

Single Electricity Market

Grid Code – Common Sections

NEW SDC DEFINITIONS

20 April 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 consideration is currently being given to the harmonisation of references to “Generation Unit” in the EirGrid Grid Code and “Generating Unit” in the SONI Grid Code.]

Defined Term	Definition
Accepted	<p>[In relation to data, that data which the Market Operator is required to use under Section 3 of the TSC either because (i) it is the most recently received Validated Data Transaction or (ii) the Market Operator is required to use Default Data in accordance with Section 3 of the TSC.]</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 TSC and is being considered further.]</i></p>
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	<p>The maximum Ramp Up Rate or Ramp Down Rate as appropriate for an Interconnector determined as the lesser of the maximum Ramp Rate which can be accommodated by the Interconnector itself or the maximum Ramp Rate associated with that Interconnector which can be accommodated by the Transmission System or Distribution System to which that Interconnector is connected. The Interconnector must operate at or within its Aggregate Interconnector Ramp Rate in all circumstances.</p> <p><i>[Note: Please note that this definition has been taken from the TSC and subsequent changes may require further consideration.]</i></p>
Aggregator	Either a Generator Aggregator or a Demand Side Unit Aggregator .
All-Island Demand	The sum of Demand in the Republic of Ireland and Demand in Northern Ireland.
Ancillary Services	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

Defined Term	Definition
	<p>Capability.</p> <p><i>[Note: Please note that references to “systems” are being considered further.]</i></p>
Availability Notice	A notice to be submitted under SDC1.4.1.1.
Availability Payments	<p>A payment made to a Generator for making a Generating Unit available.</p> <p><i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i></p>
Block Load	<p>The level of output that a Generating Unit immediately produces following Synchronisation. For avoidance of doubt, Block Load can equal 0 MW.</p> <p><i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i></p>
Block Load Cold	<p>Block Load during a Cold Start.</p> <p><i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i></p>
Block Load Hot	<p>Block Load during a Hot Start.</p> <p><i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i></p>
Block Load Warm	<p>Block Load during a Warm Start.</p> <p><i>[Note: Please note that this definition was introduced for the purposes of Part 1 of Appendix A to SDC1.]</i></p>
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 Modules will be operating at any given MW Dispatch level subject to any updated Availability information submitted by a Generator to a TSO under SDC1 .
Centrally Dispatched Generating Unit (CDGU)	A Generating Unit within a Generating Plant subject to Central Dispatch , which comprises, unless specified otherwise a Thermal Plant including a CCGT Installation , a Dispatchable WFPS , Hydro Unit and Pumped Storage Plant in respect of its Pumped Storage Generation .
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

Defined Term	Definition
	<p>[Accepted/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. Further consideration needs to be given as to how this will work after Gate Closure.]</i></p>
Commercial Offer Data	Data submitted to the MO pursuant to the TSC in relation to prices and, where applicable, nominated output for certain Users .
Common Sections	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 .
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 .
Constrained Group	A part of the System containing a group of Generating Units within a constrained part of the System as determined by the TSO .
Contracted Capacity	<p><i>In relation to a [PPA] CDGU or a [PPA] CCGT Installation, the NFL Capacity of the CDGU which is set out in [paragraph 2 of Schedule 1 to the Generating Unit Agreement for that CDGU], as that NFL Capacity may be amended from time to time in accordance with that [Generating Unit Agreement or the relevant Power Station Agreement.]</i></p> <p><i>[NB: Please note that this definition applies to the SONI Grid Code only.]</i></p>
Control Facility	<p>A location used for the purpose of monitoring, control and operation of the User's Plant and Apparatus</p> <p><i>[Note: Please note that this definition was modified from the definition in the EirGrid Grid Code.]</i></p>
Controllable WFPS	<p><i>A site containing at least one WTG which can automatically act upon a remote signal from the TSO to change its output.</i></p> <p><i>[Note: For the Republic of Ireland.]</i></p> <p><i>A WFPS which can automatically act upon a remote signal from the TSO to change its output.</i></p> <p><i>[Note: For Northern Ireland.]</i></p>
Cycle Operating Mode	The open cycle or combine cycle operating mode of a CCGT Installation which may need to be specified pursuant to a Dispatch Instruction under SDC2.4.2.4(k).

Defined Term	Definition
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/Registered Capacity] (Maximisation) nor less than its [Contracted Capacity/Registered Capacity] (which is Maximisation Capacity stated on the assumption that Availability is equal to [Contracted Capacity/Registered Capacity]) or if no figure is so declared, the [Contracted Capacity/Registered Capacity] (Maximisation) set out in [paragraph 2 of schedule 1 to the relevant <i>Generating Unit Agreement</i>].</p> <p><i>[Note: Please note that this definition is subject to further consideration.]</i></p> <p><i>[Note: Please note that the words in italic are in relation 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 Rate	<p>The rate at which a Generation Unit reduces MW Output from Minimum Generation to zero when it is instructed to cease output. There are up to two possible deloading 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 Customer	<p>A person to whom electrical Energy is provided by means of a direct connection to the Transmission System.</p> <p><i>[Autoproducers are to be considered both Generators and Demand Customers.]</i></p> <p><i>[Note: Please note that this definition was taken from the EirGrid Grid Code. Text in brackets may be removed. Under consideration]</i></p>
Demand Forecasts	<p>A forecast of Demand made pursuant to OC1.</p> <p><i>[Note: Please note that this definition was taken from the SONI Grid Code.]</i></p>
Demand Reduction	<p>The reduction in MW Demand which can be achieved by a Demand Side Unit for each Trading Period in the following Optimisation Time Horizon Period and which must be submitted to the TSO in an Availability Notice under SDC1.4.1.2.</p> <p><i>[Note: Please note that this definition may need to be amended following clarification by the Regulatory Authorities of the treatment</i></p>

Defined Term	Definition
	<i>of Demand Side Units.]</i>
Demand Side Units	A Demand Site on the Transmission System from which a Dispatchable Demand Customer can deliver a demand reduction upon receipt of a [Demand Reduction] Dispatch Instruction from the TSO .
Demand Side Unit Aggregator	A person who represents several Demand Side Units , 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 demand site owned by a Dispatchable Demand Customer which can deliver a Demand Reduction following a Dispatch Instruction from the TSO .
Dispatch Instruction	An instruction given by the TSO to a CDGU , Demand Side Unit , Interconnector Import Unit 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 and 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 Customer/User	A Demand Customer with a Demand Site which can be Dispatched by the TSO .
Dispatchable WFPS or DWFPS	A Controllable WFPS which must have a Control Facility in order to be dispatched via an Electronic Interface by the TSO .
Distribution System	In Ireland, 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>[Note: Please note that the definition above was modified from the definition in the EirGrid Grid Code.]</i> In Northern Ireland, means 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

Defined Term	Definition
	<p>distribution.</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 is being considered further.]</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.</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.</p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC1.]</i></p>
Electronic Interface	<p>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, as provided for in the Grid Code and established pursuant to an agreement between the TSO and a User.</p>
Emergency Instruction	<p><i>[A Dispatch Instruction issued by the TSO to a CDGU which may require an action or response which is outside the limits implied by the then current Availability Notice.]</i></p> <p><i>[Note: This definition is to be used in the EirGrid Grid Code only and requires further consideration]</i></p>
End Point of Start Up Period	<p>The time after which the rate of change of the Generating Unit Output is not dependent upon the initial warmth of the Generating Unit.</p> <p><i>[Note: Please note that this definition was taken from the definition for "End of Start-Up Period" in the EirGrid Grid Code.]</i></p>
Energy Limit	<p>The upper limit on the amount of energy that can be generated by Energy Limited Generating Unit within the Trading Day.</p> <p><i>[Note: Need to consider referring to a defined period of time.]</i></p> <p><i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was modified from the TSC and is being considered further.]</i></p>
Energy Limit Factor	<p>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</p>

Defined Term	Definition
	and the end of the Optimisation Time Horizon Period . <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was modified from the TSC and is being considered further.]</i>
Energy Limit Start	06:00 hours on the Trading Day ; <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was modified from the TSC and is being considered further and is being considered further.]</i>
Energy Limit Stop	06.00 hours on the day following the Trading Day ; <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was modified from the TSC and is being considered further.]</i>
Energy Limited Generating Unit	A Hydro Unit with a limit on the energy it can deliver in a specified time period. <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 and is being considered further.]</i>
External Interconnection	Apparatus for the transmission of electricity to or from the Total System into or out of a transmission or distribution system located outside both of Northern Ireland and the Republic of Ireland.
<i>Force Majeure</i>	<i>Has the meaning ascribed to that term in the relevant [Generating Unit Agreement and System Support Services Agreement].</i> <i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i> <i>[Note: Further consideration is being given to the definition which should apply to the EirGrid Grid Code]</i>
Forecast Minimum Output Profile	The Forecast Minimum Output Profile must contain the Participant's forecast of the average level of Minimum Output , in MW, for the Generator Unit 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 Participant's forecast of the average level of Minimum Generation , in MW, for the Generator Unit for each Trading Period in the Optimisation Time Horizon .

Defined Term	Definition
	<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 and is being considered further.]</i></p>
<p>Full Load</p>	<p>[Maximum electrical output of a Generating Unit or CCGT Installation measured at the Generator Terminals or, in the case of a Wind Farm Power Station, the maximum electrical output of the Wind Farm Power Station <i>[at the power factor stated in the relevant Connection Agreement]</i> measured at the Connection Point of the Wind Farm Power Station [and depending, in the case of a Generating Unit which is capable of firing on two different Designated Fuels, on which Designated Fuel is being used to operate the Generating Unit] but excluding Maximum Generation.]</p> <p><i>[Note: Please note that the use of this definition, which was taken from the SONI Grid Code, is being considered further.]</i></p>
<p>Gate Closure</p>	<p>10.00 hours on the day preceding the relevant Trading Day to which a notice relates.</p> <p><i>[Note: Please note that this definition was taken and modified from the TSC.]</i></p>
<p>Generating Plant</p>	<p>[A Power Station subject to Central Despatch.]</p> <p><i>[Note: Please note that this definition is being considered further.]</i></p>
<p>Generating Unit Agreement</p>	<p><i>[An agreement between a Generator and NIE pursuant to which amongst other matters, NIE agrees to purchase from the Generator electricity generated by a CDGU <i>[or CCGT Installation]</i>, as the case may be, of the Generator.]</i></p> <p><i>[Note: Please note that this definition applies to the SONI Grid Code only and is being considered further.]</i></p>
<p>Generation Other Relevant Data</p>	<p>The data referred to in SDC1.4.4.4.</p>
<p>Generator Aggregator</p>	<p>A person who represents several Generating Units, by in particular preparing notices under SDC1 on behalf of these Generating Units and receiving Dispatch Instructions on behalf of these Generating Units under SDC2.</p>
<p>Generator Declared Inflexibilities</p>	<p>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.</p>

Defined Term	Definition
Generator Terminal	The stator terminals of a Generating Unit . <i>[Note: Please note that this definition was taken from the SONI Grid Code.]</i>
Hot Cooling Boundary	The period of time, following de-Synchronisation of a Generating Unit after which the heat state transfers from being Hot to being Warm . <i>[Note: Please note that this definition, which was introduced for Part 1 of Appendix A to SDC 1, was taken from the TSC and is being considered further.]</i>
Hot Start	Any Synchronisation of a Generating Unit that has previously not been Synchronised for a period of time shorter than its [Accepted/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. Further consideration needs to be given as to how this will work after Gate Closure.]</i>
Hydro Unit	A Unit which generates electricity from the movement of water [excluding Pumped Storage]; <i>[Note: Please note that this definition is being considered further.]</i>
Indicative Operations Schedule	The schedule prepared pursuant to SDC1.4.5.1.
Interconnector	Electric lines and electric Plants used for conveying electricity or provision of Reserves from outside both jurisdictions directly to or from a substation or converter station in either jurisdiction.
Interconnector Import	The import of electricity through the Interconnector .
Interconnector Owner	[] <i>[Note: This definition is being considered further]</i>
Interconnector Users	Users importing or exporting electricity through the Interconnector .
Interconnector Unit	A Unit registered by an Interconnector User associated with the relevant Interconnector . <i>[Note: Please note that this definition is being considered further.]</i>
Inter-jurisdictional tie line	The tie line, facilities and equipment that connect the Transmission System of the Republic of Ireland to the Northern Ireland Electricity System .

Defined Term	Definition
	<p><i>[Note: Please note that this definition was modified from the definition in the EirGrid Grid Code.]</i></p>
Intermediary	<p>[The Participant appointed by a TSC Party or another Participant for the purposes of registration of some or all of that Party's or Participant's Units and participation in the SEM and as more particularly provided for in the TSC.]</p> <p><i>[Note: Please note that this definition was taken and modified from the TSC and that further consideration is being given to this definition.]</i></p>
Intertripping Scheme	<p>A method of tripping a circuit breaker on receipt of a signal initiated from protection at another location.</p>
Licence Standards	<p>In Northern Ireland, 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.</p> <p><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></p> <p><i>[Note: Please note that consideration is being given to an equivalent definition for the Republic of Ireland.]</i></p>
Load Up Break Point Cold	<p>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 Load Up Break Point Cold, the second Loading Rate Cold applies from the Load Up Break Point Cold to the end point of the Start Up period, which should be set equal to 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 Hot	<p>The break point which defines the shared MW boundary between the two Loading Rates Hot. The first Loading rate applies from Block Load to the Load Up Break Point Hot, the second Loading Rate Hot applies from the Load Up Break Point Hot to the end point of the Start Up period, which should be set equal to 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 two Loading Rates Warm. The first Loading rate applies from Block Load to the Load Up Break Point Warm, the second Loading Rate Hot applies from the Load Up Break Point Warm to the end point of</p>

Defined Term	Definition
	<p>the Start Up period, which should be set equal to 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 zero to Minimum Generation when it is instructed to Cold Start.</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 zero to Minimum Generation when it is instructed to Hot Start.</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 zero to Minimum Generation when it is instructed to Warm Start.</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>
Low Frequency Relay	<p>An electrical measuring relay intended to operate when its characteristic quantity (Frequency) reaches the relay settings by decrease in Frequency.</p> <p><i>[Note: Please note that this definition was taken from the SONI Grid Code.]</i></p>
Market Operator	As defined in the TSC.
Max Ramp Down Rate	<p>The maximum Ramp Down Rate of a Demand Side Unit.</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 TSC.]</i></p>
Max Ramp Up Rate	<p>The maximum Ramp Up Rate of a Demand Side Unit.</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 TSC.]</i></p>
Maximisation Capability	<p>The capability of the CDGU (expressed in MW) to generate electricity in excess of its [Contracted Capacity / Registered Capacity / Maximum Export Capacity] determined in accordance with <i>[schedule 2 to the relevant Generating Unit Agreement]</i>.</p> <p><i>[Note: Please note that the words in italic apply to the SONI Grid Code only.]</i></p>

Defined Term	Definition
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 SDC1.]</i>
Maximum Export Capacity	In relation to an Interconnector Unit , the maximum amount of electricity in MW that can be exported through that unit.
Maximum Import Capacity	In relation to an Interconnector Unit , the maximum amount of electricity in MW that can be imported through that unit.
Maximum Interconnector Unit Export Capacity	The upper limit of export an Interconnector Unit is declaring as part of its Technical Offer Data [or as modified by the TSO/IA/Owner]. <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 and is being considered further.]</i>
Maximum Interconnector Unit Import Capacity	The upper limit of import an Interconnector Unit is declaring as part of its Technical Offer Data [or as modified by the TSO/IA/Owner]. <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 and is being considered further.]</i>
Maximum Reservoir Capacity	[] <i>[Note: Please note that this defined term is being introduced for the purposes of Part 1 of Appendix A to SDC1 and that further consideration is being given as to how this term should be defined.]</i>
Merit Order	An order of CDGUs , Controllable WFPSs , Demand Side Units and/or Pumped Storage Plant Demand Price Sets compiled by the TSO in conjunction with the Other TSO pursuant to SDC 1.
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	[The minimum time that must elapse from the time of a Generating Unit Shutdown before it can be instructed to Start-Up .] <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> <i>[Note: Please note that the use of this term is being considered further as this term is only applicable to Demand Side Units under</i>

Defined Term	Definition
	<i>the TSC but is applicable to Generating Units in the EirGrid Grid Code. Further consideration is also being given to the interrelationship of this term with “Minimum off time” which is applicable to all Generating Units under the TSC.]</i>
Minimum off time	<p>[The minimum time that a Generating Unit must remain producing no Active Power commencing at the time when it first stops producing Active Power.]</p> <p>or</p> <p>[The minimum time that must elapse from the time of a Generating Unit Shutdown before it can be instructed to Start-up]</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 TSC.]</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 it is being considered whether to use the first definition which is taken from the TSC or the second definition which is the existing EirGrid definition for Minimum Down Time.]</i></p>
Minimum on time	<p>The minimum time that must elapse from the time a Generating Unit is instructed to Start Up before it can be instructed to shut down.</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 and is to be considered further.]</i></p>
Minimum Reservoir Capacity	<p>[]</p> <p><i>[Note: Please note that this defined term is being introduced for the purposes of Part 1 of Appendix A to SDC1 and that further consideration is being given as to how this term should be defined.]</i></p>
Minimum Generation	<p>The minimum Output which a Generating Unit can generate continuously, registered with the TSO under SDC1 as a [Technical Parameters].</p> <p><i>[Note: Please note that this definition was modified from the definition in the EirGrid and SONI Grid Codes.]</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	The system consisting (wholly or mainly) of high voltage electricity lines owned and/or operated by SONI for the purposes of the

Defined Term	Definition
	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.
<i>NI PPA CCGT</i>	<i>[Note: Please note that further consideration is being given to a definition for this term.]</i>
<i>NI PPA CDGU</i>	<p><i>In Northern Ireland, a CDGU which is subject to a Generating Unit Agreement as at the Transfer Date to the extent it continues to be so subject, which agreement being made between [NIE Energy] on the one hand and Kilroot Power Limited, Premier Power Limited or Coolkeeragh Power Limited on the other.</i></p> <p><i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i></p>
<i>NI PPA Generation</i>	<p><i>[A Generator which is subject to a Generating Unit Agreement as at the Transfer Date to the extent it continues to be so subject, which agreement being made between [NIE Energy] on the one hand and Kilroot Power Limited, Premier Power Limited or Coolkeeragh Power Limited on the other.]</i></p> <p><i>[Note: This definition applies only to the SONI Grid Code.]</i></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-CD Plant	<p>[A Power Station not subject to Central Dispatch. / A Generating Unit not normally set to Generating Dispatch.]</p> <p><i>[Note: Please note that the interrelationship with the term “Non-Centrally Dispatched Generating Unit” in the EirGrid Grid Code is currently being considered.]</i></p>
Operating Mode	<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 and that the wording is being considered further.]</i></p>
Optimisation Time Horizon Period	<p>The thirty hour period starting at 06:00 hours on the Trading Day.</p> <p><i>[Note: Please note that this definition was taken from the TSC.]</i></p>
Other Grid Code	The Grid Code governing the Other Transmission System .

Defined Term	Definition
Other TSO	The Transmission System Operator of the Other Transmission System .
Other Transmission System	<p>In the SONI Grid Code: <i>The transmission system operated by EirGrid in the Republic of Ireland.</i></p> <p>In the EirGrid Grid Code: <i>The transmission system operated by SONI in Northern Ireland.</i></p> <p><i>[Note: Please note that the term “Other Transmission System” will be defined differently in the SONI and EirGrid Grid Codes.]</i></p>
Output	<p>[The actual Active Power output at the main Generator Terminals of a CDGU (in MW) or, as the case may be, the actual output at the Connection Point of a [Controllable] WFPS (in MW), derived from data measured pursuant to the Metering Code.]</p> <p><i>[Note: Please note that further consideration is being given to the wording of this definition.]</i></p>
[Participant]	<p>[A Party or business division of a Party which at the relevant time has been designated as, or deemed to be, the Participant in relation to any Units which have been registered in accordance with the Trading and Settlement Code.]</p> <p><i>[Note: Please note that this definition was taken from the TSC and is being considered further]</i></p>
Planned Outage	<p><i>An Outage which has been planned in advance of the year in which it is to be taken under [OC2] (and which does not therefore include any overrun of the Outage), which may be either a Flexible Planned Outage or an Inflexible Planned Outage.</i></p> <p><i>[Note: Please note that this definition applies to the SONI Grid Code only and is being considered further.]</i></p>
Power Station Agreement	<p><i>[In Northern Ireland,] an agreement so entitled between a Generator and [NIE Energy] relating to a Power Station of the Generator as a whole.</i></p> <p><i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i></p>
Power Station Equipment	<p><i>[Items of Plant in a Power Station which are integral to the operation of a CDGU [and/or CCGT Installation] and/or [Controllable] WFPS, but which are not used exclusively in the operation of such CDGU [and/or CCGT Installation] and/or [Controllable] WFPS, the Outage of which will, or is likely to (when, for example, taken together with other Power Station Equipment Outages), reduce the level of Availability of a CDGU [and/or CCGT Installation] and/or</i></p>

Defined Term	Definition
	<p><i>[Controllable] WFPS.]</i></p> <p><i>[Note: Please note that this definition applies to the SONI Grid Code only and is being further considered.]</i></p>
Price Quantity Pairs	<p>Prices and their respective quantities for Generating Units as part of Commercial Offer Data.</p> <p><i>[Note: Please note that this definition was modified from the definition in the TSC.]</i></p>
Price Maker Generating Unit	<p>[A Generating Unit that is Dispatchable and may be a Variable Price Maker or a Predictable Price Maker Generating Unit.]</p> <p><i>[Note: Please note that this definition was taken from the TSC but is being considered further.]</i></p>
Price Sets	<p>The Price Quantity Pairs, Start-up Costs and No Load Costs submitted by a User under SDC1.</p>
Primary Frequency Control	<p>[Primary Frequency Control takes place in the period of up to 30 seconds after a change in Frequency and is achieved by automatic corrective responses to Frequency deviations occurring on the Transmission System. This automatic correction arises from:</p> <p>(a) natural frequency demand relief of motor load;</p> <p>(b) automatic MW output adjustment of Generating Units initiated by Governor Droop or other responses including peaking of Combustion Turbine Units, condensate stop or frequency triggered response of pumped storage units;</p> <p>(c) automatic load shedding.]</p> <p><i>[Note: Please note that this definition was taken from the EirGrid Grid Code and is being considered further.]</i></p>
Priority Dispatch	<p>The Dispatch given priority as afforded under governing legislation in either jurisdiction.</p>
Pumped Storage Plant Demand	<p>[The Demand taken by a Pumped Storage Plant.]</p> <p><i>[Note: Please note that further consideration is being given to this definition.]</i></p>
Pumped Storage Generator	<p>A Generator which owns and/or operates any Pumped Storage Plant.</p> <p><i>[Note: Please note that this definition was taken from the EirGrid Grid Code.]</i></p>

Defined Term	Definition
Pumped Storage Plant	<p>A Generation Plant that produces Active Energy using water from an upper reservoir and takes energy by pumping water up to the same reservoir.</p> <p><i>[Note: Please note that this definition was taken from the EirGrid Grid Code.]</i></p>
Pumping capacity	<p>[]</p> <p><i>[Note: Please note that a definition for this term is currently being considered.]</i></p>
Unit Load	<p>[]</p> <p><i>[Note: Further consideration is being given to this definition.]</i></p>
Ramp Down Break Point	<p><i>[Note: Please note that this defined term was introduced for Part 1 of Appendix A to SDC 1 and that its definition is being considered further.]</i></p>
Ramp Down Rate	<p>The rate of decrease in a Generating Unit's Output after the End Of Start-up Period. The Ramp-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 of the plant but may depend on the MW Output.</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 and is being considered further.]</i></p>
Ramp Up Break Point	<p>[]</p> <p><i>[Note: Please note that this defined term was introduced for Part 1 of Appendix A to SDC 1 and that its definition is being considered further.]</i></p>
Ramp Up Rate	<p>The 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. Following the End Of Start-up Period, the rate of increase is not dependent upon the initial warmth of the plant but may depend on the MW Output.</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 and is being considered further.]</i></p>
Reserve Characteristics	<p>The MW level of reserve available at any given MW Output of a CDGU as set out in the [Sustained Load Diagram in Northern Ireland / [available Ancillary Service] in the Republic of Ireland].</p>

Defined Term	Definition
	<i>[Note: Please note that this definition was modified from the definition in the SONI Grid Code and is being further considered.]</i>
Scheduled Synchronising	[The Scheduling of a Generating Unit which is Synchronised]
Scheduling and Dispatch Code (SDC)	The parts of the Grid Code which specify the Scheduling and Dispatch process.
Short Term Maximisation Capability	The capability of a Generating Unit to deliver, for a limited duration of time, MW Output greater than its [Contracted Capacity / Registered Capacity / Maximum Export Capacity]. <i>[Note: Please note that this definition was taken from the EirGrid Grid Code.]</i>
Short term Planned Maintenance Outage STPM Outage	<i>An Outage designated as an STPM Outage in or accordance with [OC2.6.3(e)] (the duration of which shall not, unless the TSO in its absolute discretion agrees, exceed 72 hours) but not including any overrun of such Outage.</i> <i>[Note: Please note that the definition applies to the SONI Grid Code only.]</i>
Single Electricity Market (SEM)	The wholesale all-island single electricity market established and governed pursuant to the relevant legislation and the TSC . <i>[Note: Please note that this definition was taken from the TSC.]</i>
Soak Time Cold	[The duration for which the Generating Unit must remain at the Soak Time Trigger Point Cold during a Cold Start .] <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 and is to be considered further.]</i>
Soak Time Hot	The duration for which the Generating Unit must remain at the Soak Time Trigger Point Hot during a Hot Start . <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 and is to be considered further.]</i>
Soak Time Trigger Point Cold	A constant MW level at which a Generating Unit must remain while loading up between zero MW and Minimum Generation after a Cold Start . <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 and is to be considered further.]</i>
Soak Time Trigger Point	A constant MW level at which a Generating Unit must remain while

Defined Term	Definition
Hot	loading up between zero MW and Minimum Generation after a Hot Start . <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 and is to be considered further.]</i>
Soak Time Trigger Point Warm	A constant MW level at which a Generating Unit must remain while loading up between zero MW and Minimum Generation after a Warm Start . <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 and is to be considered further.]</i>
Soak Time Warm	The duration for which the Generating Unit must remain at that Soak Time Trigger Point Warm during a Warm Start . <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 and is to be considered further.]</i>
Special Action	Those actions referred to in SDC2.4.3.
Spinning Reserve Capability	<i>The ability of a CDGU to provide Spinning Reserve.</i> <i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i>
Standing Technical Offer Data	[Technical offer data provided on registration, and updated, by a User of each of its Units in accordance with the TSC.] <i>[Note: Please note that further consideration is being given to the definition of this term.]</i>
[Start-up Price]	The costs associated with Start-Ups . <i>[Note: Please note that this definition was taken from the TSC and is being considered further.]</i>
<i>Sustained Load Diagram</i>	<i>In Northern Ireland, a schedule setting out the Sustained Response Capability of a CDGU or CCGT Installation annexed to schedule 8 of the Generating Unit Agreement for that CDGU or CCGT Installation and submitted to the TSO pursuant to the Planning Code.</i> <i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i>
Sustained Response Capability	<i>In Northern Ireland, has the meaning set out in [OC11.5.5.]</i> <i>[Note: Please note that this definition applies only to the SONI Grid</i>

Defined Term	Definition
	<i>Code.]</i>
Synchronous Start-Up Time Hot	<i>[Note: Please note that this defined term was introduced for Part 1 of Appendix A to SDC 1 and that its definition is being considered further.]</i>
Synchronous Start-Up Time Warm	<i>[Note: Please note that this defined term was introduced for Part 1 of Appendix A to SDC 1 and that its definition is being considered further.]</i>
Synchronous Start-Up Time Warm	<i>[Note: Please note that this defined term was introduced for Part 1 of Appendix A to SDC 1 and that its definition is being considered further.]</i>
[System Support Agreement]	<p><i>[In the ROI only, a bilateral agreement between the TSO and a User for services which are required for System reasons and which exclude those which must be provided by Users in accordance with the Connection Conditions.]</i></p> <p><i>[Note: Please note that the above definition applies to the Republic of Ireland only.]</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 beginning of the Trading Day.</p> <p><i>[Note: Please note that this definition was taken from the TSC.]</i></p>
Temperature Correction Factor	<p><i>In Northern Ireland, the figure derived from [Schedule 2 to the relevant Generating Unit Agreement].</i></p> <p><i>[Note: Please note that this definition applies to the SONI Grid Code only.]</i></p>
[Technical Parameters]	<p><i>[In Northern Ireland, those parameters listed in Appendix A to SDC1 relating to CDGUs and/or CCGT Installations.]</i></p> <p><i>[In the Republic of Ireland, the technical capabilities, flexibilities and limitations for the operation of a Generation Unit as registered or declared in accordance with the provisions of the Grid Code..]</i></p> <p><i>[Note: Please note that the definitions above were taken respectively from the SONI and EirGrid Grid Codes and that further consideration is being given to these definitions.]</i></p>
[Technical Parameters] Notice	A notification as submitted under SDC1.4.4.1.
[Thermal Plant]	<i>[Note: Please note that further consideration is being given to the definition of this term.]</i>

Defined Term	Definition
Total System	[Together, the Transmission System, Distribution System, and all User Systems in [Northern Ireland and the Republic of Ireland].] <i>[Note: Please note that the wording of the above definition is being considered further.]</i>
Trading and Settlement Code (TSC)	A code of that name put in place by the Market Operator .
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.
Trading Period	A thirty minute period beginning on each hour or half hour.
Transmission System	[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 a TSO or [TAO/TO] in connection with the transmission of electricity.] <i>[Note: Please note that the wording of the above definition is being considered further.]</i>
Transmission System Operator (TSO)	[The holder of the Licence granted either pursuant to Section 14 of the Electricity Regulation Act 1999 or Article 10(1)(b) of the Electricity (Northern Ireland) Order 1992 to operate a Transmission System .]
TSO's Control Centre	A location used by a TSO for the purpose of control and operation of a [Transmission System].
TSO Licence	[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.]
Unavailable	[In relation to a CDGU means that the Availability of the CDGU is 0 MW. The term " Unavailability " shall be construed accordingly.] <i>[Note: Please note that the definition was modified from the definition in the SONI Grid Code and is being considered further.]</i>
Unconstrained Indicative Market Schedule	<i>[Note: Please note that further consideration is being given to the definition of this term.]</i>

Defined Term	Definition
Under Flag Test	<p>The flag indicating the under test status accorded to certain Generating Units by the relevant 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 relevant TSO and that the relevant Unit is so permitted as set out in paragraph 5.133A of the TSC.</p> <p><i>[Note: Please note that this definition was taken from the TSC's definition for "Under Test".]</i></p>
Under Test End Date	<p>[The date on which the Under Test status accorded to certain Generating Units ends.]</p> <p><i>[Note: Please note that the definition of this term is to be considered further.]</i></p>
Under Test Start Date	<p>[The date on which the Under Test status accorded to certain Generating Unit starts.]</p> <p><i>[Note: Please note that the definition of this term is to be considered further.]</i></p>
Voltage Control	<p>The retention of the System Voltage within acceptable limits.</p> <p><i>[Note: Please note that this definition was modified from the definition in the EirGrid Grid Code and is to be further considered.]</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 to Cold.</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>
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 [Accepted/submitted] Hot Cooling Boundary but shorter than its [Accepted] 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. Further consideration needs to be given as to how this will work after Gate Closure.]</i></p>

Defined Term	Definition
Warmth	<p>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) <i>in the Generating Unit Agreement relating to that CDGU.</i></p> <p><i>[Note: Please note that this definition was taken from the SONI Grid Code and is being further considered.]</i></p> <p><i>[Note: Please note that the words in italic apply to the SONI Grid Code only.]</i></p>
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, is taken from the TSC and is to be considered further.]</i></p>