

Single Electricity Market

Grid Code ~~—Common Sections~~

NEW SDC DEFINITIONS

~~19 June~~ 30 August 2007

[Note: Please note that this document was prepared jointly by EirGrid plc and SONI Limited.]

[Note: Please note that any terms defined in italics in the table below are applicable to one Grid Code only.]

[Note: Please note that the cross-referencing in this section to other sections of the Grid Code has not yet been fully updated ~~since the date of the last GCRP meeting and will need to be updated following the consultation period.~~]

Defined Term	Definition
Active Power <i>or MW</i> <i>[Note: Words in italic apply to Northern Ireland only.]</i>	The product of the components of alternating current and voltage that equate to true power which is measured in units of watts and standard multiples thereof, for example: 1000 Watts = 1 kW; 1000 kW = 1 MW; 1000 MW = 1 GW.
Additional Grid Code Availability Notice	A notice submitted by a User to the TSO under <u>pursuant to SDC1.4.2.1.4.2 relating to additional data on Availability.</u>
Additional Grid Code Characteristics Notice	A notice to be submitted to the TSO pursuant to SDC1.4.4.2 relating to additional technical data.
Aggregate Interconnector Ramp Rate	The maximum Ramp Up Rate or <u>for an Interconnector or maximum Ramp Down Rate</u> as determined by the TSO.
Aggregated Demand Side Units Site	A group of <u>Individual Demand Sites</u> represented by a <u>Dispatchable Demand Side Unit Aggregator Customer</u> , which together are capable of a <u>Demand Reduction Capability</u> equal to or above 4 MW (and <u>which is therefore</u> subject to <u>Central Dispatch Instruction</u> from the TSO). <u>Each Individual Demand Site comprising an Aggregated Demand Site shall be in one currency zone. Unless otherwise specified, information submitted in respect of an Aggregated Demand Site shall always be at an aggregated level.</u>
Aggregated Generating	A group of <u>Generating Units</u> represented by a <u>Generator Aggregator</u> , which together have an output equal <u>each of which must</u>

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(22030629.36)

Defined Term	Definition
Units <u>Unit</u>	<p><u>not have a Registered Capacity/Contracted Capacity greater than 10MW [consider insertion of de minimis threshold]. Unless otherwise specified, information submitted in respect of an Aggregated Generating Unit shall always be at an aggregated level.</u></p> <p><u>[Note: Please note that further to or above 4MW recent discussions with the RAs, this definition is being considered further. This is subject to the discussion on Central Dispatch.]</u></p>
<u>Aggregated Maximum Export Capacity</u>	<u>In the case of a Generator Aggregator, the aggregated value (in MW, MVA, kW and/or kVA) provided in each Connection Agreement (or connection agreement to the Distribution System, as the case may be) for the Generating Units for which the Generator Aggregator is responsible.</u>
<u>Aggregated Maximum Import Capacity</u>	<u>In the case of a Dispatchable Demand Customer in respect of its Aggregated Demand Site or a Generator Aggregator in respect of its Aggregated Generating Unit, the aggregated values (kW and/ or kVA) provided in each Connection Agreement (or connection agreement to the Distribution System, as the case may be) for the Individual Demand Sites or Generating Units for which the Dispatchable Demand Customer or Generator Aggregator is responsible.</u>
Aggregator	Either a Generator Aggregator or a Demand Side Unit Aggregator <u>Dispatchable Demand Customer in respect of an Aggregated Demand Site.</u>
Ancillary Services <u>Service</u>	<p>SONI:</p> <p><i>A service, other than the production of electricity, which is used to operate a stable and secure any part of the system in the Republic of Ireland including Reactive Power, Operating Reserve, Frequency Control and Blackstart Capability.</i></p> <p><i>[Note: This definition, which has been taken and modified from the EirGrid Grid Code, will appear in the SONI Grid Code and refers to the EirGrid equivalent of System Support Services.]</i></p> <p>In EirGrid:</p> <p><i>A service, other than the production of electricity, which is used to operate a stable and secure Power System including Reactive Power, Operating Reserve, Frequency Control and Blackstart Capability.</i></p>
Autonomous Generating Units	A Generating Unit that is not Dispatchable <u>subject to Central Dispatch</u> or subject to Active Power control by the relevant TSO.

Defined Term	Definition
Availability Notice	A notice to be submitted under to the TSO pursuant to SDC1.4.1.1.
<i>Availability Payments</i>	<i>A payment made to a Generator for making a Generating Unit available.</i> <i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i>
Black Start	The procedure necessary for a recovery from a Total Shutdown or Partial Shutdown .
Block Load	The level of output that a Generating Unit immediately produces following Synchronisation . For avoidance of doubt, Block Load can equal 0 MW. <i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i>
Block Load Cold	Block Load during a Cold Start . <i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i>
Block Load Hot	Block Load during a Hot Start . <i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i>
Block Load Warm	Block Load during a Warm Start . <i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i>
Cancelled Start	A response by a Generator to an instruction from the TSO cancelling a previous instruction to Synchronise to the NI System .
CCGT Installation	SONI: <i>A collection of CCGT Modules (registered as a CCGT Installation under the PC) comprising one or more gas turbines and one or more steam turbines where, in normal operation, the waste heat from the CCGT Modules which are gas turbines is passed to the heat exchanger of the associated CCGT Modules which are steam turbines from which it is directly supplied to these steam turbines thereby contributing to the overall combined cycle efficiency of the CCGT Installation.</i> EirGrid: <i>A collection of Generation Units comprising one or more Combustion</i>

Defined Term	Definition
	<i>Turbine Units and one or more Steam Units where, in normal operation, the waste heat from the Combustion Turbine Units is passed to the water/steam system of the associated Steam Unit or Steam Units and where the component Generation Units within the CCGT Installation are directly connected by steam or hot gas lines which enable those Generation Units to contribute to the efficiency of the combined cycle operation of the CCGT Installation.</i>
CCGT Installation Matrix	The matrix which must be submitted by a Generator under the Planning Code and which is used by the TSOs for Scheduling and Dispatch purposes under the SDCs as a “look up” table determining which CCGT Module/CCGT Unit will be operating at any given MW Dispatch level subject to any updated Availability information submitted by a Generator to a TSO under SDC1 . <i>[Note: The term “CCGT Module” will apply to the SONI Grid Code and the term “CCGT Unit” will apply to the EirGrid Grid Code.]</i>
CCGT Module	<i>A Generating Unit within a CCGT Installation.</i> <i>[Note: Please note that this term will apply to the SONI Grid Code.]</i>
CCGT Unit	<i>A Generating Unit within a CCGT Installation</i> <i>[Note: Please note that this term will apply to the EirGrid Grid Code.]</i>
Central Dispatch	<u>[The process of Scheduling and issuing Dispatch instructions</u> Instructions in relation to CDGUs, Dispatchable WFPS, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units, Aggregated Demand Side Units and/or Interconnector UnitsInterconnectors direct to a Power StationControl Facility by the TSO pursuant to the Grid Code .] <u><i>[Note: Please note that further to recent discussions with the RAs, the specific requirements for central dispatch/applicable users are still being considered further.]</i></u>
Centrally Dispatched Generating Unit (CDGU)	A Generating Unit within a Power Station subject to Central Dispatch , which comprises, unless specified otherwise <u>in relation to a particular use of the term</u> a Thermal Plant including a CCGT Installation, a Dispatchable WFPS, Hydro Unit and Pumped Storage Plant in respect of its Pumped Storage Generation . Generating Units with a Registered Capacity of less than 4 MW will not be subject to Central Dispatch.
Cold Start	Any Synchronisation of a Generating Unit that has previously not been Synchronised for a period of time equal to or longer than its submitted Warm Cooling Boundary .

Defined Term	Definition
Commercial Offer Data	Data submitted <u>by a User of an Intermediary</u> to the MO pursuant to the TSC in relation to prices and, where applicable, nominated output <u>Nominated Profile</u> for certain Users.
<i>Commissioning/Acceptance Test</i>	<i>Testing of a CDGU, Controllable WFPS, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units, Aggregated Demand Side Units, Interconnector-Unit or an item of User's Equipment required pursuant to the Connection Conditions prior to connection or re-connection in order to determine whether or not it is suitable for connection to the System and also to determine the new values of parameters to apply to it following a material alteration or modification of a CDGU, Controllable WFPS, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units, Aggregated Demand Side Units, Interconnector-Unit or of an item of User's Equipment and the term "Commissioning/Acceptance Testing" shall be construed accordingly.</i> <i>[Note: This term applies to SONI only]</i>
<i>Commissioning Test</i>	<i>Testing of a CDGU, Controllable WFPS, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units, Aggregated Demand Side Units, Interconnector-Unit or an item of User's Equipment required pursuant to the Connection Conditions prior to connection or re-connection in order to determine whether or not it is suitable for connection to the System and also to determine the new values of parameters to apply to it following a material alteration or modification of a CDGU, Controllable WFPS, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units, Aggregated Demand Side Units, Interconnector-Unit or of an item of User's Equipment and the term "Commissioning Testing" shall be construed accordingly.</i> <i>[Note: This term applies to the EirGrid Grid Code only]</i>
Common Confirmation Sections <u>Confirmation Statement</u>	Those parts of the Grid Code which are under common governance in both the Grid Code and the Other Grid Code, as further provided in the Grid Code. <u>As defined in the Metering Code.</u> <u>[Note: This definition applies to the SONI Grid Code only.]</u>
Connection Agreement	The bilateral agreement between the TSO and the User, which contains the detail specific to the User's connection to the Transmission System or the Distribution System as the case may be. <u>[Note: the words in italic apply to the ROI only.]</u>
Constrained Group	A part of the System containing a group of Generating Units <u>located</u> within a constrained part of the System as determined by the TSO.

Defined Term	Definition
Contracted Capacity	<p>In relation to a PPA CDGU, the NFL Capacity of the CDGU which is set out in paragraph 2 of Schedule 1 to the Generating Unit Agreement for that CDGU or in the System Support Services Agreement, as that NFL Capacity may be amended from time to time in accordance with that Generating Unit Agreement, <u>or</u> the relevant Power Station Agreement or System Support Services Agreement.</p> <p><i>[NB: This definition applies to the SONI Grid Code only.]</i></p>
Control Facility	<p>A location used for the purpose of monitoring Monitoring, control and operation of the User's Plant and Apparatus <u>and for accepting Dispatch Instructions via Electronic Interface</u>.</p> <p><i>[Note: Please note that this definition was modified from the definition in the EirGrid Grid Code.]</i></p>
Controllable WFPS	<p>EirGrid:</p> <p>A site containing at least one WTG which can automatically act upon a remote signal from the TSO to change its Active Power output.</p> <p>SONI:</p> <p>A WFPS first connected to the NI System on or after 1 April 2005 whose wind turbines comprise a Registered Capacity of 5 MW or more.</p>
Cycle Operating Mode	<p>The open-cycle Open Cycle Mode or combine cycle operating mode Operating Mode of a CCGT Installation which may need to be specified pursuant to a Dispatch Instruction under SDC2.4.2.4(kj).</p>
Declared Maximisation Capacity	<p>In relation to a CDGU, the Maximisation Capacity as declared by a Generator in a Technical Parameters Notice (or in a revised Technical Parameters Notice) to be the impaired Maximisation Capacity of the CDGU which shall be not greater than its Contracted Capacity (Maximisation) nor less than its Contracted Capacity (which is Maximisation Capacity stated on the assumption that Availability is equal to Contracted Capacity) or if no figure is so declared, the Contracted Capacity (Maximisation) set out in [paragraph 2 of schedule 1 to the relevant Generating Unit Agreement].</p> <p><i>[Note: Please that this definition applies to the SONI Grid Code only.]</i></p>
Deload Break Point	<p>The point at which due to technical reason a Generating Unit may need to pause during its MW Output reduction process.</p>
Deloading De-Loading	<p>The rate at which a Generation Unit <u>or Generating Unit (as the case may be)</u> reduces MW Output from Minimum Generation to zero</p>

Defined Term	Definition
Rate	<p>when it is instructed to cease output. There are up to two possible de-loadingDe-Loading rates, which are referred to as De-Loading Rate 1 and De-Loading Rate 2.</p> <p><i>[Note: Please note that the definition was modified from the definition in the EirGrid Grid Code.]</i></p>
Demand	<p>SONI:</p> <p><i>The amount of electrical power consumed byon the Total System comprising of Active and Reactive Power unless otherwise stated.</i></p> <p>EirGrid:</p> <p><i>The amount of electrical power consumed by the Power System comprising of Active and Reactive Power unless otherwise stated.</i></p>
Demand Customer	<p>A person to whom electrical Energy is provided by means of a direct connection to the Transmission System <u>or by a connection to a Distribution System</u>.</p> <p><i>Autoproducers are to be considered both Generators and Demand Customers.</i></p> <p><i>[Note: The part in italics applies to the EirGrid Grid Code only]</i></p> <p><i>[Note: Please note that this definition was taken from the EirGrid Grid Code.]</i></p>
Demand Profile	<p>The estimated consumption in MW Demand for a Demand Site or estimated aggregated consumption in MW Demand for Demand Sites represented by a Demand Side Unit AggregatorSide Unit for each Trading Period in the following Optimisation Time Horizon Period period and which must be submitted to the TSO in the Availability Notice under SDC 1.4.1.2.</p> <p><i>[Note: Please note that this definition is being considered further.]</i></p>
Demand Reduction	<p>The reduction in MW Demand which can be achieved in one currency zone by a Demand Side Unit or Aggregated Demand Side Unit for each Trading Period in the following Optimisation Time Horizon Period period and which must be submitted <u>by the User</u> to the TSO in an Availability Notice under SDC1.4.1.2.</p>
<u>Demand Reduction Capability</u>	<u>The reduction capability in MW Demand that can be achieved by the Demand Side Unit.</u>

Defined Term	Definition
Demand Side Unit	A Demand Site which houses a Demand Customer connected to the Transmission System or Distribution System which can deliver a Demand Reduction upon receipt of a Demand Reduction Dispatch Instruction from the TSO and which has a Demand Reduction capability. <u>An Individual Demand Site or Aggregated Demand Site with a Demand Reduction Capability</u> of at least 4 MW. <u>The Demand Side Unit shall be subject to Central Dispatch.</u>
Demand Side Unit Aggregator	A person who represents several Demand Sites, with an aggregated Demand Reduction not less than 4MW, by in particular preparing notices under SDC1 on behalf of these Demand Side Units and receiving Dispatch Instructions on behalf of these Demand Side Units under SDC2.
Demand Site	A premises owned by a Demand Customer connected to the Transmission System or Distribution System with a Demand Reduction capability. The Demand Site shall have a Maximum Import Capacity and shall not have a Maximum Export Capacity.
De-Synchronising	SONI: <i>The act of taking a Generating Unit off the NI System, to which it has been Synchronised, and like terms shall be construed accordingly.</i> EirGrid: <i>The act of taking a Generating Unit off the Network, to which it has been Synchronised, and like terms shall be construed accordingly.</i>
Dispatch	The issue by the TSO of instructions to a Generator, Pumped Storage Generator, Interconnector User <u>Owner</u> , Dispatchable Demand Customer, or <u>Generator Aggregator or Demand Side Unit Aggregator</u> in respect of its CDGU, Pumped Storage Plant Demand, Demand Side Unit, Aggregated Generating Units, Aggregated Demand Side Units or Interconnector Unit <u>tranche</u> pursuant to SDC2 and the term "Dispatched" shall be construed accordingly."
Dispatch Instruction	An instruction given by the TSO to a CDGU, Demand Side Unit, Interconnector Import Unit <u>tranche</u> and/or Pumped Storage Plant Demand to that User's approved Control Facility to change the output, fuel or manner of operation of the CDGU, Demand Side Unit, <u>Interconnector tranche</u> and/or Pumped Storage Plant Demand. "Instruct" and "Instructed" shall be construed accordingly. <i>[Note: Please note that this definition was modified from the definition in the EirGrid Grid Code.]</i>
Dispatchable Demand	A person <u>Supplier</u> who operates a Demand Side Unit, with a

Defined Term	Definition
Customer	<p>Demand Reduction capability not less than 4 MW, and who.</p> <p><i>[Note: Please note that this definition is subject to the Grid Code pursuant to any agreement with the TSO or otherwise <u>being considered further.</u>]</i></p>
Dispatchable WFPS or DWFPS	<p>A Controllable WFPS which must have a Control Facility in order to be dispatched via an Electronic Interface by the TSO.</p>
Distribution System	<p>EirGrid:</p> <p><i>The system consisting (wholly or mainly) of electric circuits, transformers and switchgear which are operated by and used for the distribution of electricity from Grid Supply Points or Generating Units or other entry points to the point of delivery to Customers or other Users and any Plant and Apparatus and meters used in connection with the distribution of electricity, but not including any part of the Transmission System.</i></p> <p><i>[Note: Please note that the definition above was modified from the definition in the EirGrid Grid Code.]</i></p> <p>SONI:</p> <p><i>The electric lines within the Authorised Area, as defined in the TSO Licence, owned by the Distribution Licensee (but not, for the avoidance of doubt, any lines forming part of the transmission system or any Interconnector), and any other electric lines which the Northern Ireland Authority for Energy Regulation may specify as forming part of the distribution system, including (in each case) any electrical plant and/or meters used in connection with distribution.</i></p> <p><i>[Note: Please note that the definition above was modified from the definition in the draft transmission licence granted to SONI (5 January draft) and may be amended further pending the final draft of that licence.]</i></p>
Dwell Time	<p>The duration for which the Generating Unit must remain at the Dwell Time Trigger Point during a change in its MW Output while ramping up or down between Minimum Generation and Maximum Generation <u>instructed MW Ouput</u>.</p>
Dwell Time Trigger Point	<p>A constant MW level at which a Generating Unit must remain while ramping up or down between Minimum Generation and Maximum Generation <u>instructed MW Ouput</u>. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which was introduced for Part</i></p>

Defined Term	Definition
	<i>1 of Appendix A to SDC1.]</i>
Electronic Interface	A system, in accordance with the requirements of the TSO's data system, at the Control Facility , providing an electronic interface between the TSO and a User , for issuing and receiving instructions, <u>including Dispatch Instructions</u> , as provided for in the Grid Code and established pursuant to an agreement between the TSO and at <u>the</u> User .
End Point of Start Up Period	The time after which the rate of change of the Generating Unit Output is not dependent upon the initial warmth <u>Warmth</u> of the Generating Unit . <i>[Note: Please note that this definition was taken from the definition for "End of Start-Up Period" in the EirGrid Grid Code.]</i>
Energy Limit	The target amount of energy <u>Energy</u> to be generated by <u>an</u> Energy Limited Generating Unit within the Trading Day .
Energy Limit Factor	A factor between zero and one, which is applied to the Energy Limit for use in calculating the scheduled Energy of Energy Limited Generating Units in the period between the end of the Trading Day and the end of the Optimisation Time Horizon Period <u>period</u> .
Energy Limit Start	06:00 hours on the Trading Day .
Energy Limit Stop	06.00 hours on the day following the Trading Day .
Energy Limited Generating Unit	A Hydro Unit with a limit on the energy <u>Energy</u> it can deliver in a specified time period.
Forecast Minimum Output Profile	The Forecast Minimum Output Profile must contain the <u>Participant</u> User 's forecast of the average level of <u>Minimum</u> minimum MW Output, in MW, for the Generator Unit <u>Pumped Storage</u> for each Trading Period in the Optimisation Time Horizon . <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken from the TSC.]</i>
Forecast Minimum Generation Profile	The Forecast Minimum Generation Profile must contain the <u>Participant</u> User 's forecast of the average level of Minimum Generation , in MW, for the Generator Unit <u>User's Plant</u> for each Trading Period in the Optimisation Time Horizon . <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken and modified from the TSC and is being considered further.]</i>

Defined Term	Definition
Frequency Control	SONI: <i>The control of the Frequency on the Total System.</i> EirGrid: <i>The control of the Frequency on the Power System.</i>
Frequency Sensitive Mode	The operation of a Generating Unit whereby its generation level is varied automatically to compensate for variations in the Frequency of the System . <u><i>[Note: Please note that consideration is being given to referring to “and Frequency Insensitive Mode shall be construed accordingly”.]</i></u>
<u>Gas Turbine Unit</u>	<u><i>SONI</i></u> <u><i>A Generating Unit fuelled by Gas or distillate.</i></u> <u><i>EirGrid</i></u> <u><i>A Generation Unit fuelled by Gas.</i></u>
Gate Closure	10.00 hours on the day preceding the relevant Trading Day to which a notice relates. <i>[Note: Please note that this definition was taken and modified from the TSC.]</i>
Generating Unit	SONI: <i>Other than in the case of Wind Farm Power Stations, a turbine generator within a Power Station, together with all Plant and Apparatus at that Power Station up to the high voltage bushings at the Generator Transformer which relate exclusively to the operation of that turbine generator (which in the case of a steam turbine will include the boiler and heat exchanger and in the case of a gas turbine will include the gas generator/combustion turbine). In the case of Wind Farm Power Stations, a wind turbine generator within a Wind Farm Power Station, together with all Plant and Apparatus (including any step-up transformer) which relates exclusively to the operation of that wind turbine generator. It will be either a Synchronous Generating Unit or a Non-Synchronous Generating Unit.</i> EirGrid: <i>Has the same meaning as Generation Unit.</i>

Defined Term	Definition
Generator Aggregator	A person who represents several Generating Units , the combined <u>each of which does not have a Registered Capacity/Contracted Capacity greater than 10 MW and the combined Registered Capacity/Contracted Capacity</u> of which is equal to and/or greater than 4 MW, by in particular preparing notices under SDC1 on behalf of these 1, in relation to those <u>Generating Units</u> and receiving Dispatch Instructions on behalf of these <u>in relation to those</u> Generating Units under SDC2. <u>For the avoidance of doubt, a Generator Aggregator cannot aggregate a Generating Unit with an output equal to or above 10 MW.</u>
Generator Declared Inflexibilities	The inflexibilities declared by a Generator to the TSO under SDC1 and which the TSO must take into account under SDC1.4.5.3 when compiling the Indicative Operations Schedule.
Generator Terminal	The stator terminals of a Generating Unit . <i>[Note: Please note that this definition was taken from the SONI Grid Code.]</i>
Grid Code	Term defined in SONI Grid Code as: <i>The Grid Code prepared pursuant to the TSO's Licence, as from time to time revised in accordance with the TSO's Licence.</i> Term defined in EirGrid Grid Code as: <i>The code prepared by the TSO pursuant to section 33 of the Act, and approved by the Commission, as from time to time revised, amended, supplemented or replaced with the approval of or at the instance of the Commission.</i>
Hot Cooling Boundary	The period of time, following De-Synchronisation of a Generating Unit after which the Warmth State transfers from being Hot <u>hot</u> to being Warm <u>warm</u> . <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken <u>is modified from the definition in the TSC.</u>]</i>
Hot Start	Any Synchronisation of a Generating Unit that has previously not been Synchronised for a period of time shorter than its submitted Hot Cooling Boundary . <i>[Note: Please note that this definition was taken from the TSC and was introduced for the purposes of Appendix A to SDC1.]</i>
Hydro Unit	A Unit which generates electricity from the movement of water

Defined Term	Definition
	excluding Pumped Storage ;
Incremental Price	The marginal price at a particular MW output Output , for increasing energy Energy output (or reducing demand) by 1 MWh, once that unit has started to generate energy Energy (or reduce Demand, as the case may be) .
Indicative Market Schedule	The schedule prepared by the Market Operator pursuant to the TSC.
Indicative Operations Schedule	The schedule prepared by the TSO conjunction with the Other TSO pursuant to SDC 1.4.5.1 1.4.8.1 .
<u>Individual Demand Site</u>	<u>A single premises of a Demand Customer connected to the Transmission System or Distribution System with a Demand Reduction Capability. The Individual Demand Site shall have a Maximum Import Capacity and shall not have a Maximum Export Capacity.</u>
Initial Demand Reduction	The Demand Reduction of a Demand Side Unit or Aggregated Demand Side Unit following a Dispatch Instruction from the TSO when the Demand Reduction is at 0 MW for a period greater than the Maximum Down Time specified by the Dispatchable Demand Customer or the Demand Side Unit Aggregator in the Technical Parameters 24 hours .
Initial Demand Reduction Time	The time as specified by the Dispatchable Demand Customer or the Demand Side Unit Aggregator in the Technical Parameters and is the time it takes for the Dispatchable Demand Customer to be able to implement the Initial Demand Reduction from receipt of the Dispatch Instruction from the TSO.
Interconnector	Electric lines and electric Plants Plant used for conveying electricity or provision of Reserves from outside both of Northern Ireland and the Republic of Ireland directly to or from a substation or converter station in either Northern Ireland or the Republic of Ireland.
Interconnector Filter	A device within an HVDC Interconnector which prevents the transmission of harmonics to the Transmission System to which that Interconnector is connected and which also provides a means of controlling the MVA Mvar flow to and from that HVDC Interconnector .
Interconnector Owner	A person who owns an Interconnector .
Inter-jurisdictional Tie Line	The lines, facilities and equipment that connect the Transmission System transmission system of the Republic of Ireland to the Transmission System transmission system of Northern Ireland.

Defined Term	Definition
	<i>[Note: Please note that this definition was modified from the definition in the EirGrid Grid Code.]</i>
<u>Interested User</u>	<u>As defined in the Metering Code.</u> <i>[Note: This definition applies to the SONI Grid Code only.]</i>
Intermediary	The person representing a Generating Unit <u>as for the purposes</u> provided for in the TSC.
Licence Standards	SONI: <i>The standards set out or referred to in [Condition 19 of Part II (Transmission and distribution system security and planning standards and quality of service)] and in [Condition 6 of Part III (Obligation on economic purchasing by power procurement manager)] of the TSO Licence. <u>Condition 20 of the TSO Licence.</u></i> <i>[Note: Please note that references to licence conditions above are to the existing NIE licence and that these references will need to be updated once the TSO Licence has been finalised.]</i> EirGrid: <i>The standards set out or referred to in the TSO Licence.</i>
Load	The Active Power or Reactive Power , as the context requires, generated, transmitted or distributed and all like terms shall be construed accordingly. <i>[Note: This definition was taken from the SONI Grid Code. The EG definition will be amended accordingly.]</i>
Loading Rate	The Loading Rate Cold , Loading Rate Hot or Loading Rate Warm as the case may be.
Load Up Break Point Cold	The break point which defines the shared MW boundary between the two Loading Rates Cold . The first Loading Rate Cold applies from Block Load to the first Load Up Break Point Cold , the second Loading Rate Cold applies from the first Load Up Break Point Cold to the second Load Up Break Point Cold , the third Loading Rate Cold applies from the second Load Up Break Point Cold to the end point of the Start -Up period, which should be set equal to the Minimum Generation . <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken and modified from the TSC.]</i>

Defined Term	Definition
Load Up Break Point Hot	<p>The break point which defines the shared MW boundary between the Loading Rates Hot. The first Loading Rate Hot applies from Block Load to the first Load Up Break Point Hot, the second Loading Rate Hot applies from the first Load Up Break Point Hot to the second Load Up Break Point Hot, the third Loading Rate Hot applies from the second Load Up Break Point Hot to the end point of the Start - Up period, which should be set equal to the Minimum Generation.</p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken and modified from the TSC.]</i></p>
Load Up Break Point Warm	<p>The break point which defines the shared MW boundary between the Loading Rates Warm. The first Loading rate applies from Block Load to the first Load Up Break Point Warm, the second Loading Rate Hot applies from the first Load Up Break Point Warm to the second Load Up Break Point Warm, the third Loading Rate Warm applies from the second Load Up Break Point Warm to the end point of the Start -Up period, which should be set equal to the Minimum Generation.</p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken and modified from the TSC.]</i></p>
Loading Rate Cold	<p>The rate at which a Generating Unit increases Output from Block Load to Minimum Generation when it is instructed to Cold Start. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken and modified from the TSC.]</i></p>
Loading Rate Hot	<p>The rate at which a Generating Unit increases Output from Block Load to Minimum Generation when it is instructed to Hot Start. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken and modified from the TSC.]</i></p>
Loading Rate Warm	<p>The rate at which a Generating Unit increases Output from Block Load to Minimum Generation when it is instructed to Warm Start. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which was introduced for Part</i></p>

Defined Term	Definition
	<i>1 of Appendix A to SDC 1, was taken and modified from the TSC.]</i>
Low Frequency Relay	An electrical measuring relay intended to operate when its characteristic quantity (Frequency) reaches the relay settings by decrease in Frequency . <i>[Note: Please note that this definition was taken from the SONI Grid Code.]</i>
Market Operator	As defined <u>Shall have the meaning set out</u> in the TSC.
Max Ramp Down Rate	The maximum Ramp Down Rate of a Demand Side Unit . <u>In the case of a Demand Side Unit which consists of an Aggregated Demand Site this shall be the aggregated maximum Ramp Down Rate of the Individual Demand Sites.</u> <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken from the TSC.]</i>
Max Ramp Up Rate	The maximum Ramp Up Rate of a Demand Side Unit . <u>In the case of a Demand Side Unit which consists of an Aggregated Demand Site this shall be the aggregated maximum Ramp Up Rate of the Individual Demand Sites.</u> <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken from the TSC.]</i>
Maximisation	SONI: <i>An increase in MW Output above the Contracted Capacity up to the level of the Short Term Maximisation Capability, and the terms “Maximise” and “Maximised” shall be construed accordingly.</i> EirGrid: <i>An increase in MW Output above the Registered Capacity up to the level of the Short Term Maximisation Capability, and the terms “Maximise” and “Maximised” shall be construed accordingly.</i>
Maximisation Instruction	A Dispatch instruction issued by the TSO to the Generator to maximise <u>Maximise</u> the MW Output of a Generating Unit .
Maximum Down Time	The maximum period of time during which Demand Reduction at a Demand Side Unit can be Dispatched . <i>[Note: Please note that this defined term is being introduced for the purposes of Part 1 of Appendix A to SDC 1-1 and was taken from the TSC.]</i>

Defined Term	Definition
Maximum Export Capacity	The value (in MW, <u>MVA, kW and/or kVA</u>) provided in accordance with the User's Connection Agreement. <i>[Note: Consideration is being given to whether to Aggregators should be referred to also.</i>
Maximum Import Capacity	The values (kW and/ or kVA) provided in accordance with the User's Connection Agreement. <i>[Note: Consideration is being given to whether to Aggregators should be referred to also.</i>
Maximum On Time	The maximum time that a Generating Unit can run following Start Up. <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was modified from the definition in the TSC.]</i>
Maximum Storage Capacity	The maximum amount of energy <u>Energy</u> that can be produced from the reservoir of a Pumped Storage Generator for a Trading Day. <i>[Note: Please note that this defined term is being introduced for the purposes of Part 1 of Appendix A to SDC1.]</i>
Merit Order	An order of CDGUs, Controllable WFPSs, Demand Side Units and/or, Pumped Storage Plant Demand, Aggregated Demand Side Units and Aggregated Generator <u>Generating</u> Units Price Sets and/or Interconnector Price Quantity Pairs compiled by the TSO in conjunction with the Other TSO pursuant to SDC 1.
<u>Meter Reconciliation Statement</u>	<u>As defined in the Metering Code.</u> <u>[Note: This definition applies to the SONI Grid Code only.]</u>
<u>Metering</u>	<u>As defined in the Metering Code.</u> <u>[Note: This definition applies to the SONI Grid Code only.]</u>
Minimum Demand Regulation (MDR)	That minimum margin of Active Power to provide a sufficient regulating margin for adequate Frequency Control . <i>[Note: Please note that this definition was modified from the definition in the SONI Grid Code.]</i>
Minimum Down Time	In the case of Demand Side Units, the <u>The</u> minimum period of time during which Demand Reduction at a Demand Side Unit can be Dispatched .

Defined Term	Definition
	<p><i>(In the case of Generator Units, the minimum time that must elapse from the time of a Generation Unit Shutdown before it can be instructed to Start-up).</i></p> <p><i>[Note: Words in brackets apply to the EirGrid Grid Code only]</i></p> <p><i>[Note: Please note that this definition is being introduced for the purposes of Part 1 of Appendix A to SDC1.]</i></p>
Minimum off time	<p>EirGrid:</p> <p><i>The minimum time that must elapse from the time of a Generation Unit Shutdown before it can be instructed to Start-up.</i></p> <p>SONI:</p> <p><i>The minimum time that must elapse from the time of a Generating Unit Shut Down before it can be instructed to Start-Up.</i></p> <p><i>[Note: Please note that this definition is being introduced for the purposes of Part 1 of Appendix A to SDC1 and is taken from the EirGrid Grid Code.]</i></p>
Minimum on time	<p>EirGrid:</p> <p><i>The minimum time that must elapse from the time of a Generation Unit Start-up before it can be instructed to Shutdown.</i></p> <p>SONI:</p> <p><i>The minimum time that must elapse from the time of a Generating Unit Start-Up before it can be instructed to Shut Down.</i></p> <p><i>[Note: Please note that this definition is being introduced for the purposes of Part 1 of Appendix A to SDC1.]</i></p>
Minimum Storage Capacity	<p>The minimum amount of energyEnergy that must be produced from the reservoir of a Pumped Storage Generator for a Trading Day.</p> <p><i>[Note: Please note that this defined term is being introduced for the purposes of Part 1 of Appendix A to SDC1.]</i></p>
Minimum Generation	<p>The minimum MW Output which a Generating Unit can generate continuously, registered with the TSO under SDC1 as a Technical Parameter.</p> <p><i>[Note: Please note that this definition was modified from the definition in the EirGrid and SONI Grid Codes.]</i></p>

Defined Term	Definition
MW Output	<p>The actual Active Power output in MW of a Generating<u>Generation</u> Unit at the Connection Point .</p> <p><i>[Note: Please note that this definition will apply to the EirGrid Grid Code only. SONI use the defined term “Output”.]</i></p>
NI Distribution System	The Distribution System owned and operated by NIE.
NI System	Together, the NI Transmission System and the NI Distribution System.
NI Transmission System	<p>The system consisting (wholly or mainly) of high voltage electricity lines owned and/or operated by SONI for the purposes of the transmission of electricity from one Power Station to a sub-station or to another Power Station or between sub-stations or to or from any External Interconnection including any Plant and Apparatus and meters owned or used by SONI in connection with the transmission of electricity. <u>In SONI Code:</u></p> <p><u>Together, the Transmission System and the Distribution System.</u></p> <p><u>In EirGrid (proposed definition):</u></p> <p><u>Together, the Other Transmission System and the distribution system in Northern Ireland.</u></p>
No Load Cost	A price which forms part of Commercial Offer Data expressed in € or £/hour and which is invariant in the level of MW Output and which applies at all times when the level of MW Output is greater than zero.
Non-Centrally Dispatched Generating Units <u>(NCDGU)</u>	<p>A Generating Unit not subject to Central Dispatch.</p> <p><i>[Note: This has been adapted from the EirGrid and SONI Grid Codes.]</i></p>
Nomination Profile	The profile of the MW Output intended for a Generating Unit in respect of each Trading Period in the Trading Day as submitted under the TSC.
Open Cycle Mode	The mode of operation of a CCGT Installation where only the Gas Turbine Unit is operational (i.e. without operation of any associated Steam Turbine Units).
<u>Open Cycle Gas Turbine Unit</u>	<p><u>SONI:</u></p> <p><u>A Generating Unit driven by a gas turbine other than a CCGT Installation or CCGT Module.</u></p>

Defined Term	Definition
	<p><u>EirGrid:</u></p> <p><u>A Generation Unit driven by a gas turbine other than a CCGT Installation or CCGT Unit.</u></p>
<p>Operating Mode</p>	<p>An Operating Mode of a Generating Unit is a pre-defined method of operating that Generating Unit, as agreed between the TSO and the User.</p> <p><i>[Note: Please note that this definition was taken from the EirGrid Grid Code.]</i></p>
<p>Optimisation Time Horizon</p>	<p>The time period from and including 06:00 hours on the relevant Trading Day up to but not including 12:00 hours on the subsequent Trading Day.</p> <p><i>[Note: Please note that this definition was taken and modified from the TSC.]</i></p>
<p>Other Grid Code</p>	<p>SONI:</p> <p><i>The code prepared by the Other TSO pursuant to section 33 of the Electricity Act 1999 of the Republic of Ireland, and approved by the relevant regulatory authority, as from time to time revised, amended, supplemented or replaced with the approval of or at the instance of the relevant regulatory authority.</i></p> <p>EirGrid:</p> <p><i>The code prepared pursuant to the licence to carry out electricity transmission activities granted to the Other TSO pursuant to Article 10(1)(b) of the Electricity (Northern Ireland) Order 1992 in Northern Ireland, as from time to time revised in accordance with such licence.</i></p>
<p>Other Relevant Data</p>	<p>The data <u>from a User</u> referred to in SDC1.4.4.4.</p>
<p>Other TSO</p>	<p>SONI:</p> <p><i>The holder of a licence granted pursuant to Section 14 of the Electricity Regulation Act 1999 in the Republic of Ireland to operate a Transmission System.</i></p> <p>EirGrid:</p> <p><i>The holder of a licence granted pursuant to Article 10(1)(b) of the Electricity (Northern Ireland) Order 1992 in Northern Ireland to operate a Transmission System.</i></p>

Defined Term	Definition
Other Transmission System	SONI: <i>The transmission system operated by the Other TSO in the Republic of Ireland.</i> EirGrid: <i>The transmission system operated by the Other TSO in Northern Ireland.</i>
Output	<i>The actual Active Power output in MW of a Generating Unit at the Connection Point derived from data measured pursuant to the Metering Code.</i> <i>[Note: Please note that this definition will apply to the SONI Grid Code only. EirGrid use the defined term “MW Output”.]</i> <i>[Note: Further consideration is being given as to whether this definition is suitable for legacy generation in the North and whether there are any issues relating to losses on the Interconnector.]</i>
Price Quantity Pairs	Incremental Prices and their respective quantities quantity ranges for Generating Units, Demand Side Units, Aggregated Generating Units and Aggregated Demand Side Units Interconnector tranches as part of Commercial Offer Data . <i>[Note: Please note that further consideration is being given to this definition.]</i>
Price Sets	The Price Quantity Pairs, Start-up Costs, Shutdown Costs and No Load Costs submitted by a User under SDC1.
Priority Dispatch	The Dispatch given priority, as afforded under governing legislation in either jurisdiction.
Pumped Storage Plant Demand	The amount of electrical Energy consumed by a Pumped Storage Plant in pumping water to an upper reservoir
Pumped Storage Generation	The production of electrical Energy produced by a Pumped Storage Plant in releasing water from an upper reservoir.
Pumped Storage Generator	A Generator which owns and/or operates any Pumped Storage Plant . <i>[Note: Please note that this definition was taken from the EirGrid Grid Code.]</i>
Pumped Storage Plant	A Generation Plant that produces Active Energy using water from an upper reservoir and consumes Energy by pumping water up to the

Defined Term	Definition
	<p>same reservoir.</p> <p><i>[Note: Please note that this definition was taken from the EirGrid Grid Code.]</i></p>
Ramp Down Break Point	<p>The MW level at which the Ramp Down Rate changes. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p>
Ramp Down Rate	<p>SONI:</p> <p><i>The maximum rate of decrease in a Generating Unit's Output. The Ramp-down Down Rate applies over the output range from its Contracted Capacity to Minimum Generation. The rate of change is not dependent upon the initial warmth Warmth of the plant but may depend on the MW Output. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></i></p> <p>EirGrid:</p> <p><i>The maximum rate of decrease in a Generating Unit's Output after the End Of Start-up Period. The Ramp-down Down Rate applies over the output range from its Registered Capacity to Minimum Generation. The rate of change is not dependent upon the initial warmth Warmth of the plant but may depend on the MW Output. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></i></p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken from the EirGrid Grid Code]</i></p>
Ramp Up Break Point	<p>The MW level at which the Ramp Up Rate changes. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p>
Ramp Up Rate	<p>SONI:</p> <p><i>The maximum rate of increase in a Generating Unit's Output. This rate of increase continues until the Generating Unit reaches the level of output instructed by the control room operator of its Contracted Capacity. The rate of increase is not dependent upon the initial warmth Warmth of the plant but may depend on the MW Output. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></i></p> <p>EirGrid</p>

Defined Term	Definition
	<p>The maximum rate of increase in a Generating Unit's Output after the End Of Start-up Period. This rate of increase continues until the Generating Unit reaches the level of output instructed by the control room operator of its Registered Capacity. The rate of increase is not dependent upon the initial warmth Warmth of the plant but may depend on the MW Output. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken from the EirGrid Grid Code's definition for Ramp Up Capability.]</i></p>
Re-declaration	Notification to the TSO by the User of any revisions to data, pursuant to SDC 1.4.4.6. 1.4.5.
<u>Regulatory Authority/ Regulatory Authorities</u>	<p><u>Regulatory Authority: The authority appointed under legislation to regulate the electricity industry in the respective jurisdiction. In the Republic of Ireland it is the Commission and in Northern Ireland it is NIAUR (Northern Ireland Authority for Utility Regulation).</u></p> <p><u>Regulatory Authorities: Each Regulatory Authority taken together.</u></p> <p><u>[Note: Please note that this definition applies to the EirGrid Code only.]</u></p>
Regulating Margin	The margin of generating capacity that is Synchronised over Demand which is required in order to maintain Frequency Control .
Reserve Characteristics	<p>SONI:</p> <p>The MW level of reserve available at any given MW Output of a CDGU as set out in the Sustained Load Diagram.</p> <p>EirGrid:</p> <p>The MW level of reserve available at any given MW Output of a CDGU as set out in the available Ancillary Service Agreement.</p>
<u>Scheduling</u>	<u>The process of compiling an Indicative Operations Schedule as set out in SDC1, and the term "Scheduled" and like terms shall be construed accordingly.</u>
Scheduling and Dispatch Code (SDC)	The parts of the Grid Code which specify the Scheduling and Dispatch process.
<u>Sections Under Common Governance</u>	<u>In order to support the efficient running of the Single Electricity Market certain sections of the Grid Code and the Other Grid Code are under common governance. Modifications and derogations to</u>

Defined Term	Definition
	<p><u>these sections of the Grid Code will effectively require agreement and direction from the Authority and the Other Authority/ from the relevant Regulatory Authorities and the TSOs. SDC1 and SDC2 are Sections Under Common Governance.</u></p> <p><u>[Note: Please note that “Authority” and “Other Authority” will be referred to in the SONI Grid Code and “Regulatory Authorities” will be referred to in the EirGrid Grid Code.]</u></p>
Short Notice Re-declaration	A Re-declaration where changes apply to values relating to Trading Periods occurring within 4 hours of receipt by the TSO of the Re-declaration .
Short Term Maximisation Capability	<p>EirGrid:</p> <p><i>The capability of a Generating Unit to deliver, for a limited duration of time, MW Output greater than its Registered Capacity.</i></p> <p>SONI:</p> <p><i>The capability of a Generating Unit to deliver, for a limited duration of time, MW Output greater than its Contracted Capacity.</i></p> <p><i>[Note: Please note that this definition was taken and modified from the EirGrid Grid Code.]</i></p>
Shutdown	<p><i>The condition of a Generating Unit where the generator rotor is at rest or on barring.</i></p> <p><i>[Note: This term applies to SONI only]</i></p>
Shut Down	<p><i>The condition of a Generation Unit where the generator rotor is at rest or on barring.</i></p> <p><i>[Note: This term applies to EirGrid only]</i></p>
<u>Shutdown Cost or Shut Down Cost</u>	<u>The costs associated with shutting down a Demand Side Unit.</u>
Single Electricity Market (SEM)	<p>The wholesale all-island single electricity market established and governed pursuant to the relevant legislation and the TSC.</p> <p><i>[Note: Please note that this definition was taken from the TSC.]</i></p>
Soak Time Cold	The duration of time for which the Generating Unit must remain at the Soak Time Trigger Point Cold during a Cold Start . <u>[There may be circumstances where more than one parameter applies and this</u>

Defined Term	Definition
	<p><u>is indicated by adding a number at the end of the parameter.</u></p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
Soak Time Hot	<p>The duration of time for which the Generating Unit must remain at the Soak Time Trigger Point Hot during a Hot Start. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
Soak Time Trigger Point Cold	<p>A constant MW level at which a Generating Unit must remain while loading up between Block Load and Minimum Generation after a Cold Start. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken from the TSC.]</i></p>
Soak Time Trigger Point Hot	<p>A constant MW level at which a Generating Unit must remain while loading up between Block Load and Minimum Generation after a Hot Start. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
Soak Time Trigger Point Warm	<p>A constant MW level at which a Generating Unit must remain while loading up between Block Load and Minimum Generation after a Warm Start. <u>[There may be circumstances where more than one parameter applies and this is indicated by adding a number at the end of the parameter.]</u></p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
Soak Time Warm	<p>The duration of time for which the Generating Unit must remain at that Soak Time Trigger Point Warm during a Warm Start. <u>[There may be circumstances where more than one parameter applies and</u></p>

Defined Term	Definition
	<p><u>this is indicated by adding a number at the end of the parameter.</u></p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
Special Action	Those actions referred to in SDC2.4.3.
Special Protection Scheme	<p>A control or protection scheme to facilitate power System<u>system</u> operation by the intertripping of circuit breakers or other <i>control actions</i>/<u>Control Action</u>.</p> <p><u>[Note: Control Actions is used as a defined term in the EirGrid Grid Code.]</u></p>
Standing Technical Offer Data	<p>Technical offer data provided on registration to the TSC, and updated in accordance with the TSC, by a User of each of its Units in accordance with the TSC.</p> <p><i>[Note: Please note that further consideration is being given to the definition of this term.]</i></p>
Start-upup Cost	<p>The costs associated with Start-Ups.</p> <p><i>[Note: Please note that this definition was taken from the TSC and is being considered further.]</i></p>
Synchronous Compensation	<p>The operation of rotating synchronous Apparatus for the specific purpose of either the <i>generation</i>/<u>Generation</u> or absorption of Reactive Power.</p> <p><u>[Note: Please note that “Generation” is defined in the EirGrid Grid Code but not the SONI Grid Code.]</u></p>
Synchronous Start-Up Time Cold	<p>The time taken to bring a Generating Unit to a Synchronised state from a Cold (De-Synchronised) state.</p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
Synchronous Start-Up Time Hot	<p>The time taken to bring a Generating Unit to a Synchronised state from a Hot (De-Synchronised) state.</p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
Synchronous Start-Up	The time taken to bring a Generating Unit to a Synchronised state

Defined Term	Definition
Time Warm	<p>from a Warm (De-Synchronised) state.</p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken and modified from the TSC.]</i></p>
System	<p>SONI:</p> <p><i>Any User System and/or the NI System as the case may be.</i></p> <p>EirGrid:</p> <p><i>Any User System and/or the Transmission System as the case may be.</i></p>
System Support Services	<p>SONI:</p> <p><i>Has the meaning set out in Condition 1 of the TSO Licence.</i></p> <p>EirGrid:</p> <p><i>Those services defined as System Support Services in Condition 1 of the TSO Licence granted to the Other TSO.</i></p>
Target Reservoir Levels	<p>Part of the Commercial Offer Data for a Pumped Storage Generating Unit and means the target level of the reservoir for the end of the Trading Day.</p> <p><i>[Note: Please note that this definition was taken from the TSC.]</i></p>
Target Reservoir Level Percentage	<p>As defined in the TSC.</p>
Target Frequency	<p>SONI:</p> <p><i>That Frequency determined by the TSO, in its reasonable opinion, as the desired operating Frequency of the Total System. This will normally be 50.00Hz plus or minus 0.05Hz, except in exceptional circumstances as determined by the TSO, in its reasonable opinion when this may be 49.90 or 50.10Hz.</i></p> <p>EirGrid:</p> <p><i>That Frequency determined by the TSO, in its reasonable opinion, as the desired operating Frequency of the Power System.</i></p>
Technical Parameters	<p>SONI:</p> <p><i>Those parameters listed in Appendix A to SDC1 relating to CDGUs.</i></p>

Defined Term	Definition
	<p>EirGrid:</p> <p><i>The technical capabilities, flexibilities and limitations for the operation of a Generation Unit <u>User's Plant</u> as registered or declared in accordance with the provisions of the Grid Code <u>including those parameters listed in Appendix A to SDC1 relating to CDGUs and Demand Side Units</u>.</i></p> <p><i>[Note: Please note that the definitions above were taken respectively from the SONI and EirGrid Grid Codes.]</i></p>
Technical Parameters Notice	A notification as submitted under SDC1.4.4.1.
Testing	<p>SONI:</p> <p><i>Testing carried out by the TSO pursuant to OC11.6 of CDGUs and Users' Equipment and the term "Test" shall be construed accordingly.</i></p> <p>EirGrid:</p> <p><i>Testing carried out by the TSO pursuant to OC10 and/or CC and the term "Test" shall be construed accordingly.</i></p>
Thermal Plant	A Generating Unit that uses any source of thermal energy <u>Energy</u> .
Trading and Settlement Code (TSC)	<p>A code of that name <u>The Single Electricity Market Trading and Settlement Code</u> adopted by the Market Operator and approved by the regulatory authorities <u>Regulatory Authorities / by the Authority and the Other Authority</u>.</p> <p><i>[Note: Please note that the EirGrid Grid Code defines the term "Regulatory Authority".]</i></p>
Trading Day	A 24-hour period combining forty-eight 30 minute Trading Periods (except on the clock change days in spring and autumn when the period will be 23 and 25 hours respectively with forty-six and fifty 30 minute Trading Periods respectively). Each Trading Day commences at 06.00 hours. <i>For NI-PPA CDGUs references to Trading Day in the Scheduling and Dispatch Code shall be read as if they were references to Schedule Day for the purposes of the Power Station Agreements and Generating Unit Agreements.</i>
Trading Period	A thirty minute period beginning on each hour or half hour.
Transmission System	<p>SONI:</p> <p><i>The System consisting (wholly or mainly) of high voltage electric lines and cables operated by a TSO for the purposes of transmission of</i></p>

Defined Term	Definition
	<p>electricity from one Power Station to a sub-station or to another Power Station or between sub-stations or to or from any External Interconnection including any Plant and Apparatus and meters owned or operated by the TSO or TO in connection with the transmission of electricity.</p> <p>EirGrid:</p> <p>The System consisting (wholly or mainly) of high Voltage electric lines and cables operated by a TSO for the purposes of transmission of electricity from one Power Station to a sub-station or to another Power Station or between sub-stations or to or from any External Interconnection including any Plant and Apparatus and meters owned or operated by the TSO or TAO in connection with the transmission of electricity.</p>
Transmission System Operator (TSO)	<p>In EirGrid:</p> <p>The holder of the Licence granted pursuant to Section 14 of the Electricity Regulation Act 1999 to operate a Transmission System.</p> <p>In SONI:</p> <p>The holder of the Licence granted pursuant to Article 10(1)(b) of the Electricity (Northern Ireland) Order 1992 to operate a Transmission System.</p>
TSO Licence	<p>A Licence authorising a TSO to carry out electricity transmission activities, granted either pursuant to Article 10(1)(b) of the Electricity (Northern Ireland) Order 1992 in Northern Ireland or pursuant to section 14 of the Electricity Regulation Act 1999 in the Republic of Ireland.</p>
Under Test Flag	<p>The flag indicating the under test status accorded to certain Generating Units by the TSO in accordance with the relevant Grid Code. Under Test in accordance with the TSC is subject to the requirements both that the Market Operator has verified the status with the TSO and that the relevant Unit is so permitted as set out in paragraph 5.169 of the TSC.</p>
Unit Load	<p>The difference between the gross MW Output and net MW Output of a Generating Unit, which reflects the load associated with the Generating Unit. This has the same meaning as Auxiliary Load.</p> <p><i>[Note: Words in italics apply to EirGrid only.]</i></p>
Var	<p>A single unit of Reactive Power.</p> <p><i>[Note: Please note that this definition has been taken from the SONI</i></p>

Defined Term	Definition
	<i>Grid Code.]</i>
Voltage Control	<p>SONI:</p> <p><i>The retention of the voltage on the System within acceptable limits.</i></p> <p><i>[Note: Please note that this definition was modified from the definition in the EirGrid Grid Code.]</i></p> <p>EirGrid:</p> <p><i>The retention of the Voltage on the System within acceptable limits.</i></p>
Warm Cooling Boundary	<p>The period of time, which must be greater than that defined by the Hot Cooling Boundary, post De-Synchronisation of a Generating Unit after which the Generating Unit's Warmth State transfers from being Warm<u>warm</u> to Cold<u>cold</u>.</p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1, is taken<u>modified</u> from the <u>definition in the TSC.</u>]</i></p>
Warm Start	<p>Any Synchronisation of a Generating Unit that has previously not been Synchronised for a period of time equal to or longer than its submitted Hot Cooling Boundary but shorter than its submitted Warm Cooling Boundary.</p> <p><i>[Note: Please note that this definition was taken from the TSC and was introduced for the purposes of Appendix A to SDC1.]</i></p>
Warmth	<p>SONI:</p> <p><i>The temperature related condition of a CDGU which changes according to the length of time since the CDGU was last De-Synchronised, expressed as various levels of warmth (for example "hot", "warm" and "cold") as may be specified (dependent upon the design of the CDGU) in the Generating Unit Agreement relating to that CDGU.</i></p> <p>EirGrid:</p> <p><i>The temperature related condition of a CDGU which changes according to the length of time since the CDGU was last De-Synchronised, expressed as various levels of warmth (dependent upon the design of the CDGU).</i></p> <p><i>[Note: Please note that this definition was taken from the SONI Grid Code.]</i></p>

Defined Term	Definition
Warmth State	<p>Either cold, warm or hot, as defined under the timeframes since last De-Synchronisations for Cold Start, Warm Start or Hot Start respectively.</p> <p><i>[Note: Please note that this definition, which is being introduced for the purposes of Part 1 of Appendix A to SDC1]</i></p>
<u>Within-Day Test</u>	<p><u>SONI:</u></p> <p><u>[A Test with a total duration of less than 6 hours in any Trading Day, where the Active Power produced during the total duration of the test is less than:</u></p> <p><u>(i) 3 times the Active Power which would be produced by the Plant undergoing a Test during 1 hour of operation at the Plant's Registered Capacity;</u></p> <p><u>(ii) 500MWh]</u></p> <p><u>[Note: Please note that this definition is being considered further.]</u></p> <p><u>EirGrid:</u></p> <p><u>An Operational Test with a total duration of less than 6 hours in any Trading Day, where the Active Energy produced during the total duration of the test is less than:</u></p> <p><u>(i) 3 times the Active Energy which would be produced by the Test Proposer's Plant during 1 hour of operation at the Plant's Registered Capacity;</u></p> <p><u>(ii) 500MWh.</u></p>