time weighted average value of that parameter ("Parameter Value (Trading Period)"), calculated by the application of the following formula:

Parameter Value (Trading Period) =  $\sum_{Pv=1,N} \{(P_{V1} \times T_1)/TPD\}$ 

Where:

 $\sum_{Pv=1,N}$  is the summation for the N values of P during the Trading Period and where Pv=1 denotes the first value of P during the Trading Period;

 $T_1$  is the period (expressed in minutes) for which the value of P was equal to  $P_{v1}$  during the Trading Period; and

TPD is the Trading Period Duration;

"Total Project Spend" in respect of a Providing Unit, means the total amount of Capital Expenditure (excluding contingency) incurred, or expected in the reasonable opinion of the Service Provider to be incurred, either by the Service Provider or another person, in undertaking the relevant construction, repowering or refurbishment works and commissioning the Providing Unit so that it is in a position to provide the Contracted Services. For the purposes

of this definition, Captial Expenditure shall be determined in accordance with International Accounting Standard 16.

"Trading and Settlement Code" or "TSC" means the Single Electricity Market Trading and Settlement Code or any replacement thereof which sets out the rules for trading in electricity and settling energy imbalances and the responsibilities of parties to the code;

"Trading Period" has the meaning set outgiven to it in the Trading and Settlement Code (TSC;):

"Trading Period Duration" means a period equal to the duration of a Trading Period under the Trading and Settlement Code (as at the date of this Agreement it is 0.5 hours);

"Trading Period Payment" means, in relation a DS3 System Service and in relation to a Trading Period, the payment to which a Service Provider is entitled for providing the DS3 System Service(s) from the Providing Unit in that Trading Period as calculated under the relevant Sections of Schedule 2;

"Transmission System" has the meaning given to it in the Grid Code;

"Transmission System Operator" or "TSO" has the meaning given to it in the Grid Code;

**"TSO Licence"** means the licence to operate the Transmission System granted by the Regulatory Authority pursuant to Section 14(1) (e) of the Electricity Regulation Act;

"Under-Frequency Reserve Trigger" means the Frequency below which the Providing Unit shall provide POR, SOR, TOR1 and/or FFR as appropriate and is set by the Company;

"Under-Frequency Reserve Trigger Capability" means, in the event that the Providing Unit provides POR, SOR, TOR1 and/or FFR, the Frequency below which the Providing Unit is capable of providing POR, SOR, TOR1 and/or FFR as appropriate applicable;

"Use of System Agreement" means the agreement between the Company and the Service Provider which provides the right for the use of the All-Island Transmission Network;

"Value Added Tax" or "VAT" means the value added tax chargeable under the provisions of the Value Added Tax Act 1972 (as amended) or any tax on the supply of goods and or services which may hereafter replace or supplement value added tax;

"Voltage Zenith Frequency" means the voltage of maximum Frequency during the relevant section of the Power System;

"Voltage Dip" has the meaning given to it in the Grid Code;

"Warm" means a warm Warmth State;

"Warm Cooling Boundary" means the period of time, which must be greater than that defined by the Hot Cooling Boundary, post desynchronisation of a Providing Unit after which the Providing Unit's Warmth State transfers from being Warm to Cold;

"Warmth State" means either cold, warm, or hot, dependent upon the period of time which has elapsed post Desynchronisation of a Providing Unit relative to its Hot Cooling Boundary and its end Haling Bour reviding Unit is Warm Cooling Boundary, Up until the Hot Cooling Boundary, the Providing Unit is hot. At and below the Hot Cooling Boundary and up until the Warm Cooling Boundary, the Providing Unit is warm. At and below the Warm Cooling Boundary, the Providing Unit is cold;

#### Schedule 2

A Providing Unit must be available for the provision of all DS3 System Services under this Schedule;

#### **Operating Reserves**

#### 1 Operating Reserve Contracted Services

# 1. Required Services

The DS3 System Services Primary Operating Reserve, Secondary Operating Reserve, Tertiary Operating Reserve 1, Tertiary Operating Reserve 2 and FFR The provision of the Contracted Servies are covered by this Schedule 2.

#### 2. The provision Definition of Over-FFR

Fast Frequency Response (OFR) is also covered by FFR), for the purposes of this schedule Agreement, is the additional MW Output or MW Reduction required compared to the preincident MW Output or MW Reduction, which is fully available from a Providing Unit within 0.3 seconds after the start of an Event and sustainable up to 10 seconds after the start of the Event. The extra energy provided in the 0.3 to 10 second timeframe must be greater than any loss of energy in the 10 to 20 second timeframe due to a reduction in MW Output or MW Reduction below the pre-incident MW Output or MW Reduction.

#### 3. 2 Definition of FFR-o

Over-Frequency FFR (FFR-o), for the purposes of this Agreement, is the reduction in MW Output or MW Increase required compared to the pre-incident MW Output or MW Increase, which is fully available from a Providing Unit within 0.3 seconds after the start of an Event and sustainable up to 10 seconds after the start of the Event. The energy reduction provided in the 0.3 to 10 second timeframe must be greater than any gain of energy in the 10 to 20 second timeframe due to a reduction in MW Output or MW Increase below the pre-incident MW Output or MW Increase.

#### 2.4. Minimum Technical Requirements

The Service Provider must provide reserve in accordance with the technical requirements of the Grid Code and the relevant Operating Parameters of the Providing Unit.

Unless stated otherwise, all quantities used in reserve calculations are referenced at the Connection Point and conversion factors will be used to convert values that are not so provided where necessary.

The Company shall specify the <u>Under-Frequency</u> Reserve Trigger, <u>Reserve DroopOFR Trigger</u>, <u>FFR Trajectory</u>, FFR-o Trajectory, Reserve Step Sizes and Reserve Step Triggers as appropriate for <u>reserve.each Contracted Service</u>. Enabling and disabling <u>OFR Services</u>, <u>FFR</u>, POR, SOR and TOR1, and alterations to the <u>Under-Frequency</u> Reserve Trigger, <u>Reserve Droop,OFR Trigger</u>, <u>FFR Trajectory</u>, <u>FFR-o Trajectory</u>, Reserve Step Sizes, and Reserve Step Triggers may be requested in real-time by the Company and unless otherwise agreed by the Company, shall be implemented by the Providing Unit within <u>60 seconds2 weeks</u> of such request.

# 3.5. 3—Primary Operating Reserve (POR) - Available Volume, Payment and Performance Assessment

The basis for payments for Primary Operating Reserve (POR) is the calculation of the POR Available Volume of the Providing Unit over a Trading Period. The MW Output or MW Reduction and Availability of the Providing Unit for the Trading Period form the basis for calculating POR Available Volume. The POR Available Volume is the lesser of:

(i) the value of the reserve obtained from the POR Reserve Characteristic adjusted by the average Availability of the Providing Unit; and

(ii) the Declared POR of the Providing Unit for the Trading Period.

The POR Available Volume for the Trading Period (as calculated in accordance with Section 0 of this Schedule) is multiplied by the POR Payment Rate to determine the payment to be made to the Service Provider for the Trading Period as set out in Section 3.1 of this Schedule 2... The payment for the Trading Period shall be adjusted by the POR Scaling Factor.

#### 3.1.5.1. 3.1 POR Available Volume

The Available Volume of the Providing Unit to provide POR in a Trading Period will be determined from the lesser of:

a) (a) the value of the reserve obtained from the POR Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the POR Reserve

Characteristic has been adjusted to reflect the Time Weighted Average Availability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the POR Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period; and

b) (b) the Declared POR of the Providing Unit-; and

#### c) Where athe maximum of

- <u>i.</u> the Providing Unit has a Unit's Firm Access Quantity, if the Available Volume is reduced due to Network Congestion, the lower of : and
- the Firm Access Quantity or the Declared POR ability of the Transmission

  System or Distribution System to accommodate the provision of POR from

  the Providing Unit-will be used to calculate POR Available Volume, taking into account any Network Congestion.

### 3.2.5.2. 3.2 POR Payments

The Service Provider will receive a payment for each MW of POR Available Volume it provides from the Providing Unit in each Trading Period determined in accordance with the following provisions of this Section 03.2. Unless stated otherwise, all parameters used in the calculation of such payments are the Time Weighted Average for a Trading Period.

The payment to the Service Provider for <u>the POR Available Volume of the Providing Unit</u> in a Trading Period is determined as:

POR Trading Period Payment = POR Available Volume × POR Payment Rate x POR Scaling Factor × Trading Period Duration

# Where:

- a) POR Available Volume (expressed in MW) is the Available Volume of the Providing Unit in respect of POR and is calculated in accordance with Section 03.1;
- b) POR Payment Rate is the Payment Rate (expressed in €/MWh) applicable to POR;
- c) POR Scaling Factor = POR Event Performance Scalar x POR Availability Performance Scalar x POR Locational Scalar x POR Temporal Scarcity Scalar; and

d) the Trading Period Duration is expressed in hours.

For the purposes of Section 3.2(c) above, the value of the POR Locational Scalar is as defined in Schedule 9 and shall have a value equal to 1;

For the purposes of Section 3.2(c) above, the POR Temporal Scarcity Scalar is an amount equal to X [To be defined and published at least 1 month prior to procurement]2.76.

#### 3.3.5.3. 3.3 Assessment of POR Event Performance

In order to assess the quality of delivery of POR when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of POR performance is carried out at, and the timedetermination of the Nadir Frequency during the POR time range of T+5 seconds to T+15 seconds (the "POR Period"). The value of the POR Event Performance Scalar will be determined based on whether the result of the Performance Assessment is a Pass or Fail, is carried out in accordance with the Protocol.

#### 3.4 Assessment of POR Availability Performance

In order to assess the quality of the availability of POR, the POR Availability Performance Scalar will be calculated in accordance with Section 9 of this schedule.

# 4.6. 4—Secondary Operating Reserve (SOR) - Available Volume, Payment and Performance Assessment

The basis for payments for Secondary Operating Reserve (SOR) is the calculation of the SOR Available Volume of the Providing Unit over a Trading Period. The average MW Output or average MW Reduction and Availability of the Providing Unit for the Trading Period form the basis for calculating SOR Available Volume. The SOR Available Volume is the lesser of:

(i) the value of the reserve obtained from the SOR Reserve Characteristic adjusted by the average Availability of the Providing Unit; and

# (ii) the Declared SOR of the Providing Unit for the Trading Period.

The SOR Available Volume <u>effor</u> the <u>Providing UnitTrading Period</u> (as calculated in accordance with Section 6.14.1) for the <u>Trading Period</u> of this <u>Schedule</u>) is multiplied by the SOR Payment Rate to determine the payment to be made to the Service Provider for the Trading Period. The payment for the Trading Period shall be adjusted by the SOR Scaling Factor.

#### 4.1.6.1. 4.1 SOR Available Volume

The Available Volume of the Providing Unit to provide SOR in a Trading Period will be determined from the lesser of:

- a) (a)—the value of the reserve obtained from the SOR Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the SOR Reserve Characteristic has been adjusted to reflect the Time Weighted Average Availability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the SOR Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period; and
- b) (b) the Declared SOR of the Providing Unit. and

#### c) Where athe maximum of

- <u>iii.</u> the Providing Unit has a Unit's Firm Access Quantity, if the Available Volume is reduced due to Network Congestion, the lower of; and
- the Firm Access Quantity or the Declared SOR ability of the Transmission

  System or Distribution System to accommodate the provision of SOR from

  the Providing Unit-will be used to calculate SOR Available Volume, taking into account any Network Congestion.

### 4.2.6.2. 4.2 SOR Payments

The Service Provider will receive a payment for each MW of SOR Available Volume it provides from the Providing Unit in each Trading Period determined in accordance with the following provisions of this Section 04.2. Unless stated otherwise, all parameters used in the calculation of such payments are the Time Weighted Average for a Trading Period.

The payment to the Service Provider for SOR Available Volume of the Providing Unit in a Trading Period is determined as:

SOR Trading Period Payment = SOR Available Volume × SOR Payment Rate × SOR Scaling Factor × Trading Period Duration

#### Where:

- a) SOR Available Volume (expressed in MW) is the Available Volume of the Providing Unit in respect of SOR and is calculated in accordance with Section 46.1;
- b) SOR Payment Rate is the Payment Rate (expressed in €/MWh) applicable to SOR:
- c) SOR Scaling Factor = SOR Event Performance Scalar x SOR Availability Performance Scalar x SOR Locational Scalar x SOR Temporal Scarcity Scalar; and
- d) the Trading Period Duration is expressed in hours.

For the purposes of Section 4.2(c) above, the SOR Temporal Scarcity Scalar is X [To be defined and published at least 1 month prior to procurement]: 2.76.

#### 4.3.6.3. 4.3 Assessment of SOR Event Performance

In order to assess the quality of delivery of SOR when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of SOR performance is carried out during, and the entire SOR time rangedetermination of T+15 seconds to T+90 seconds (the "SOR Period"). the value of the SOR Event Performance Scalar will be determined based on whether, is carried out in accordance with the result of the Performance Assessment is a Pass or FailProtocol.

# 4.4 Assessment of SOR Availability Performance

In order to assess the quality of the availability of SOR, the SOR Availability Performance Scalar will be calculated in accordance with Section 9 of this schedule.

# 5-7. 5—Tertiary 1 Operating Reserve (TOR1) - Available Volume, Payment and Performance Assessment

The basis for payments for Tertiary Operating Reserve 1 (TOR1) is the calculation of the TOR1 Available Volume of the Providing Unit over a Trading Period. The average MW Output or average MW Reduction and Availability of the Providing Unit for the Trading Period form the basis for calculating TOR1 Available Volume. The TOR1 Available Volume is the lesser of:

(i) the value of the reserve obtained from the TOR1 Reserve Characteristic adjusted by the average Availability of the Providing Unit and

(ii) the Declared TOR1 of the Providing Unit for the Trading Period.

The TOR1 Available Volume (as calculated in accordance with Section 7.15.1) for the Trading Period is multiplied by the TOR1 Payment Rate to determine the payment to be made to the Service Provider for the Trading Period. The payment for the Trading Period shall be adjusted by the TOR1 Scaling Factor.

### 5.1.7.1. — 5.1 TOR1 Available Volume

The Available Volume of the Providing Unit to provide TOR1 in a Trading Period will be determined from the lesser of:

a) (a) the value of the reserve obtained from the TOR1 Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the TOR1 Reserve Characteristic has been adjusted to reflect the Time Weighted Average Availability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the TOR1 Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period; and

b) (b)—the Declared TOR1 of the Providing Unit-and

#### c) Where athe maximum of

- v. the Providing Unit has a Unit's Firm Access Quantity, if the Available Volume is reduced due to Network Congestion, the lower of ; and
- the Firm Access Quantity or the Declared SORability of the <u>Transmission</u>

  System or <u>Distribution System to accommodate the provision of TOR1</u>

  from the Providing Unit—will be used to calculate TOR1 Available Volume,

  taking into account any Network Congestion.

#### 5.2.7.2. 5.2 TOR1 Payments

The Service Provider will receive a payment for each MW of TOR1 Available Volume it provides from the Providing Unit in each Trading Period determined in accordance with the following provisions of this Section 05.2. Unless stated otherwise, all parameters used in the calculation of such payments are the Time Weighted Average for a Trading Period.

The payment to the Service Provider for TOR1 Available Volume of the Providing Unit in a Trading Period is determined as:

TOR1 Trading Period Payment = TOR1 Available Volume × TOR1 Payment Rate × TOR1 Scaling Factor × Trading Period Duration

#### Where:

- a) TOR1 Available Volume (expressed in MW) is the Available Volume of the Providing Unit in respect of TOR1 and is calculated in accordance with Section 7.15.1;
- b) TOR1 Payment Rate is the Payment Rate for TOR1 (expressed in €/MWh); and
- c) TOR1 Scaling Factor = TOR1 Event Performance Scalar x TOR1 Availability Performance Scalar x TOR1 Locational Scalar x TOR1 Temporal Scarcity Scalar;
- d) the Trading Period Duration is expressed in hours.

For the purposes of Section 5.2(c) above, the value of the TOR1 Locational Scalar is as defined in Schedule 9 and shall have a minimum value equal to 1;

For the purposes of Section 5.2(c) above, the TOR1 Temporal Scarcity Scalar is an amount equal to X [To be defined and published at least 1 month prior to procurement]:2.76.

#### 5.3.7.3. — 5.3 Assessment of TOR1 Event Performance

In order to assess the quality of delivery of TOR1 when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of TOR1 performance is carried out during, and the entire TOR1 time rangedetermination of T+90 seconds to T+300 seconds (the "TOR1 Period"). the value of the TOR1 Event Performance Scalar will be determined based on whether, is carried out in accordance with the result of the Performance Assessment is a Pass or Fail.Protocol

#### 5.4 Assessment of TOR1 Availability Performance

In order to assess the quality of the availability of TOR1, the TOR1 Availability Performance Scalar will be calculated in accordance with Section 9 of this schedule,

# 6.8.6—Tertiary 2 Operating Reserve (TOR2) - Available Volume, Payment and Performance Assessment

The basis for payments for Tertiary Operating Reserve 2 (TOR2) is the calculation of the TOR2 Available Volume of the Providing Unit over a Trading Period. The average MW Output or average MW Reduction and Availability of the Providing Unit for the Trading Period form the basis for calculating TOR2 Available Volume. The TOR2 Available Volume is the lesser of;

(i) the value of the reserve obtained from the TOR2 Reserve Characteristic adjusted by the average Availability of the Providing Unit; and

(ii) the Declared TOR2 of the Providing Unit for the Trading Period.

The TOR2 Available Volume (as calculated in accordance with Section 06.1)) for the Trading Period is multiplied by the TOR2 Payment Rate to determine the payment to be made to the Service Provider for the Trading Period. The payment for the Trading Period shall be adjusted by the TOR2 Scaling Factor.

# 6.1.8.1. 6.1 TOR2 Available Volume

The Available Volume of the Providing Unit to provide TOR2 in a Trading Period will be determined from the lesser of:

- a) (a) the value of the reserve obtained from the TOR2 Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the TOR2 Reserve Characteristic has been adjusted to reflect the Time Weighted Average Availability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the TOR2 Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period; and
- b) (b) the Declared TOR2 of the Providing Unit-: and

# c) Where athe maximum of

<u>vii.</u> the Providing <u>Unit has aUnit's</u> Firm Access Quantity, if the Available Volume is reduced due to Network Congestion, the lower of ; and

the Firm Access Quantity or the Declared SORability of the <u>Transmission</u>

System or Distribution System to accommodate the provision of TOR2

from the Providing Unit—will be used to calculate TOR2 Available Volume, taking into account any Network Congestion.

#### 6.2.8.2. TOR2 Payments

The Service Provider will receive a payment for each MW of TOR2 Available Volume it provides from the Providing Unit in each Trading Period determined in accordance with the following provisions of this Section 8.26.2. Unless stated otherwise, all parameters

used in the calculation of such payments are the Time Weighted Average for a Trading Period.

The payment to the Service Provider for TOR2 Available Volume of the Providing Unit in a Trading Period is determined as:

TOR2 Trading Period Payment = TOR2 Available Volume × TOR2 Payment Rate × TOR2 Scaling Factor × Trading Period Duration

#### Where:

- a) TOR2 Available Volume (expressed in MW) is the Available Volume of the Providing Unit in respect of TOR2 and is calculated in accordance with Section 06.1;
- b) TOR2 Payment Rate is the Payment Rate for TOR2 (expressed in €/MWh) applicable to TOR2;);
- c) TOR2 Scaling Factor = TOR2 Event Performance Scalar x TOR2 Availability Performance Scalar x TOR2 Locational Scalar x TOR2 Temporal Scarcity Scalar; and
- d) the Trading Period Duration is expressed in hours.

For the purposes of Section 6.2(c) above, the value of the TOR2 Locational Scalar is as defined in Schedule 9 and shall have a minimum value equal to 1;

For the purposes of Section 6.2(c) above, the TOR2 Temporal Scarcity Scalar is X [To be defined and published at least 1 month prior to procurement]::2.76.

### 6.3.8.3. 6.3 Assessment of TOR2 Event Performance

In order to assess the quality of delivery of TOR2 when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of TOR2 performance is carried out for, and the entire TOR2 time rangedetermination of T+5 minutes to T+20 minutes (the "TOR2 Period"). the value of the TOR2 Event Performance Scalar will be determined based on whether, is carried out in accordance with the result of the Performance Assessment is a Pass or FailProtocol.

#### FFR Definition of Service

# 7.9. Fast Frequency Response - Available Volume, Payment and Performance Assessment

Fast Frequency Response (FFR) is the additional MW Output or MW Reduction required compared to the pre-incident MW Output or MW Reduction, which is fully available from a Providing Unit within 300 ms after the start of an Event and sustainable up to 10 seconds after the start of the Event. The extra energy provided in the 0.3 to 10 second timeframe must be greater than any loss of energy in the 10 to 20 second timeframe due to a reduction in MW Output or MW Reduction.

#### 7.1 Minimum Technical Requirements

The Service Provider must provide Fast Frequency Response in accordance with the technical requirements of this Schedule and the relevant Operating Parameters for the Providing Unit.

The Company shall specify the Reserve Trigger, Reserve Droop, FFR Trajectory, Reserve Step Sizes and Reserve Step Triggers as appropriate. Enabling and disabling FFR and alterations to the Reserve Trigger, Reserve Droop, FFR Trajectory, Reserve Step Sizes and Reserve Step Triggers may be requested in real-time by the Company and, unless otherwise agreed by the Company, shall be implemented by the Providing Unit within 60 seconds.

Unless stated otherwise, all quantities used in FFR calculations are referenced at the Connection Point and conversion factors will be used to convert values that are not so provided where necessary.

7.2 Fast Frequency Response - Available Volume, Payment and Performance Assessment

The basis for payments for Fast Frequency Response (FFR) is the calculation of the FFR Available Volume of the Providing Unit over a Trading Period. The MW Output or MW Reduction and Availability of the Providing Unit for the Trading Period form the basis for calculating FFR Available Volume. The payment for the Trading Period shall be adjusted by the FFR Scaling Factor of the Providing Unit.

#### 7.1.9.1. 7.2.1 FFR Available Volume

The Available Volume of the Providing Unit to provide FFR in a Trading Period will be determined from the lesser of:

- a) the value of the reserve obtained from the FFR Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the FFR Reserve Characteristic has been adjusted to reflect the Time Weighted Average Availability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the FFR Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period; and
- b) the Declared FFR of the Providing Unit.; and

#### Where a

#### c) the maximum of

- i. the Providing Unit has a Unit's Firm Access Quantity, if the Available Volume is reduced due to Network Congestion, the lower of; and
- the Firm Access Quantity or the Declared SORability of the Transmission System or

  Distribution System to accommodate the provision of FFR from the Providing Unit

  will be used to calculate FFR Available Volume, taking into account any Network

  Congestion.

#### 7.2.9.2. 7.2.2 FFR Payments

The Service Provider will receive a payment for each MW of FFR Available Volume it provides from the Providing Unit in each Trading Period determined in accordance with the following provisions of this Schedule 2. Unless stated otherwise, all parameters used in the calculation of such payments are the Time Weighted Average for a Trading Period.

The payment to the Service Provider for FFR Available Volume of the Providing Unit in a Trading Period is determined as:

FFR Trading Period Payment = FFR Available Volume x FFR Payment Rate x FFR Scaling Factor x Trading Period Duration

#### Where:

- a) FFR Available Volume (expressed in MW) is the Available Volume of the Providing Unit in respect of FFR and is calculated in accordance with this Schedule;
- b) FFR Payment Rate is the Payment Rate (expressed in €/MWh) applicable to FFR
- c) FFR Scaling Factor = FFR <u>Event</u> Performance <u>Event</u> Scalar x <u>FFR Performance</u>
  Availability <u>Performance Scalar x FFR Temporal Scarcity</u> Scalar x FFR Fast Response Scalar <u>x FFR Locational Scalar</u>; and
- d) the Trading Period Duration is expressed in hours.

### 7.2.3 FFR Fast Response

For the purposes of Section 3.2(c) above, the FFR Temporal Scarcity Scalar is 2.29.

<u>For the purposes</u> of <u>this of Schedule(c)</u> above, the FFR Fast Response Scalar is an amount equal to:

- 3 in the event that the FFR Response Time is = 0.15 seconds; or
- ((0.5 FFR Response Time)/(0.35)) +2 in the event that 0.15 < FFR Response Time</li>
   <0.3 seconds;</li>

#### 7.2.4 FFR Locational Scalar

For the purposes of Section 3.2(c) above, the value of the FFR Locational Scalar is as defined in Schedule 9 and shall have a minimum value equal to 1;

# 7.2.5 FFR Temporal Scarcity Scalar

For the purposes of Section 3.2(c) above, the FFR Temporal Scarcity Scalar is X [To be defined and published at least 1 month prior to procurement]::

7.3.9.3. 7.3 Assessment of FFR Performance

In order to assess the quality of delivery of FFR when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of FFR performance, and the determination of the value of the FFR Event Performance Scalar will be determined based on whether the result of the Performance Assessment, is a Pass or Failcarried out in accordance with the Protocol.

# 8-10. 8. OFR Definition of Service Over-frequency POR (POR-o) - Available Volume and Performance Assessment

The MW Output or MW Reduction and Availability of the Providing Unit for the Trading Period form the basis for calculating OFR Available Volume. The OFR Available Volume is the lesser of:

(i) the value of the reserve obtained from the OFR Reserve Characteristic adjusted by the average Demand Consumption of the Providing Unit; and

(ii) the Declared OFR of the Providing Unit for the Trading Period.

#### 8.1.10.1. 8.1 OFRPOR-o Available Volume

The Available Volume of the Providing Unit to provide OFRPOR-o in a Trading Period will be determined from the lesser of:

- a) (a)—the value of the reserve obtained from the OFRPOR-o Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the OFRPOR-o Reserve Characteristic has been adjusted to reflect the Time Weighted Average Demand ConsumptionAvailability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the OFRPOR-o Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period; and
- b) the Declared OFRPOR-o of the Providing Unit-; and

#### c) Where athe maximum of

- <u>i.</u> the Providing Unit has a Unit's Firm Access Quantity, if the Available Volume is reduced due; and
- the ability of the Transmission System or Distribution System to accommodate the provision of POR-o from the Providing Unit, taking into account any Network Congestion, the lower of the Firm Access Quantity or the Declared SOR of the Providing Unit will be used to calculate OFR Available Volume.

### 8.2.10.2. 8.2 Assessment of OFRPOR-o Event Performance

In order to assess the quality of delivery of OFRIn order to assess the quality of delivery of POR-o when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of POR-o performance, and the determination of the value of the POR-o Event Performance Scalar, is carried out in accordance with the Protocol.

### 11. Over-frequency SOR (SOR-o) - Available Volume and Performance Assessment

#### 11.1. SOR-o Available Volume

The Available Volume of the Providing Unit to provide SOR-o in a Trading Period will be determined from the lesser of:

- a) the value of the reserve obtained from the SOR-o Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the SOR-o Reserve Characteristic has been adjusted to reflect the Time Weighted Average Availability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the SOR-o Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period; and
- b) the Declared SOR-o of the Providing Unit; and
- c) the maximum of
  - i. the Providing Unit's Firm Access Quantity; and

ii. the ability of the Transmission System or Distribution System to accommodate the provision of SOR-o from the Providing Unit, taking into account any Network Congestion.

#### 11.2. Assessment of SOR-o Event Performance

In order to assess the quality of delivery of SOR-o when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of SOR-o performance, and the determination of the value of the SOR-o Event Performance Scalar, is carried out in accordance with the Protocol.

#### 12. FFR-o Available Volume and Performance Assessment

#### 12.1. FFR-o Available Volume

The Available Volume of the Providing Unit to provide FFR-o in a Trading Period will be determined from the lesser of:

- a) the value of the reserve obtained from the FFR-o Reserve Characteristic for the Time Weighted Average MW Output or MW Reduction, where the FFR-o Reserve Characteristic has been adjusted to reflect the Time Weighted Average Availability of the Providing Unit (expressed in MW) in the manner described in the example set out in Schedule 9. The relevant value on the FFR-o Reserve Characteristic will be determined from the average MW Output or the average MW Reduction (expressed in MW) over the Trading Period;
- b) the Declared FFR-o of the Providing Unit; and
- c) the maximum of
  - i. the Providing Unit's Firm Access Quantity; and
  - ii. the ability of the Transmission System or Distribution System to accommodate the provision of POR-o from the Providing Unit, taking into account any Network Congestion.

## 12.2. Assessment of FFR-o Performance

In order to assess the quality of delivery of FFR-o when required by the Power System, the Providing Unit will be monitored and assessed during an Event by the Company. The assessment of FFR-o performance, and the determination of the value of the OFRFFR-o Event Performance Scalar-will be determined based on whether the result of the Performance Assessment, is a Pass or Failcarried out in accordance with the Protocol.

#### 8.3 Assessment of OFR Availability Performance

In order to reflect the quality of the availability of OFR, the OFR Availability Performance Scalar will be calculated in accordance with Section 9 of this schedule,

#### 9. Availability Assessment of FFR, POR, SOR, TOR1, TOR2 and OFR

The value of the Availability Performance Scalar will be dependent on the combined availability of POR, SOR, TOR1, TOR2, FFR and OFR.

#### 9.1 Availability Performance Scalar

The value of the Availability Performance Scalar will be determined based on the Total Availability Factor, in accordance with the following table. The Total Availability Factor will be calculated based on the combined availability of POR, SOR, TOR1, TOR2, FFR and OFR in accordance with the Protocol document.

Total Availability Factor	Availability Performance Scalar
<60%	0%
≥60% <70%	25%
≥70% <80%	50%
≥80% <90%	70%
≥90% <95%	85%
≥95% <97%	95%
≥97%	100%

The Total Availability Factor will be calculated based on the combined Available Volumes of FFR, POR, SOR, TOR1, TOR2, FFR-o, POR-o, and SOR-o in accordance with the Protocol.

## Billing and Payment Plan

#### 1. Statement of Account and Invoicing

- 1.1 Within twenty five (25) Business Days after the end of each Charging Period, the Company shall submit to the Service Provider a statement of account (the "**Statement**") specifying:
  - (i) (i) the volume of DS3 System Service(s) provided, and
  - (ii) (iii) the DS3 System Services Payments due in respect of that Charging Period.

The Company shall use its reasonable endeavours to provide to the Service Provider such reasonable information as may be required to enable the Service Provider to verify the DS3 System Services provided for that Charging Period. Such information shall be based on data from Meters and other systems the Company may use. If, following a Charging Period, the Company is unable to obtain all or part of the information necessary to prepare a Statement, in respect of that Charging Period, then the Company shall make such estimates as are necessary to prepare a Statement for the Charging Period and provide the Service Provider with the basis for such estimates.

- 1.2 Following confirmation by the Company of the actual DS3 System Services provided and calculation of the correct payments due, then the Statement for the subsequent Charging Period will be revised up or down accordingly.
- 1.3 Within ten (10) Business Days after the date on which the Company submits to the Service Provider a Statement, the Service Provider shall either:
  - (a) where the Service Provider agrees with the Statement's accuracy, submit to the Company an invoice for the same aggregate amount as is specified in the Statement (the "Invoice") together with a written notice confirming the accuracy of the Statement; or

- (b) where the Service Provider disputes the Statement's accuracy, submit to the Company an Invoice for such sum as the Service Provider, acting in good faith, believes is due together with a written notice (the "Claim") specifying the sum disputed and the grounds of such dispute. For the avoidance of doubt, the Service Provider is only permitted to issue an Invoice for the aggregate amount specified in the Statement. This does not prejudice the Service Provider's claim for resettlement of disputed amounts. Any claim under this Section 1.3 shall be subject to the dispute resolution mechanism set out in Section 3 below.
- 1.4 The Service Provider shall be deemed to have agreed with the accuracy of the Statement if it fails to submit the Claim to the Company in accordance with Section 1.3.
- 1.5 Nothing in Sections 1.3 or 1.4 above shall prevent either Party from disputing information contained in or referred to in a Statement or an Invoice at any time where it is reasonable in all circumstances to do so, which includes in the case of fraud or manifest error. No dispute in respect of a Statement and/or invoice shall be raised after the first anniversary of the date of such Statement or Invoice.

## 2. Invoice Payment Date

- 2.1 Subject to Clause 5. 2.3, within ten (10) Business Days after the Company's receipt of the Invoice, the Company shall pay to the Service Provider the sum due in respect of the Invoice by electronic transfer of funds to such bank account as may be specified in Schedule 9 or otherwise communicated in writing to the Company, quoting the invoice number against which payment is made.
- 2.2 Subject to Section 3, if any amount included in the Invoice remains unpaid after the time period stated in Section 2.1, then the Service Provider shall be entitled to charge interest on the amount unpaid, including interest on any Value Added Tax unpaid, in accordance with the European Communities (Late Payments in Commercial Transactions) Regulations 2012.

# 3. Billing and Payment Reconciliation and Dispute Resolution Mechanism

- 3.1 Where the Service Provider pursuant to Section 1.3 (b) disputes the Statement or the Invoice and submits a Claim to the Company:
  - (a) the Parties shall use reasonable endeavours to resolve the dispute in good faith; or
  - (b) where the dispute remains unresolved forty (40) Business Days after the Company's receipt of the Claim, either Party may refer the dispute for resolution by the Expert in accordance with the Dispute Resolution Procedure; and
- (c) (e) following resolution of the dispute, any amount agreed or determined to be payable shall be paid within ten (10) Business Days after such agreement or determination and interest shall accrue on such amounts plus Valued Added Tax (if any) from the date such amount was originally due until the date of payment in accordance with the European Communities (Late Payments in Commercial Transactions) Regulations 2012.

#### Performance **Bond**-Milestones

- 1.1 The Performance Bend-Milestones will apply with respect to for the payment and collection of bends Providing Unit are detailed in accordance with Section 4
  - 1. For the period between execution of Table below. The Service Provider is required to provide Implementation Progress Reports to the contract and the beginning of service delivery as defined in this agreement, the TSO against each of these Performance Milestones outlined in the following table will apply. The table also outlines the deadlines by which these milestones must be met and the required information and/or evidence from providers in order to fulfil each milestone. as set out in Clause 4.1.4

[Note: the Milestone Deadlines below will be based on information in the Service Provider's Implementation Plan provided at the second tender stage ]

Performance Milestone:	Milestone Deadline:	Completion Condition: Information
(Where applicable) Connection  Agreement Effective Date	[1]	On acceptance of a Connection Offer.
Consents Issue Date (as defined in	[1.]	See Paragraph 2On receipt by the
the Connection		TSO of a grant of planning
Agreement)Substantial Financial		permission for the development, the
Completion		MIC bond, insurances and relevant
401		consents. in this Schedule
Connection works Completion Date	[•]	See Paragraph 3On receipt by the
(endCommencement of		TSO of all testing certificates, safety
Construction Period)Works		file and as-built drawings after
		<del>precomissioning handover is</del>
		complete. in this Schedule
Energisation Date (As defined in the	[•]	See Paragraph 4When the TSO
Connection Agreement)Substantial		issues an Energisation Instruction in
Completion		this Schedule

Operational Date (As defined in the	<del>[*]</del>	On receipt of Operational Certificate.
Connection Agreement)		
Go-Live Date (As defined in this	[•]	As defined See Paragraph 5 in this
Agreement)System Service		AgreementSchedule
Compliance		

#### 2. Substantial Financial Completion is achieved when:

- a. all the Major Contracts and Finance Documents in respect of the construction, commissioning, repowering or refurbishment works for the Providing Unit are in full force and effect;
- b. every Condition Precedent under each of the documents referred to in subparagraph (a) has either been satisfied or waived in accordance with the terms of the relevant document;
- c. the Service Provider has, or will have, sufficient financial resources available to it or committed financing under the Finance Documents to meet the Total Project Spend;
- d. the directors of the Service Provider (or equivalent body, entity or person in the case of a Service Provider not being a company) have resolved, agreed or given approval (as the case may be) to complete (or procure the completion of) the relevant construction, commissioning, repowering or refurbishment works such that the Providing Unit will have reached Substantial Completion on or prior Target Go-Live Date; and
- e. all necessary consents, licences, authorisations and permits in respect of the construction, commissioning, repowering or refurbishment works for the Providing Unit (including any necessary planning consents, licences, authorisations and permits) have been obtained.

#### 3. Commencement of Construction Works is achieved when:

 a. an engineering, procurement and construction (EPC) contract (or any contract or suite of contracts having the same effect) is in full force and effect in respect of the Providing Unit; and;  b. work specific to on-site construction of the Providing Unit has commenced which, for the avoidance of doubt, does not include design work, minor civil works or works to prepare the site for construction work;

#### 4. Substantial Completion is achieved when:

- a. all the construction, repowering or refurbishment works associated with the Providing
   Unit are substantially complete (subject only to snag or punch list items or any other
   matters which do not prevent substantial completion or taking over the works taking
   place under the applicable Major Contracts);
- b. an Operational Certificate or Final Operational Notification has been issued under the applicable Grid Code in respect of the Providing Unit;
- c. the volume of TOR2 which the Providing Unit can provide in respect of the Contracted volume for TOR2 is not less than 90%; and
- d. the Providing Unit has met all Trading and Settlement Code and Grid Code requirements for participating in the Balancing Market, where participation in the Balancing Market is mandatory for the Providing Unit.

#### 5. System Services Compliance is achieved when:

a. the Providing Unit has been issued a Company-approved DS3 System Services Test Report which confirms the Providing Unit's ability to provide the Contracted Services under this Agreement.

#### **Additional Reporting Milestones**

6. The Additional Reporting Milestones for the Providing Unit are detailed in the table below.
The Service Provider is required to provide Implementation Progress Reports to the TSO against each of these Additional Reporting Milestones as stated in Clause 4.1.4.

Additional Reporting Milestone:	Milestone Deadline:	Completion Information

Mechanical Completion	Ŀ	See Paragraph 7 in this Schedule
Completion of Network Connection	[•]	See Paragraph 8 in this Schedule
First Energy to Network		See Paragraph 9 in this Schedule
Start of Performance/ Acceptance	<u>•</u>	See Paragraph 10 in this Schedule
Testing		
Provisional Acceptance/ Completion	[·]	See Paragraph 11 in this Schedule
of Performance Testing		
		_6
Start of System Service Compliance	[·]	See Paragraph 12 in this Schedule
Testing		000

- 7. Mechanical Completion is achieved when the Providing Unit's primary mechanism to generate electricity is installed on-site.
- 8. Completion of Network Connection is achieved when the Providing Unit can be electrically connected to the power system via activation of one or more switches and that all requirements for completion of network Connection under the applicable Grid Code and the applicable Connection Agreement are in place.
- 9. First Energy to Network is achieved when an Interim Operational Notification has been issued under the applicable Grid Code in respect of the Providing Unit:
- 10. Start of Performance/ Acceptance Testing is achieved when testing of the Providing Unit has commenced.
- 11. Provisional Acceptance/ Completion of Performance Testing is achieved when testing of the Providing Unit is scucesully completed.

12. Start of System Service Compliance Testing is achieved when testing of the Providing Unit's capability for the delivery of the Contracted Services under this agreement has commenced.

#### **Dispute Resolution Procedure**

- 1 Either Party may notify the other Party following the occurrence or discovery of any item or event which the notifying Party acting in good faith considers to be a dispute under this Agreement.
- Within fifteen (15) Business Days of the notice in <a href="Paragraphsection">Paragraphsection</a> 1, either Party ("first Party") may, if considered appropriate and by further notice to the other Party ("second Party"), appoint a senior company official with expertise in the area of dispute to represent it. The second Party shall then also appoint a senior company official with expertise in the area of dispute to represent it and shall notify the first Party accordingly within a further ten (10) Business Days. The Parties shall procure that their respective representatives meet within ten (10) Business Days after the date of the second Party's notice and attempt in good faith to satisfactorily resolve the dispute.
- If the dispute shall fail to be resolved pursuant to section 2 within thirty (30) Business Days of the meeting referred to then, save where expressly stated to the contrary, either Party may refer the matter to the Regulatory Authority for resolution.
- 4. If the dispute is of a type which a provision of this Agreement states may be referred for resolution by an Expert, the following provisions shall apply between the Parties in relation to such dispute:
  - a) The Expert shall be appointed by the Parties, or in default of agreement upon such appointment within seven (7) days of a Party notifying the other Party of its decision to refer the matter to an Expert, the Expert shall be appointed by the President for the time being of Engineers Ireland in the case of a technical dispute and the President for the time being of Chartered Accountants Ireland in the case of a financial dispute.

- b) The Parties will refer matters, differences or disputes in issue between them to the appropriate Expert as determined by the reasonable agreement of the Parties. If the Parties do not agree upon whether the dispute is a technical or financial dispute within seven (7) days of a Party notifying the other Party of its decision to refer the matter to an Expert, the Expert shall be appointed by the President for the time being of Chartered Accountants Ireland.
- c) The Expert will resolve or settle such matter or dispute in such manner as he shall in his absolute discretion see fit. The Expert shall be requested to reach his decision determination within thirty (30) days of the matter being referred to him. Any decision of the Expert shall be final and binding on the Parties.
- d) Unless otherwise determined by the Expert, the costs of the Expert in settling or determining such matter or dispute shall be borne equally by the Parties.
- e) The Expert shall act as an expert and not as an arbitrator and the arbitration acts shall not apply.

# Address Details, Billing Address of EirGrid and Address Details of the Service Provider

EirGrid plc

1.

a)	Registered Address	
	EirGrid plc	O,
	The Oval	S
	160 Shelbourne Road	5
	Ballsbridge	0
	Dublin 4	
	For the attention of	Chief Executive
b)	Billing Address	
	Accounts Payable	
	EirGrid plc	
	The Oval	
	160 Shelbourne Road	
	Ballsbridge	
	Dublin 4	
<u> </u>	For the attention of	Accounts Payable
2.	SERVICE PROVIDER	
	[insert address]	
	For the attention of	[ <mark>insert name</mark> ]

# **Banking Details of the Service Provider**

			Oc
SERVICE PROVIDER			65
Bank Name			05
Address			2
		80	
	. (		
Account Name	~ 0		
Sort Code			
Account Number			
(O)			
(3)			
)`			

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#### **Operational Requirements**

- 1. A Providing Unit must comply with the relevant Operational Requirements for POR, SOR, TOR1, TOR2, FFR and OFRthe Contracted Services as listed in this Schedule.
- 2. A Providing Unit's compliance with the Operational Requirements shall require successful completion of an initial Compliance Test and be subject to ongoing monitoring. The Company may require a Providing Unit to undergo additional Compliance Tests during the term of the Agreement. The Company will not be liable for any costs arising from the Compliance Tests.
- 3. A Providing Unit shall comply with the following Operational Requirements:
  - a) The provision of the five under frequency system services (excluding OFR) simultaneously should not impact on the ability of the Providing Unit to provide any one of those services.
  - b)a)The Available Volumes declared by a Providing Unit for each Trading Period must reflect its ability to provide each of its Contracted Services.
  - c) The Providing Unit shall be registered in the Single Electricity Market.
  - <u>d)b)</u>The Providing Unit must be able to declare Available Volumes for Contracted <u>DS3 System</u> Services <u>and OFR</u> via electronic means in real-time i.e. through EDIL or a real-time signal.
  - e)c)The Providing Unit must comply with the TSOs' signal list (as may be amended during the lifetime of the Capped Contract).this Agreement).
  - †)d) The Providing Unit must have Monitoring Equipment installed that meets the standards set out by the TSOCompany and found on the Company's website.
  - <u>(a)(e)</u> Responses shall be based on <u>Under-Frequency</u> Reserve Triggers <u>or OFR Triggers</u> and not on rate of change of Frequency (RoCoF).
  - h)f) The Providing Unit shall be able to operate with a FFR Trajectory Capability of 0.3 Hz in response to an Under-Frequency Reserve Trigger.

- i)g) The Providing Unit shall be able to operate with a FFR-o Trajectory Capability of 0.3 Hz in response to an OFR Trigger.
- The Providing Unit must be capable of providing Available Volumes for POR, SOR, TOR1, and TOR2 equivalent to its capability in FFR. The Providing Unit must have the capability to maintain its response in line with the applicable frequency response curve for the extended timeframes required of FFR, POR, SOR, TOR1 and TOR2, as required by the TSOsCompany in response to an Under-Frequency Reserve Trigger.
- The Providing Unit shallmust be ablecapable of providing Available Volumes for POR-o and SOR- equivalent to operate without recovering its resource (e.g. chargecapability in FFR-o. The Providing Unit must have the case of a battery) until capability to maintain its response in line with the systemapplicable frequency has recovered (response curve for the exact extended timeframes shall be agreed required of FFR-o, POR-o, and SOR-o as required by the TSOs). Company in response to an OFR Trigger.
- The Providing Unit shall have Monitoring Equipment to enable the Performance Monitoring of the provision of the service.
- m)k) The Providing Unit shall provide its expected response to <a href="frequencyfrequencies">frequencyfrequencies</a> below the Under-Frequency <a href="Reserve">Reserve</a> Trigger within its FFR Response Time.
- n)|) The FFR Response Time shall be between 150 ms0.15 s and 300 ms0.30 s inclusive.
- <u>o)m)</u> The Providing Unit shall provide its expected response to <u>frequencyfrequencies</u> above the OFR Trigger within its <u>OFRFFR-o</u> Response Time.
- p)n)The OFRFFR-o Response Time shall be between 150 ms0.15 s and 300 ms.0.30 s inclusive.
- <u>a)o)</u>The Providing Unit shall <u>provide a Dynamic Response and</u> track changes in frequency dynamically;
- The Providing Unit must maintain the capability to operate at its Under-Frequency Reserve

  Trigger Capability, which shall have a value ≤49.8 Hz unless otherwise by agreement of both parties. This value shall be agreed on the Effective Date, and may be modified at a future date by agreement request of both parties the TSO.
- s)q)The Providing Unit must maintain the capability to operate at its OFR Trigger Capability, which shall have a value ≤50.2 Hz unless otherwise by agreement of both parties. This value

shall be agreed on the Effective Date, and may be modified at a future date by agreement request of both parties the TSO.

- 4. Technology Specific Operational Requirements for Service Provision/Availability
- 4.1 An Energy Storage Providing Unit in its provision of FFR, POR, SOR, TOR1, TOR2, and OFR the Contracted Services shall comply with the following Operational Requirements:
  - a) The Energy Storage Providing Unit may be subject to limitations in the manner in which it recharges, which must be agreed with the TSOs.
  - b)a)The Providing Unit shall provide a real-time signal confirming its remaining energy storage available.
  - <u>c)b)</u> The Energy Storage Providing Unit must limit its ramp rates when outside of Frequency Control response mode in accordance with the <u>Protocol DocumentGrid Code</u>.
- 4.2 DSUs and Aggregators in their provision of FFR, POR, SOR, TOR1 and TOR2 shallthe Contracted Servicesshall comply with the following Operational Requirements:
  - a. Aggregators must have the capability to remotely enable/disable services at all Individual Demand Sites (IDS).
  - b. The Providing Unit's Aggregator must stagger load reconnection on IDSs as directed by the TSOsCompany.
  - c. The Providing Unit shall not declare down its Available Volumes in real-time during a Frequency Event, or if it does, the Available Volumes shall reflect the MW response provided.

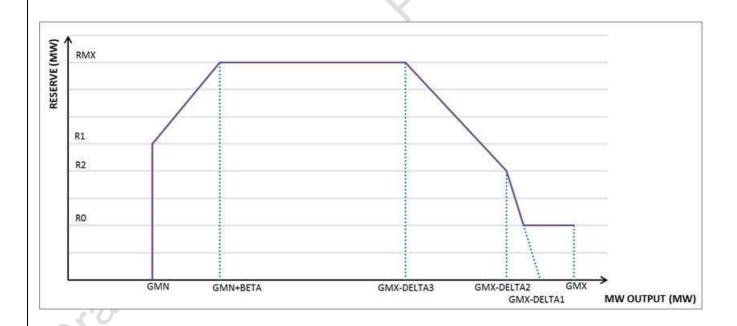
## **Providing Unit and Operating Parameters**

## Part 2 - Operating Parameters

#### 1. Reserve Characteristics

The Reserve Characteristic is a generic characteristic that is applied to POR, SOR, TOR1, TOR2, and FFR for the purpose of calculating payments and incorporating the Operating Parameters in this Schedule.

Figure 1 below illustrates the generic Reserve Characteristic of the Providing Unit. (Note: The characteristic for an Under-frequency response. (For an OFR Response, the Beta, Delta, and GMX values would be negative and the shape of the curve would be reversed). The curve shown here utilises the maximum number of break points. In practice the majority of units will have a less complex structure.).



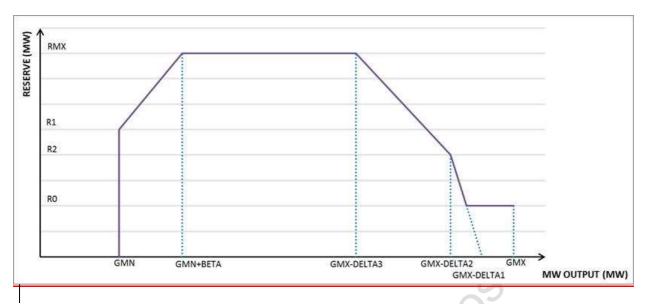


Figure 1 Reserve Characteristic

## **Parameters**

The parameters used in this figure are:

- RMX = the maximum reserve from the Providing Unit.;
- GMN = Providing Unit's minimum output for providing reserve- (can be zero or negative);
- GMX = Providing Unit's average declared MW availability of the active fuel (or -1 \* maximum Demand capability for an OFR response);
- R1 = reserve that can be provided when MW Output is equal to GMN;
- R0 = reserve that can be provided when MW Output is equal to GMX.

BETA, DELTA1, DELTA2, DELTA3, and R2 define curve break points, and will be negative for an OFR response.

#### 2. Reserve Characteristic Parameters

RESERVE C	ESERVE CHARACTERISTIC PARAMETERS							
	FFR	POR	SOR	TOR1	TOR2	FFR-o	POR-o	SOR-o
RMX								
GMN								
R0								
R1								
R2								
DELTA1								
DELTA2								
DELTA3								
BETA								

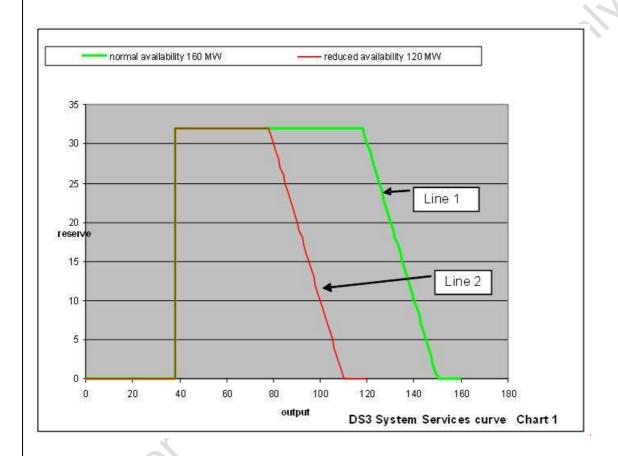
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#### 1. Example of Reserve Characteristics and Providing Unit Availability adjustment

Note: The following is an example for illustration purposes only.

Reserve Characteristics are adjusted by the Availability of the Providing Unit in the following manner in order to determine reserve values for a given Output for different Availability values.



The example in Chart 1 above uses a 160 MW generating unit.

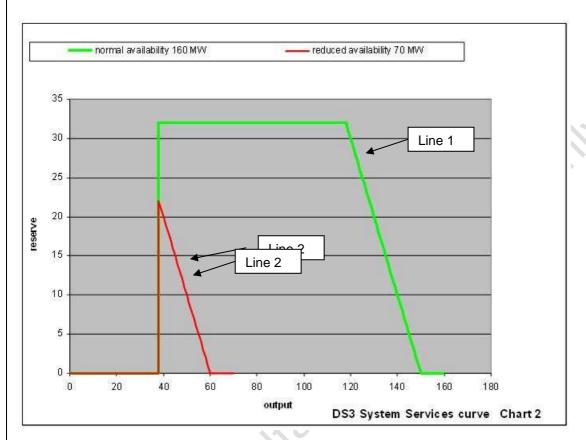
Line 1 (green) indicates the reserve available for a given Output when the machine has Availability of 160 MW.

Line2 (red) indicates the reserve available for a given Output when the machine has Availability of 120 MW

If the generating unit Availability is reduced the original curve moves to reflect the reduction in Availability on the X axis towards zero.

For an Output of 100 MW with Availability of 160 MW the reserve available is 32 MW.

For an Output of 100 MW with Availability of 120 MW the reserve available is 10 MW



The example in chart 2 above uses a 160 MW generating unit.

Line 1 (green) indicates the reserve available for a given Output when the machine has Availability of 160 MW.

Line2 (red) indicates the reserve available for a given Output when the machine has Availability of 70 MW.

For an Output of 50 MW with Availability of 160 MW the reserve available is 32 MW.

For an Output of 50 MW with Availability of 70 MW the reserve available is 10 MW.

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# 3. Additional Operating Parameters

Name	Description	Units	Value
Declaration Flag for MDMW (Declared Generation Available)	Flags whether the Providing Unit sends Declarations for MDMW through EDIL	N/A	Y
Declaration Flag for MNMW (Minimum Generation Available)	Flags whether the Providing Unit sends Declarations for MNMW through EDIL	N/A	Ā
Declaration Flag for FUEL (Current Fuel Being UsedFFR (Fast Frequency Response Availability)	Flags whether the Providing Unit sends Declarations for FUELFFR through EDIL	N/A	<u>Y</u>
Declaration Flag for FFR (Fast Frequency ResponsePOR (Primary Operating Reserve Availability)	Flags whether the Providing Unit sends Declarations for FFRPOR through EDIL	N/A	<u>Y</u>
Declaration Flag for POR (PrimarySOR (Secondary Operating Reserve Availability)	Flags whether the Providing Unit sends Declarations for PORSOR through EDIL	N/A	Y
Declaration Flag for SOR (SecondaryTOR1 (Tertiary 1 Operating Reserve Availability)	Flags whether the Providing Unit sends Declarations for SORTOR1 through EDIL	N/A	<u>Y</u>
Declaration Flag for TOR1TOR2 (Tertiary 12 Operating Reserve Availability)	Flags whether the Providing Unit sends Declarations for TOR1 TOR2 through EDIL	N/A	<u>Y</u>
Declaration Flag for TOR2 (Tertiary 2 Operating ReserveFFR-o (Over- frequency FFR Availability)	Flags whether the Providing Unit sends Declarations for TOR2FFR-0 through EDIL	N/A	<u>Y</u>
Product Scalar for the Faster Response of FFRDeclaration Flag for POR-o (Over-frequency POR Availability)	Value of the Product Scalar for the Fast Response of FFR applicable to FFR payments. Flags whether the Providing Unit sends Declarations for POR-o through EDIL	N/A	<u>Y</u>
Initial Performance Scalar for FFR Declaration Flag for SOR-o (Over-frequency SOR Availability)	Value of the Initial Performance Scalar for POR payments. Flags whether the Providing Unit sends Declarations for SOR-o through EDIL	N/A	<u>Y</u>
Locational Scarcity Scalar for FFRDeclaration Flag for Remaining Energy Storage	Value of the Locational Scarcity Scalar for FFR payments. Flags whether the Providing Unit sends	N/A	<u>Y</u>

Name	Description	Units	Value
of Energy Storage Unit <sup>1</sup>	Declarations for Remaining Energy Storage through EDIL		
Contracted Product Scalar for the Faster Response Time for the Provision of FFR	Contracted value of the fastest response time that a Providing Unit is capable of in response to the frequency falling through the Reserve Trigger. Value of the Product Scalar for the Fast Response of FFR applicable to FFR payments.	N/A	[ <mark>value</mark> ]
Contracted Reserve Trigger CapabilityInitial Performance Scalar for FFR	Contracted value of the frequency set point that represents the maximum capability of the Providing Unit in providing FFR in response to a Reserve Trigger-Value of the Initial Performance Scalar for POR payments.	Hz <u>N/A</u>	<u>1</u>
Initial Performance Scalar for PORContracted Response Time for the Provision of FFR	Value of the Initial Performance Scalar for POR payments. Contracted value of the fastest response time that a Providing Unit is capable of in response to the frequency falling through the Under-Frequency Reserve Trigger.	<del>N/A</del> s_	[<= 0.30]
Locational Scarcity Scalar for PORContracted Reserve Trigger Capability for FFR	Value of the Locational Scarcity Scalar for POR payments. Contracted value of the frequency set point that represents the maximum capability of the Providing Unit in providing FFR in response to an Under-Frequency Reserve Trigger.	<del>N/</del> A <u>Hz</u>	[<=49.8]
Initial Performance Scalar for SORContracted Response Time for the Provision of FFR-0	Value of the Initial Performance Scalar for SOR payments. Contracted value of the fastest response time that a Providing Unit is capable of in response to the frequency falling through the Under-Frequency Reserve Trigger.	<del>N/A</del> <u>s</u>	[<= 0.30]
Locational Scarcity Scalar for SORContracted Reserve Trigger Capability for FFR-o	Value of the Locational Scarcity Scalar for SOR payments. Contracted value of the frequency set point that represents the maximum capability of the Providing Unit in providing FFR in response to an Under-Frequency Reserve Trigger.	<del>N/</del> A <u>Hz</u>	[>=50.2]
Initial <u>Event</u> Performance Scalar for <del>TOR1</del> POR	Value of the Initial <u>Event</u> Performance Scalar for <u>TOR1POR</u> payments.	N/A	<u>1</u>
Locational ScarcityInitial Event Performance Scalar for TOR1SOR	Value of the Locational ScarcityInitial Event Performance Scalar for TOR1SOR payments.	N/A	<u>1</u>
Initial <u>Event</u> Performance Scalar for <u>TOR2</u> TOR1	Value of the Initial <u>Event</u> Performance Scalar for <u>TOR2TOR1</u> payments.	N/A	<u>1</u>

<sup>&</sup>lt;sup>1</sup> Do "Remaining Energy Storage" or "Energy Storage Unit" need to be defined?

	Name	Description	Units	Value
	<u>Locational ScarcityInitial</u> <u>Event Performance</u> Scalar for TOR2	Value of the Locational ScarcityInitial Event Performance Scalar for TOR2 payments.	N/A	<u>1</u>
		Defines the Providing Unit type as one of the following categories:  0 = CDGU (including AGU)  3 = CDGU with sync comp		7
	Providing Unit TypeInitial Availability Modifier for FFR-0	30 = DSU 40 = Wind Farm Power Station/Power Park Module 60 = Battery Value of the Initial Availability Modifier for FFR-o.	N/A	<u>1</u>
	FlagInitial Availability  Modifier for Available	This parameter indicates whether a non-synchronous Providing Unit sends an Available Active Power signal through EMS, primarily a signal sent by WFPS (Wind Farm Power Station) and PPM (Power Park Module), Value of the Initial Availability Modifier for POR-		
1	Active Power signal POR-o	<u>0.</u>	N/A	<u>1</u>
	FlagInitial Availability  Modifier for Energy Storage UnitSOR-0	This parameter indicates whether a non-synchronous Providing Unit is limited by Energy Storage and sends a Percentage Energy Stored signal through EMS, (primarily a signal sent by a battery). Value of the Initial Availability Modifier for SOR-o.	N/A	<u>1</u>
	Minimum MW for full synchronisation Initial Availability Performance Scalar	For synchronous Providing Units the MW threshold value, for which full synchronisation is assumed for that Providing Unit, when its Average MW Output is greater than or equal to this value. Value of the Initial Availability Performance Scalar.	<del>MW</del> N/A	<u>1</u>
	%O <sup>{</sup>	For synchronous Providing Units the MW threshold value, for which partial synchronisation is assumed for that Providing Unit, when its Average MW Output is greater than or equal to this value. Defines the Providing Unit type as one of the following categories:		
	Minimum MW for partial synchronisation Providing Unit Type	30 = DSU 60 = Battery	<del>MW</del> N/A	[ <u>60</u> ]
	Minimum MWFlag for SC ModeAvailable Active Power signal	For synchronous Providing Units capable of operating in synchronous compensation mode the (negative) MW threshold value, for which full synchronisation in SC mode is assumed for that Providing Unit when its	<del>MW</del> N/A	<u>(Y)</u>

<sup>&</sup>lt;sup>2</sup> Is this a term that needs to be defined?

Name	Description	Units	Value
	Average MW Output is less than or equal to this value. This parameter indicates whether a nonsynchronous Providing Unit sends an Available Active Power signal through EMS, as would be expected from a PPM (Power Park Module).		
Minimum MWFlag for partial SC ModeEnergy Storage Unit	For synchronous Providing Units capable of operating in synchronous compensation mode the (negative) MW threshold value, for which partial synchronisation in SC mode is assumed for that Providing Unit, when its Average MW Output is less than or equal to this value. This parameter indicates whether a nonsynchronous Providing Unit is limited by Energy Storage and sends a Percentage Energy Stored signal through EMS, (primarily a signal sent by a battery).	MWN/A	Y
Registered Capacity	The Registered Capacity for single-shaft synchronous Providing Units and for non-synchronous Providing Units.	MW	
Contracted Maximum Stored Capacity	The contracted Maximum Stored Capacity of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted FFR Energy Stored Limit Low	The contracted FFR Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted FFR Energy Stored Limit High	The contracted FFR Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted POR Energy Stored Limit Low	The contracted POR Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted POR Energy Stored Limit High	The contracted POR Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted SOR Energy Stored Limit Low	The contracted SOR Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted SOR Energy Stored Limit High	The contracted SOR Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted TOR1 Energy Stored Limit Low	The contracted TOR1 Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted TOR1 Energy Stored Limit High	The contracted TOR1 Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	

Name	Description	Units	Value
Contracted TOR2 Energy Stored Limit Low	The contracted TOR2 Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted TOR2 Energy Stored Limit High	The contracted TOR2 Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted FFR-o Energy Stored Limit Low	The contracted FFR-o Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted FFR-o Energy Stored Limit High	The contracted FFR-o Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted POR-o Energy Stored Limit Low	The contracted POR-o Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted POR-o Energy Stored Limit High	The contracted POR-o Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted SOR-o Energy Stored Limit Low	The contracted SOR-o Energy Stored Limit Low of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted SOR-o Energy Stored Limit High	The contracted SOR-o Energy Stored Limit High of the Providing Unit in the case of Energy Storage Power Station.	N/A	
Contracted Maximum FFR Available Volume	The Contracted Maximum FFR Available Volume for a Providing Unit.	MW	
Contracted Maximum POR Available Volume	The Contracted Maximum POR Available Volume for a Providing Unit.	MW	
Contracted Maximum SOR Available Volume	The Contracted Maximum SOR Available Volume for a Providing Unit.	MW	
Contracted Maximum TOR1 Available Volume	The Contracted Maximum TOR1 Available Volume for a Providing Unit.	MW	
Contracted Maximum TOR2 Available Volume	The Contracted Maximum TOR2 Available Volume for a Providing Unit.	MW	
Contracted Maximum FFR-o Available Volume	The Contracted Maximum FFR-o Available Volume for a Providing Unit.	<u>MW</u>	
Contracted Maximum POR- o Available Volume	The Contracted Maximum POR-o Available Volume for a Providing Unit.	MW	-

	Contracted Maximum Export Capacity of a providing unit.  Note: The Operating Parameters table above is a generic list of Providing Unit Operating Parameters and may be amended on a Providing Unit basis.	Ontracted Maximum Export Capacity  The Contracted Value of the Maximum Export Capacity of a providing unit.  MW  Note: The Operating Parameters table above is a generic list of Providing Unit Operating Parameters and may be amended on a Providing Unit basis.	O Available Volume  Contracted Maximum Export Capacity  The Contracted Value of the Maximum Export Capacity of a providing unit.  MW  Note: The Operating Parameters table above is a generic list of Providing Unit Operating Parameters and may be amended on a Providing Unit basis.	Country at a d Marrian una COD	Description	Units	Value
Note: The Operating Parameters table above is a generic list of Providing Unit Operating Parameters	Note: The Operating Parameters table above is a generic list of Providing Unit Operating Parameters and may be amended on a Providing Unit basis.	Note: The Operating Parameters table above is a generic list of Providing Unit Operating Parameters and may be amended on a Providing Unit basis.	Note: The Operating Parameters table above is a generic list of Providing Unit Operating Parameters and may be amended on a Providing Unit basis.			MW	_
	and may be amended on a Providing Unit basis.	and may be amended on a Providing Unit basis.	and may be amended on a Providing Unit basis.			MW	
		Consultation	Orail for Consultation of the Consultation of	and may be amended on a r	Toviding offic pasis.		

## **CALCULATION VALUES TABLE**

#### Input

All values entered through EDIL which are required for calculations in this Agreement have the precision detailed in the table below.

EDIL Parameter	Acronym as displayed in EDIL GUI	Data Type	Unit of Measurement	Precision
Fast Frequency Response	FFR	Float	MW	1
Over-frequency FFR	<u>FFRO</u>	Float	MW	1
Maximum Generation Available	MDMW	Integer	MW	0
Minimum Generation Available	MNMW	Integer	MW	0
Primary Operating Reserve	POR	Float	MW	1
Over-frequency POR	<u>PORO</u>	<u>Float</u>	MW	1
Secondary Operating Reserve	SOR	Float	MW	1
Over-frequency SOR	<u>SORO</u>	<u>Float</u>	MW	1
Tertiary 1 Operating Reserve	TOR1	Float	MW	1
Tertiary 2 Operating Reserve	TOR2	Float	MW	1
Maximum MVAR Leading	MDLD	Float	MVAr	1
Maximum MVAR Lagging	MDLG	Float	<del>MVAr</del>	1
Ability to act under AVR	AVR	<del>Binary</del>	None	<del>Yes = 1 / No = 0</del>
Current Fuel Being Used	FUEL	Text	None	N/A

## Output-

Where input data is reflected in output reports the output data shall be displayed to the same level of accuracy as required for the corresponding input data

Where payment data is reflected in output report, the payment data shall be displayed to two decimal places.

Where payment data is calculated by the settlement system, at both the Trading Period and monthly level, it will be calculated to floating point precision (7 digits).

Output Values	Unit of Measurement	No. of Decimal Places
Sums to be Paid	€	2

#### **Calculations**

All calculations within the software used by the Company for DS3 System Services shall be calculated

# Part 3- Provision of DS3 System Service by the Providing Unit

The Service Provider shall provide the following DS3 System Services from the Providing Unit:

# [list of services]

For the avoidance of doubt, the Service Provider shall have no obligation to provide the following DS3 System Services from the Providing Unit save where required under the Grid Code:

[list of services]

# **Data Processor Agreement**

Dated the day of 201[ ]

EirGrid plc

**And** 

\_\_\_\_

**Data Processor Supplemental Agreement** 

THIS	SUPPLEMENTAL AGREEMENT is made the day of 201
BETW	<del>/EEN: -</del>
1)	EirGrid plc, a registered company having its principal place of business at Block 2 The Oval, 160 Shelbourne Road, Ballsbridge, Dublin 4, Ireland (which expression shall include where the context so admits or requires include its assigns and legal successors in title under any restructuring of EirGrid plc by the Government of the Republic of Ireland) ("EirGrid"), (hereinafter referred to as "the Client") of the One Part; and
<del>2)</del>	[ ] a company registered in Ireland whose registered office is at [ ] and having company registration number [ ] (hereinafter referred to as "the Service Provider") which expression shall include its employees, agents and subcontractors of the Other Part.
WHE	Each a Party, together the Parties
_	
<del>(A)</del>	EirGrid has retained the Service Provider to provide Services in connection with <b>Project Name</b> (the "Project"). In the course of fulfilling its obligations relating to the Project the Service Provider will be processing Personal Data on behalf of EirGrid.
- <del>(B)</del>	In accordance with the Data Protection Laws and EirGrid's data protection policy, EirGrid is obliged to conduct its affairs in such a way as to maintain the protection of Personal Data in its possession and under its control.
<del>(C)</del>	In order to ensure that Personal Data controlled by EirGrid in the circumstances described in (A) above is processed in accordance with the Data Protection Laws by the Service Provider, EirGrid and the Service Provider have entered into this Supplemental Agreement and agreed

# **NOW IT IS AGREED** as follows:

in the manner hereinafter appearing.

1. For the purposes of this Supplemental Agreement, the following terms shall have the following meanings:

"Data Protection Laws"

means any law, statute, declaration, decree, directive, legislative enactment, order, ordinance, regulation, rule or other binding restriction (as amended, consolidated or reenacted from time to time) which relates to the protection of individuals with regards to the processing of personal data to which a Party is subject, including the Data Protection Acts 1988 and 2003 and EC Directive 95/46/EC (up to and including 24 May 2018) and the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of Personal Data and repealing Directive 95/46/EC (General Data Protection Regulation) OJ L 119/1, 4.5.2016 ("GDPR") (on and from 25 May 2018) or any

equivalent legislation amending or replacing the GDPR;

"Data Controller" has the meaning given in the GDPR;

"Data Processor" has the meaning given in the GDPR;

"Data Subject" has the meaning given in the GDPR;

"Personal Data" has the meaning given in the GDPR;

"Personal Data Breach" means a breach of Clause 3.2 or 3.4; and

"Process" has the meaning given in the GDPR.

2. The Parties acknowledge that the factual arrangement between them dictates the classification of each Party in respect of the Data Protection Laws. Without prejudice to the above, the Parties agree and acknowledge that the Service Provider will process Personal Data on behalf of the Client as a Data Processor arising from the performance of their obligations in connection with the Project.

Appendix A Part 1 of this Agreement shall set out the subject matter and duration of the

Processing of the Personal Data along with the types of Personal Data and the categories of Data Subjects ("Data Protection Particulars").

- 3. To the extent that the Service Provider Processes Personal Data on behalf of the Client (the "Relevant Data") the Service Provider shall comply with the following in relation to such Relevant Data:
  - 3.1 the Service Provider shall not engage another Processor (a "Sub Processor") without prior written consent of the Client. If the Client provides such written consent and the Service Provider engages a Sub-Processor to carry out specific Processing activities on any Relevant Data the Service Provider shall ensure that at least the same data protection obligations as set out in this Data Protection Agreement are imposed on that Sub-Processor by way of a written agreement. The Service Provider shall be liable and responsible for the acts and omissions of the Sub-Processor as if such acts and omissions were its own:
  - 3.2 the Service Provider shall Process the Relevant Data only in accordance with the documented instructions of the Client and shall not transfer (nor instruct or permit a third party to transfer) Relevant Data outside of the European Economic Area unless it has first obtained the Client's prior written consent and has put in place measures to ensure the Client's compliance with Data Protection Laws;
  - the Service Provider shall take all reasonable steps to ensure the reliability and integrity of any persons authorised to Process the Relevant Data by it (including its employees, contractors, agents and subcontractors), and shall ensure that each person shall have entered into appropriate contractually-binding confidentiality undertakings;
  - 3.4 the Service Provider shall implement appropriate technical and organisational security measures which ensure against (i) unauthorised access to, (ii) unauthorised or unlawful alteration, disclosure, destruction or other unauthorised or unlawful processing of, (iii) accidental loss or destruction of, or (iv) damage to, the Relevant Data;
  - the appropriate technical and organisational security measures the Service Provider shall implement arising from clause 3.4 shall include as appropriate (i) the pseudonymisation and encryption of Relevant Data, (ii) the ability to ensure the ongoing confidentiality, integrity, availability and resilience of Processing systems and services, (iii) the ability to restore the availability and access to Relevant Data in a timely manner in the event of a physical or technical incident, and (iv) a process for regularly testing, assessing and

- evaluating the effectiveness of technical and organisational measures for ensuring the security for the Processing;
- 3.6 the Service Provider shall notify the Client, as soon as possible and in any event within two
  (2) days of becoming aware, of any request made by a Data Subject to access Relevant
  Data and shall at all times cooperate with and assist the Client to execute the Client's
  obligations under the Data Protection Laws in relation to such Data Subject access
  requests;
- in addition to its obligations set out in clause 3.6, the Service Provider shall at all times cooperate with and assist the Client to execute the Client's obligations under the Data Protection Laws in relation to a Data Subject's right: (i) of rectification of Relevant Data, (ii) of erasure of Relevant Data, (iii) to restriction of Processing of Relevant Data, (iv) to portability of Relevant Data, (v) to object to the lawfulness of the Processing of Relevant Date, and (vi) to not be subject to a decision based solely on automated Processing;
- in the case of a Personal Data Breach, the Service Provider shall without undue delay, and in any event with twenty-four (24) hours, notify the Client of the Personal Data Breach. To the extent that the Service Provider has access to such information at the time of the notification, such notification shall (i) describe the nature of the Personal Data Breach including where possible, the categories and approximate number of Data Subjects concerned and the categories and approximate number of Relevant Data records concerned, (ii) describe the likely consequences of the Personal Data Breach, and (iii) describe the measures taken or proposed to be taken by the Service Provider to address the Personal Data Breach, including, where appropriate, measures to mitigate its possible adverse effects. Where, but only to the extent that it is not possible to provide such information at the same time as the notification of the Personal Data Breach, the information may be provided at a later time but as soon as reasonably practicable;
- in addition to and without prejudice to, any other provision of this Agreement, at the Client's direction the Service Provider shall delete or return all Relevant Data to the Client at the end of the provision of the applicable services to which the Processing relates, and delete all copies held by the Service Provider (unless applicable law requires the storage of such Relevant Data by the Service Provider); and
- 3.10 the Service Provider shall comply with the obligations imposed upon a Processor under the Data Protection Laws.
- 4. In addition to and without prejudice to any other provision of this Agreement, the Service

  Provider shall on request make available to the Client all information necessary to

  demonstrate the Service Provider's compliance with the obligations laid down in this Data

Protection Agreement and allow for and contribute to audits, including inspections, conducted by the Client or another auditor mandated by the Client.

- 5. The Service Provider hereby indemnifies the Client against all third party claims and proceedings and all liability, loss, costs and expenses directly incurred in connection therewith made or brought by any person in respect of any direct loss, damage or distress caused to that person as a result of the Service Provider's unauthorised and/or unlawful processing or the Service Provider's destruction and/or damage to any Personal Data obtained from (or held by the Service Provider or its personnel on behalf of the Client), save where such destruction was carried out at the Client's request.
- 6. The Parties acknowledge and agree that the terms hereof shall be read as supplemental and additional to the Agreement and that the terms of the Agreement shall apply hereto mutatis mutandis.

\_

Signed by [ EirGrid plc	] for and on behalf of	<del></del>
Signed by [ Limited	] for and on behalf of <b>SONI</b>	<del></del>
Signed by [	for and on behalf of	<del></del>

#### Schedule 11

#### **Performance Bond**

## [To be issued on headed paper of financial institution]

To: EirGrid plc

The Oval

160 Shelbourne Road

Ballsbridge

Dublin 4

Republic of Ireland

Dear Sirs,

### On Demand Bond Issued Pursuant to the [DS3 System Services Capped Agreement]

### 1. Background

We understand that:

1.1. Under the DS3 System Services Capped Agreement between EirGrid plc ("(the "Beneficiary") which includes its legal successors and any person whom the Beneficiary assigns or transfer all its rights and obligations under the DS3 System Services Capped Agreement and [ "(the "Applicant"), which expression includes its legal successors and any person whom the Applicant assigns or transfers all its rights and obligations under the DS3 System Services Capped Agreement it was agreed that the Applicant would procure the issue of a Bond in favour of the Beneficiary in the form of this document.

#### 2. Bond

Further to the Applicant's obligations under the DS3 System Services Capped Agreement and at the request of the Applicant, we [insert name and registered address of issuer of credit institution of an approved credit rating] ("(the "Issuer") with an Approved Credit Rating, irrevocably and unconditionally promise to pay, as primary obligor, to the Beneficiary on a first written demand received from the Beneficiary the Demand Amount provided that the Beneficiary complies with the provisions of this bond instrument. For the avoidance of doubt, nothing in this bond instrument shall confer any third party and any benefit or the right to enforce any terms of this bond instrument.

#### 3. Definitions

In this DS3 System Services Capped Agreement Bond (and every Demand), unless the context otherwise requires:

## "Approved Credit Rating"

means an A2 or an A rating of long-term debt given by Moody's and/or Standard & Poor's, or another equivalent internationally recognised credit rating agency reasonably satisfactory to the Beneficiary.

### "Authorised Signatory"

means an officer of the Beneficiary having authority to execute a Demand and whose name and specimen signature have been notified to the Issuer by the Beneficiary before service of the Demand.

#### "Demand"

means a written notice of demand served by the Beneficiary on the Issuer in the form set out in the Appendix to this DS3 System Services Capped Agreement.

#### "Demand Amount"

Means in relation to any Demand the amount specified in the Demand not exceeding in aggregate <a href="#">[insert the maximum amount of the bond]</a>- as set out in paragraph 5.

### "Expiry Date"

means the the date falling twelve (12) months after the Target Go-Live Date.

# "URDG Rules"

Means the contractual rules set out in the International Chamber of Commerce (ICC) Uniform Rules for Demand Guarantees, 2010 revision, ICC Publication No. 758 (URDG 758)

This Bond is subject to the URDG Rules except where otherwise stated.

- 4. The Issuer irrevocably and unconditionally undertakes that it will, on service of a Demand in paper form at the address specified below in Clause 9 (or such other address as agreed with the Beneficiary and the Issuer) before the Expiry Date, and within three (3) Business Days of service of the Demand pay to the Beneficiary the specified amount, unless in so doing the aggregate limit set out in [paragraph 5] of this Bond would be exceeded, in which case the Issuer shall pay to the Beneficiary so much of the Demand Amount as may be paid without exceeding such limit.
- **5.** The Beneficiary may make one or more Demands under this Bond provided that the aggregate amount of all Demands and the aggregate liability of the Issuer under this Bond shall not exceed [insert maximum amount of bond].

**6.** Any payment under this Bond shall be made without set-off or counterclaim and free from any deduction or withholding in Euro in immediately available, fully transferable, cleared funds by transfer to the following account in the Beneficiary's name;

Account Name: [Details to be inserted]
Account Number:
Bank Name:
Bank Address:
Sort Code:
Swift Code:

IBAN:

or in such other manner or to such other account at an Irish financial institution as the Beneficiary may from time to time notify to the Issuer in writing.

Where any such deduction or withholding is required by law to be made (whether by the Applicant, Issuer or otherwise) the Issuer shall pay in the same manner and at the same time such additional amounts as will result in receipt by the Beneficiary of the amount it would have received had no such deduction or withholding been required.

- 7. The obligations of the Issuer under this Bond shall cease on the Expiry Date, except:
  - 7.1 in respect of any Demand received by the Issuer prior to the Expiry Date in relation to which the Issuer shall be obliged (subject to the terms of this Bond) to pay to the Beneficiary the Demand Amount.
  - 7.2 as provided in paragraph [13] of the Bond

and the provisions of this paragraph 7 shall survive the expiration of this Bond accordingly.

- 8. The liability of the Issuer shall not in any way be affected by:
  - 8.1 any time, indulgence or relief being given to or by the Beneficiary or the Applicant;
  - 8.2 any amendment or extension of or supplement to the DS3 System Services Capped Agreement;
  - any invalidity in, or irregularity or unenforceability of the obligations of any person under the DS3 System Services Capped Agreement;

- anything done or omitted which but for this provision might constitute a legal or equitable discharge or release of, or defence for, the Issuer.
- 9. Any notices or notifications (including any Demand and the requirement for supporting statement under Article 15(a) and (b) of the ICC Uniform Rules for Demand Guarantees, URDG Rules given under this Bond shall be in writing and shall be served by sending the same by post or leaving the same at:

If to the Issuer: [ ]

Attention: The Company Secretary

If to the Beneficiary: EirGrid plc

The Oval

160 Shelbourne Road

Ballsbridge

Dublin 4

Ireland

Attention: The Company Secretary

The Beneficiary and the Issuer may change its nominated address to another address in the Republic of Ireland by prior written notice to the other party. Any written notices shall be effective upon the earlier of:

- 9.1 actual receipt; or
- 9.2 two (2) days after mailing or despatch.
- 10. This Bond may be amended only by an instrument in writing signed on behalf of the Beneficiary or the Issuer.
- 11. The governing law for the purposes of this Bond shall be the laws of Ireland. The Competent Courts shall be the Courts of Ireland.
- 12. The Beneficiary, after receiving written without the consent of the Issuer and the Applicant (such consent not to be unreasonably withheld), may transfer and assign all its rights and obligations under the Bond and the relevant URDG Rules related to transfer and assignment by the Applicant is hereby expressly excluded to the extent that it precludes such an assignment.

13.	the URDG Rules, the Issuer shall remain lial any Demand served nonnot later than fiftee the Beneficiary that its business has ceased shall, within two (2) Business Days of the ce	of the business of a kind referred to in Article 26 of ole to make payment under this Bond in respect of in (15) Business Days after the Issuer has notified to be so interrupted. The Issuer undertakes that it essation of any interruption of business referred to och this Bond expires) notify the Beneficiary of that ereby amended.		
14.	All charges and fees under this Bond shall b	e for the account of the Applicant.		
Yours faithfully				
[	<del></del>			
Present when the Commons Seal of [Issuer] was affixed  Hereto and this deed was delivered:				
		(Director)		
		(Director/Secretary)		
<u>Or</u>				
Execut	red as a deed by <mark>{</mark> Issuer <mark>}</mark> on being signed by t	NO		
Directo	ors or a director and secretary			

 (Director)
 (Director/Secretary)

# Form of Demand

To: Ine issuer
The Bond Number [ ] dated [ ] ("Bond")
We refer to the Bond dated [] and issued by you in our favour. In accordance with paragraph 2
and 4 of the Bond, we hereby make demand in the sum of the Eur [€ ] and request that you pay the same immediately to [Demand Amount]. the account referred to in paragraph 6.
For EirGrid plc
Dated this [ ] of [ ] 20[ ]
[Authorised signatory]