

Single Electricity Market

Draft Transmission Loss Adjustment Factors

Consultation Paper

27 October 2009

SEM-09-102

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I INTRODUCTION

In June 2005 the Commission for Energy Regulation (“CER”) and the Northern Ireland Authority for Utility Regulation (“NIAUR”), collectively known as the Regulatory Authorities, published a decision paper entitled “SEM High-Level Design Decision Paper¹. This paper outlined the design of the Single Electricity Market (the “SEM”) for the island of Ireland, and included a decision requiring that transmission losses in the SEM be accounted for on an all-island basis, using a consistent methodology involving the application of locational Transmission Loss Adjustment Factors (TLAFs) to the outputs of generators.

Following the publication of this paper, the Regulatory Authorities had extensive discussions on the issue with EirGrid and the System Operator for Northern Ireland (SONI), the transmission system operators in Ireland (“RoI”) and Northern Ireland respectively. This led to a Regulatory Authority consultation and then a decision paper in August 2006² on the treatment of and methodology for all-island harmonised transmission losses. The treatment/methodology decided upon is outlined in section II.1 below.

Following this the System Operators submitted all-island TLAFs to the Regulatory Authorities, applying the decided policy for their treatment, for subsequent consultation and decision by the Regulatory Authorities. All-island TLAFs have accordingly been operational since the Go Live of the SEM, 1 November 2007, and the current approved TLAFs apply to 31 December 2009³.

In accordance with the SEM Trading & Settlement Code, EirGrid and SONI have recently submitted to the Regulatory Authorities a set of draft TLAFs for each generator within its jurisdiction, to apply from 1 January 2010. It is anticipated that these TLAFs will apply until end September 2010 at the latest (see below). These were calculated jointly by the System Operators in accordance with the approved methodology referred to above. They are now included in this paper for public consultation.

For information, it should be noted that the Regulatory Authorities and System Operators are currently reviewing the locational signals in SEM through their

¹ “The Single Electricity Market (SEM) High Level Design Decision Paper”, 10 June 2005, AIP-SEM-42-05.

² “The Single Electricity Market: Treatment of Transmission Losses. Decision Paper”, 31 August 2006, AIP-SEM-112-06.

³ “Transmission Loss Adjustment Factors for 2009”, SEM-08-173, 26 November 2008

“Locational Signals Project”, which includes a review of the TLAF and Generator Transmission Use of System (GTUoS) methodologies. The next public consultation under this workstream, which is scheduled to be published in November 2009, will propose the System Operators’ preferred methodologies for future all-island TLAFs (and GTUoS). A final Regulatory Authority decision is expected by February 2010. Pursuant to the current plans of this workstream, any new TLAF methodology decided upon is expected to Go Live from 1 October 2010.

Furthermore, the Regulatory Authorities are aware that the Trading and Settlement Modifications Committee meeting of 29 September 2009 recommended for approval a Modification (Mod_24_09) which changes the period on which the TLAFs are calculated, from a calendar year to a tariff year basis. The Modification Committee’s Final Recommendation Report will be sent to the Regulatory Authorities for decision in due course.

Therefore, on account of these developments a new TLAF methodology is expected to Go Live from 1 October 2010. In addition, as referred to in section II.3, if considered appropriate by the Regulatory Authorities it *may* be possible to introduce a new TLAF methodology earlier than October 2010.

II.1 Methodology

Draft TLAFs from 1 January 2010 have been received from EirGrid and from SONI, together with statements that these have been calculated in accordance with the current all-island methodology (AIP-SEM-112-06) approved by the Regulatory Authorities. The draft 2010 TLAFs are shown in Appendices A & B to this paper.

This approved methodology is based on the methodology previously used by EirGrid for the Rol system prior to the introduction of the SEM, albeit calculated on an all-island basis and calculated monthly rather than seasonally. TLAF values are derived by modelling the increase or decrease in transmission system losses that arise as a consequence of an increase or decrease in the output of each generator against a background of generation and demand that is representative of the month and day/night condition to which TLAFs are to be applied. The TLAFs for each particular month and day/night condition are then shifted uniformly, in order to recover in aggregate the overall transmission losses that are estimated to occur for that condition, whilst retaining differentials between TLAFs that reflect the differential losses incurred for an increment or decrement of generation at each location.

Appendix D provides detailed information on the generation and demand scenarios used in the derivation of the TLAFs, in order to provide

transparency to market participants. At a high level, the System Operators have stated that since the derivation of the 2009 TLAFs the scenarios used have been amended, as is standard practice annually, in light of expected system conditions, with notable changes being:

- i. New conventional generators on the island as follows:
 - New ESB PG plant connecting near Cork city is assumed to be commercially available for all of 2010.
 - New Bord Gáis plant also connecting near Cork city is assumed to become commercially available from July 2010. For the period March – June it is assumed to be testing and dispatched at approx 100MW.
- ii. Total renewable generation on the island comes to approx 2000 MW by end of 2010;
- iii. A flat wind flat profile of 31% (ROI) & 33% (NI) is assumed, however in some periods these levels are not maintained as Plexos (which is used to derive the dispatch) curtails the wind; and,
- iv. Substantial reduction in 2010 forecast demand compared to 2009 forecast demand.

In accordance with the decision of the Regulatory Authorities, random forced outages of generators are not modelled. During the development of the approach to deriving all-island TLAFs it was concluded that to do so introduced a random element into the resulting TLAFs that was not desirable. However, the System Operators have pointed out that the maximum possible output of each generator in each scenario is determined by the Maximum Export Capacity scaled to reflect average availability. Without such an adjustment, the output of marginal plant in each scenario would be unrealistically low, and would result in TLAFs which would not be representative of actual system conditions.

II.2 Results

Appendices A & B to the paper show the draft TLAFs proposed from 1 January 2010 for the two jurisdictions. Please see section II.3 regarding their applicability period. Appendix C provides analysis of the changes from 2009 to 2010 including year-on-year percentage change in TLAFs. In accordance with the Regulatory Authorities' decision last year to pursue greater transparency, the generation and demand scenarios are shown in Appendix D.

The following is a summary of the information in the Appendices:

- Appendix A - Draft NI 2010 TLAFs;

- Appendix B - Draft Rol 2010 TLAFs;
- Appendix C - Analysis of 2010 TLAFs; and,
- Appendix D - Generation and Demand Scenarios.

Please note that the spreadsheets published separately with this paper provide Appendices A, B and D, for ease of reading.

Information on the transmission network is given in the respective Transmission Forecast Statements of the two System Operators^{4,5}.

Notable features of the 2010 TLAFs are:

- (1) TLAFs remain more tightly grouped in Northern Ireland, compared to Ireland, reflecting the more tightly coupled nature of the system in Northern Ireland;
- (2) Values in Rol are widely spread, with both the highest and lowest values occurring in that jurisdiction.
- (3) Compared to 2009, higher TLAFs in Ireland tend to decrease and lower TLAFs in Northern Ireland tend to increase. This is due principally to the connection of new conventional generation in the Cork region, from which there is a dominant flow, with consequential reductions in other generation and in Moyle imports; and,
- (4) TLAFs for generation in the Donegal area have decreased as new generation is added north of Cathleen's Falls.

II.3 Relation to the Locational Signals Project

For reasons explained in section II.2 above, it can be seen that the all-island TLAFs proposed from 1 January show considerable changes for market participants from those TLAFs currently in operation. This volatility reflects the losses that generators are expected to drive on the transmission system next year and the RAs are satisfied, subject to this consultation, that the proposed TLAFs, in accordance with the methodology already approved, are cost reflective among generators. However the RAs do recognise that this volatility in market participants' TLAFs is a growing feature of the TLAF methodology as more generators connect and that this volatility may well grow into the future as, for example, more dispersed and variable wind generation connects. This will arguably make it more difficult for generators to accurately

⁴ "Transmission Forecast Statement 2008-2014", EirGrid, October 2008.

⁵ "Transmission Seven Year Capacity Statement 2009-2015", SONI.

forecast their future TLAFs and their financial impact with a high degree of certainty.

This increased volatility is one of the key reasons that the RAs have asked EirGrid and SONI to review the existing all-island generator TLAF methodology as part of their “Locational Signals Project” (which was initially limited to developing an all-island approach to GTUoS tariffs). Accordingly EirGrid and SONI recently published for consultation⁶ options for developing a new all-island TUoS and TLAFs regime to provide for various objectives including ways to mitigate TLAF volatility. A further consultation paper proposing a particular option(s) is expected to be published in the near future. This is with a view to a final decision on the matter being made by the RAs in Q1 of 2010 and Go Live of the new TUoS and TLAF methodologies from October 2010. Furthermore, if considered appropriate, taking account of various policy objectives, it *may* be possible to introduce a new TLAF methodology earlier than October 2010. In this regard the Regulatory Authorities will examine with the System Operators the feasibility of implementation in advance of October 2010. This would of course not prejudice the final RA decision on a new TLAF methodology, to be made in Q1 in the context of the “Locational Signals Project” as mentioned above.

⁶ Methodology Options for Locational Signals - Associated with SEM-09-049

III VIEWS INVITED

The Regulatory Authorities invite views on the System Operators' draft TLAFs including:

1. The dispatch scenarios used to derive the values;
2. The subsequent draft TLAF values proposed; and,
3. The appropriateness of the early introduction in 2010 of the new methodology as discussed in section II.3.

Comments should be submitted by 17:00 on Tuesday 24th November 2009 to jlynch@cer.ie and sarah.friedel@niaur.gov.uk.

Following a review of comments received to this consultation the SEM Committee plans to publish approved TLAFs for 2010 early in December.

Appendix A.1 – Draft NI 2010 TLAFs by Node

APPENDIX A.1																									
DRAFT NORTHERN IRELAND TRANSMISSION LOSS ADJUSTMENT FACTORS 2010																									
Transmission Station	Bus Voltage kV	Month																							
		January		February		March		April		May		June		July		August		September		October		November		December	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Aghyoule	110	0.991	0.999	0.993	0.992	0.996	0.995	0.987	0.985	1.004	1.004	0.989	0.998	1.002	1.001	1.012	1.007	0.994	0.974	0.989	0.985	0.997	0.993	1.008	0.996
Antrim	110	0.989	1.012	0.990	1.006	0.995	1.011	0.998	1.006	1.002	1.014	0.998	1.011	1.012	1.016	1.022	1.017	1.023	1.011	1.013	1.021	1.013	1.025	1.019	1.028
Ballylumford	110	0.976	1.005	0.975	0.999	0.981	1.003	0.982	0.995	0.984	1.002	0.983	1.000	0.996	1.006	1.010	1.008	1.013	1.005	0.997	1.012	0.997	1.017	1.000	1.019
Ballylumford	275	0.982	1.007	0.983	1.002	0.989	1.006	0.991	1.001	0.994	1.009	0.991	1.006	1.005	1.011	1.017	1.013	1.019	1.008	1.006	1.017	1.005	1.020	1.011	1.022
Ballymena	110	0.994	1.016	0.995	1.010	1.001	1.015	1.003	1.009	1.006	1.017	1.002	1.014	1.016	1.019	1.027	1.020	1.028	1.014	1.018	1.025	1.018	1.028	1.025	1.032
Banbridge	110	1.006	1.020	1.006	1.015	1.009	1.017	1.009	1.014	1.014	1.020	1.011	1.018	1.024	1.023	1.031	1.023	1.030	1.019	1.026	1.028	1.027	1.032	1.032	1.035
Ballyvally	110	0.983	1.009	0.983	1.003	0.988	1.007	0.990	1.000	0.992	1.008	0.990	1.005	1.003	1.010	1.016	1.012	1.018	1.008	1.005	1.016	1.005	1.021	1.010	1.024
Ballynahinch	110	1.010	1.026	1.011	1.021	1.014	1.023	1.014	1.017	1.016	1.024	1.013	1.021	1.026	1.025	1.037	1.027	1.039	1.022	1.031	1.033	1.034	1.039	1.041	1.043
Carmoney	110	0.994	1.017	0.995	1.011	0.999	1.014	0.999	1.007	1.002	1.014	1.000	1.012	1.013	1.017	1.025	1.019	1.027	1.015	1.016	1.023	1.017	1.029	1.022	1.032
Castlereagh	110	1.001	1.019	1.002	1.014	1.006	1.017	1.007	1.012	1.010	1.019	1.007	1.017	1.020	1.021	1.031	1.022	1.032	1.017	1.023	1.027	1.025	1.032	1.032	1.036
Castlereagh	275	0.995	1.015	0.996	1.010	1.000	1.013	1.001	1.008	1.005	1.015	1.002	1.013	1.015	1.018	1.025	1.019	1.026	1.014	1.017	1.023	1.018	1.028	1.024	1.031
Belast Central	110	1.002	1.020	1.003	1.015	1.007	1.018	1.008	1.013	1.011	1.020	1.008	1.017	1.021	1.022	1.032	1.023	1.033	1.018	1.024	1.028	1.026	1.033	1.033	1.036
Belfast North Main	110																	1.033	1.018	1.023	1.028	1.024	1.033	1.031	1.036
Coleraine	110	0.993	1.014	0.996	1.007	0.998	1.009	0.994	1.001	1.012	1.021	0.994	1.010	1.010	1.018	1.019	1.016	1.019	1.005	1.012	1.020	1.017	1.026	1.028	1.029
Coolkeeragh	110	0.971	1.002	0.974	0.994	0.976	0.996	0.976	0.990	1.001	1.015	0.976	1.000	0.996	1.011	1.001	1.005	0.999	0.993	0.991	1.010	0.993	1.012	1.003	1.014
Coolkeeragh	275	0.974	1.003	0.976	0.996	0.979	0.998	0.979	0.993	1.000	1.015	0.979	1.002	0.998	1.012	1.004	1.007	1.003	0.996	0.994	1.012	0.996	1.014	1.005	1.016
Creagh	110	0.993	1.014	0.994	1.008	0.999	1.013	1.000	1.007	1.006	1.016	1.001	1.013	1.015	1.018	1.025	1.019	1.024	1.011	1.015	1.022	1.015	1.026	1.022	1.029
Cregagh	110	1.002	1.020	1.003	1.015	1.007	1.018	1.007	1.013	1.010	1.019	1.008	1.017	1.021	1.021	1.031	1.023	1.032	1.018	1.024	1.028	1.026	1.033	1.032	1.036
Donegal	110	0.998	1.018	0.999	1.012	1.004	1.016	1.004	1.011	1.007	1.017	1.005	1.015	1.018	1.020	1.029	1.021	1.031	1.017	1.021	1.026	1.022	1.031	1.028	1.034
Drumnakelly	110	1.002	1.018	1.003	1.013	1.005	1.015	1.006	1.011	1.011	1.018	1.008	1.016	1.021	1.021	1.028	1.021	1.027	1.016	1.022	1.025	1.023	1.029	1.029	1.032
Dungannon	110	0.995	1.014	0.996	1.008	1.001	1.011	1.000	1.006	1.009	1.017	1.001	1.012	1.015	1.018	1.024	1.018	1.020	1.008	1.013	1.018	1.015	1.023	1.022	1.026
Eden	110	0.987	1.012	0.987	1.006	0.993	1.010	0.993	1.002	0.994	1.009	0.993	1.007	1.006	1.012	1.019	1.015	1.022	1.011	1.008	1.019	1.010	1.025	1.014	1.027
Enniskillen	110	0.995	1.006	0.997	1.000	1.000	1.002	0.992	0.992	1.009	1.011	0.994	1.004	1.008	1.008	1.017	1.012	0.999	0.981	0.994	0.992	1.001	1.000	1.012	1.003
Finaghy	110	0.998	1.017	0.998	1.012	1.003	1.015	1.004	1.010	1.006	1.017	1.004	1.015	1.017	1.019	1.028	1.021	1.030	1.016	1.020	1.026	1.021	1.030	1.027	1.033
Glengormley	110	0.992	1.015	0.993	1.009	0.998	1.013	1.001	1.008	1.005	1.017	1.001	1.013	1.015	1.018	1.025	1.019	1.026	1.013	1.016	1.023	1.016	1.027	1.023	1.030
Hannahstown	110	0.997	1.017	0.998	1.011	1.002	1.015	1.003	1.010	1.006	1.017	1.004	1.014	1.017	1.019	1.028	1.020	1.029	1.016	1.019	1.025	1.021	1.030	1.027	1.033
Hannahstown	275	0.993	1.014	0.994	1.008	0.998	1.012	0.999	1.007	1.003	1.014	1.000	1.012	1.013	1.016	1.024	1.018	1.025	1.013	1.015	1.022	1.016	1.026	1.022	1.029
Kells	110	0.986	1.011	0.988	1.005	0.993	1.009	0.996	1.004	1.000	1.013	0.996	1.010	1.010	1.015	1.020	1.015	1.021	1.010	1.011	1.020	1.010	1.023	1.017	1.026
Kells	275	0.986	1.010	0.987	1.004	0.992	1.008	0.994	1.003	0.999	1.012	0.995	1.009	1.009	1.014	1.019	1.014	1.019	1.009	1.009	1.019	1.009	1.022	1.015	1.025
Kilroot	275	0.986	1.010	0.987	1.004	0.991	1.008	0.995	1.004	0.999	1.012	0.996	1.009	1.010	1.015	1.019	1.015	1.019	1.009	1.010	1.019	1.010	1.023	1.016	1.026
Knock	110	1.003	1.021	1.004	1.015	1.007	1.018	1.008	1.013	1.011	1.020	1.008	1.018	1.021	1.022	1.032	1.023	1.033	1.018	1.024	1.028	1.026	1.033	1.033	1.037
Larne	110	0.984	1.010	0.984	1.003	0.989	1.008	0.990	1.001	0.993	1.008	0.991	1.006	1.004	1.011	1.016	1.013	1.019	1.009	1.006	1.017	1.006	1.022	1.011	1.024
Limavady	110	0.987	1.010	0.990	1.003	0.992	1.005	0.989	0.997	1.009	1.019	0.988	1.007	1.006	1.015	1.013	1.013	1.013	1.001	1.006	1.016	1.011	1.021	1.022	1.024
Lisburn	110	1.003	1.020	1.003	1.015	1.007	1.018	1.007	1.012	1.010	1.019	1.008	1.017	1.021	1.022	1.031	1.023	1.032	1.018	1.024	1.028	1.025	1.033	1.032	1.036
Lisaghmore	110	0.972	1.003	0.975	0.995	0.979	0.998	0.978	0.992	1.003	1.017	0.978	1.002	0.998	1.013	1.003	1.007	1.001	0.995	0.993	1.011	0.994	1.013	1.004	1.014
Loggestown	110	0.995	1.016	0.998	1.009	1.000	1.011	0.996	1.002	1.014	1.022	0.995	1.011	1.012	1.019	1.020	1.017	1.021	1.006	1.014	1.021	1.019	1.027	1.030	1.030
Magherafelt	275	0.985	1.009	0.986	1.003	0.990	1.006	0.992	1.002	1.000	1.013	0.993	1.008	1.007	1.014	1.017	1.013	1.016	1.007	1.007	1.018	1.007	1.021	1.014	1.024
Moyle (Auchencrosh)	275	0.964	0.989	0.965	0.984	0.971	0.988	0.973	0.983	0.976	0.991	0.973	0.988	0.987	0.993	0.999	0.995	1.001	0.990	0.988	0.999	0.987	1.002	0.993	1.005
Newtownards	110	1.009	1.025	1.010	1.020	1.012	1.022	1.012	1.017	1.015	1.023	1.012	1.021	1.025	1.025	1.036	1.026	1.038	1.021	1.029	1.032	1.033	1.038	1.040	1.042
Newry	110	1.016	1.028	1.017	1.023	1.018	1.024	1.018	1.020	1.022	1.026	1.019	1.023	1.031	1.029	1.039	1.029	1.039	1.025	1.035	1.034	1.038	1.040	1.044	1.043
Omagh	110	0.987	1.004	0.989	0.998	0.992	1.000	0.988	0.993	1.004	1.011	0.989	1.003	1.004	1.009	1.013	1.010	0.995	0.982	0.989	0.993	0.993	0.999	1.002	1.002
Rathgael	110	1.014	1.028	1.015	1.023	1.017	1.025	1.016	1.019	1.018	1.025	1.015	1.023	1.028	1.027	1.039	1.028	1.041	1.024	1.033	1.034	1.038	1.041	1.045	1.045
Rosebank	110	1.002	1.020	1.003	1.014	1.006	1.017	1.007	1.012	1.010	1.019	1.007	1.017	1.020	1.021	1.031	1.022	1.032	1.018	1.023	1.027	1.025	1.032	1.032	1.036
Slieve Kirk	110					0.978	0.996	0.977	0.990	1.001	1.014	0.977	1.000	0.996	1.011	1.002	1.006	0.998	0.991	0.990	1.007	0.993	1.010	1.003	1.012
Slieve Kirk T-Off	110					0.979	0.997	0.977	0.990	1.001	1.014	0.978	1.001	0.997	1.011	1.003	1.006	0.998	0.992	0.991	1.007	0.993	1.010	1.003	1.012
Springtown	110	0.974	1.004	0.977	0.996	0.976	0.995	0.975	0.990	1.000	1.015	0.975	1.000	0.995	1.011	1.000	1.005	0.998	0.993	0.990	0.996	1.014	1.006	1.016	
Strabane	110	0.976																							

Appendix A.2 – Draft NI 2010 TLAFs by Market Participant

APPENDIX A.2																											
DRAFT NORTHERN IRELAND TRANSMISSION LOSS ADJUSTMENT FACTORS 2010																											
NI Transmission- Connected Generation Station	Unit Identifier		Connected at	Month																							
	SO	MO		January		February		March		April		May		June		July		August		September		October		November		December	
				Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Ballylumford	B4	GU_500100	Ballylumford 275 kV	0.982	1.007	0.983	1.002	0.989	1.006	0.991	1.001	0.994	1.009	0.991	1.006	1.005	1.011	1.017	1.013	1.019	1.008	1.006	1.017	1.005	1.020	1.011	1.022
Ballylumford	B5	GU_500281	Ballylumford 275 kV	0.982	1.007	0.983	1.002	0.989	1.006	0.991	1.001	0.994	1.009	0.991	1.006	1.005	1.011	1.017	1.013	1.019	1.008	1.006	1.017	1.005	1.020	1.011	1.022
Ballylumford	B6	GU_500280	Ballylumford 275 kV	0.982	1.007	0.983	1.002	0.989	1.006	0.991	1.001	0.994	1.009	0.991	1.006	1.005	1.011	1.017	1.013	1.019	1.008	1.006	1.017	1.005	1.020	1.011	1.022
Ballylumford	BGT1	GU_500150	Ballylumford 110 kV	0.976	1.005	0.975	0.999	0.981	1.003	0.982	0.995	0.984	1.002	0.983	1.000	0.996	1.006	1.010	1.008	1.013	1.005	0.997	1.012	0.997	1.017	1.000	1.019
Ballylumford	BGT2	GU_500160	Ballylumford 110 kV	0.976	1.005	0.975	0.999	0.981	1.003	0.982	0.995	0.984	1.002	0.983	1.000	0.996	1.006	1.010	1.008	1.013	1.005	0.997	1.012	0.997	1.017	1.000	1.019
Ballylumford	B10	GU_500140	Ballylumford 110 kV	0.976	1.005	0.975	0.999	0.981	1.003	0.982	0.995	0.984	1.002	0.983	1.000	0.996	1.006	1.010	1.008	1.013	1.005	0.997	1.012	0.997	1.017	1.000	1.019
Ballylumford	B31	GU_500130	Ballylumford 275 kV	0.982	1.007	0.983	1.002	0.989	1.006	0.991	1.001	0.994	1.009	0.991	1.006	1.005	1.011	1.017	1.013	1.019	1.008	1.006	1.017	1.005	1.020	1.011	1.022
Ballylumford	B32	GU_500131	Ballylumford 275 kV	0.982	1.007	0.983	1.002	0.989	1.006	0.991	1.001	0.994	1.009	0.991	1.006	1.005	1.011	1.017	1.013	1.019	1.008	1.006	1.017	1.005	1.020	1.011	1.022
Coolkeeragh	C30	GU_500040	Coolkeeragh 275/110 kV	0.973	1.003	0.975	0.995	0.978	0.997	0.978	0.992	1.001	1.015	0.978	1.001	0.997	1.012	1.003	1.006	1.001	0.995	0.993	1.011	0.995	1.013	1.004	1.015
Coolkeeragh	CGT8	GU_500170	Coolkeeragh 110 kV	0.971	1.002	0.974	0.994	0.976	0.996	0.976	0.990	1.001	1.015	0.976	1.000	0.996	1.011	1.001	1.005	0.999	0.993	0.991	1.010	0.993	1.012	1.003	1.014
Kilroot	K1	GU_500060	Kilroot 275 kV	0.986	1.010	0.987	1.004	0.991	1.008	0.995	1.004	0.999	1.012	0.996	1.009	1.010	1.015	1.019	1.015	1.019	1.009	1.010	1.019	1.010	1.023	1.016	1.026
Kilroot	K2	GU_500070	Kilroot 275 kV	0.986	1.010	0.987	1.004	0.991	1.008	0.995	1.004	0.999	1.012	0.996	1.009	1.010	1.015	1.019	1.015	1.019	1.009	1.010	1.019	1.010	1.023	1.016	1.026
Kilroot	KGT1	GU_500080	Kilroot 275 kV	0.986	1.010	0.987	1.004	0.991	1.008	0.995	1.004	0.999	1.012	0.996	1.009	1.010	1.015	1.019	1.015	1.019	1.009	1.010	1.019	1.010	1.023	1.016	1.026
Kilroot	KGT2	GU_500090	Kilroot 275 kV	0.986	1.010	0.987	1.004	0.991	1.008	0.995	1.004	0.999	1.012	0.996	1.009	1.010	1.015	1.019	1.015	1.019	1.009	1.010	1.019	1.010	1.023	1.016	1.026
Kilroot	KGT3	GU_500820	Kilroot 275 kV	0.986	1.010	0.987	1.004	0.991	1.008	0.995	1.004	0.999	1.012	0.996	1.009	1.010	1.015	1.019	1.015	1.019	1.009	1.010	1.019	1.010	1.023	1.016	1.026
Kilroot	KGT4	GU_500821	Kilroot 275 kV	0.986	1.010	0.987	1.004	0.991	1.008	0.995	1.004	0.999	1.012	0.996	1.009	1.010	1.015	1.019	1.015	1.019	1.009	1.010	1.019	1.010	1.023	1.016	1.026
Moyle (Auchencrosh)	M	GU_500200	Auchencrosh 275 kV	0.964	0.989	0.965	0.984	0.971	0.988	0.973	0.983	0.976	0.991	0.973	0.988	0.987	0.993	0.999	0.995	1.001	0.990	0.988	0.999	0.987	1.002	0.993	1.005

NI Distribution-Connected Generation Station	Unit Identifier		Connected/Embedded at	Month																							
	SO	MO		January		February		March		April		May		June		July		August		September		October		November		December	
				Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Altahullion (1)	Wind Farm	GU_500210	Limavady 110 kV	0.987	1.010	0.990	1.003	0.992	1.005	0.989	0.997	1.009	1.019	0.988	1.007	1.006	1.015	1.013	1.013	1.013	1.001	1.006	1.016	1.011	1.021	1.022	1.024
Altahullion (2)	Wind Farm	GU_500211	Limavady 110 kV	0.987	1.010	0.990	1.003	0.992	1.005	0.989	0.997	1.009	1.019	0.988	1.007	1.006	1.015	1.013	1.013	1.013	1.001	1.006	1.016	1.011	1.021	1.022	1.024
Callagheen	Wind Farm	GU_500020	Enniskillen 110 kV	0.995	1.006	0.997	1.000	1.000	1.002	0.992	0.992	1.009	1.011	0.994	1.004	1.008	1.008	1.017	1.012	0.999	0.981	0.994	0.992	1.001	1.000	1.012	1.003
Lendrums Bridge (1)	Wind Farm	GU_500260	Omagh 110 kV	0.987	1.004	0.989	0.998	0.992	1.000	0.988	0.993	1.004	1.011	0.989	1.003	1.004	1.009	1.013	1.010	0.995	0.982	0.989	0.993	0.993	0.999	1.002	1.002
Lendrums Bridge (1)	Wind Farm	GU_500220	Omagh 110 kV	0.987	1.004	0.989	0.998	0.992	1.000	0.988	0.993	1.004	1.011	0.989	1.003	1.004	1.009	1.013	1.010	0.995	0.982	0.989	0.993	0.993	0.999	1.002	1.002
Mantlin Limited	Wind Farm	GU_500270	Aghyoule 110 kV	0.991	0.999	0.993	0.992	0.996	0.995	0.987	0.985	1.004	1.004	0.989	0.998	1.002	1.001	1.012	1.007	0.994	0.974	0.989	0.985	0.997	0.993	1.008	0.996
Snugborough	Wind Farm	GU_500180	Aghyoule 110 kV	0.991	0.999	0.993	0.992	0.996	0.995	0.987	0.985	1.004	1.004	0.989	0.998	1.002	1.001	1.012	1.007	0.994	0.974	0.989	0.985	0.997	0.993	1.008	0.996
Tappaghan	Wind Farm	GU_500010	Omagh 110 kV	0.987	1.004	0.989	0.998	0.992	1.000	0.988	0.993	1.004	1.011	0.989	1.003	1.004	1.009	1.013	1.010	0.995	0.982	0.989	0.993	0.993	0.999	1.002	1.002
Energia DSU	DSU	DSU_500190	NA	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Slieve Divena	Wind Farm	GU_500740	Omagh 110 kV	0.987	1.004	0.989	0.998	0.992	1.000	0.988	0.993	1.004	1.011	0.989	1.003	1.004	1.009	1.013	1.010	0.995	0.982	0.989	0.993	0.993	0.999	1.002	1.002
Garves	Wind Farm	GU_500720	Coleraine 110 kV	0.993	1.014	0.996	1.007	0.998	1.009	0.994	1.001	1.012	1.021	0.994	1.010	1.010	1.018	1.019	1.016	1.019	1.005	1.012	1.020	1.017	1.026	1.028	1.029
Gruig	Wind Farm	GU_500790	Coleraine 110 kV	0.993	1.014	0.996	1.007	0.998	1.009	0.994	1.001	1.012	1.021	0.994	1.010	1.010	1.018	1.019	1.016	1.019	1.005	1.012	1.020	1.017	1.026	1.028	1.029

Appendix B.1 – Draft Rol 2010 TLAFs by Node

EIRGRID INDICATIVE TRANSMISSION LOSS ADJUSTMENT FACTORS 2010

Transmission Station Details		January		February		March		April		May		June		July		August		September		October		November		December	
Station Name	kV	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Ardnacrusa	110	0.987	0.975	0.992	0.985	0.995	0.988	0.993	0.991	0.987	0.983	0.992	0.982	0.978	0.974	0.973	0.972	0.980	0.980	0.973	0.971	0.959	0.957	0.955	0.954
Aghada	110	0.992	0.982	0.992	0.983	0.993	0.983	0.984	0.980	0.966	0.964	0.969	0.960	0.920	0.939	0.918	0.939	0.933	0.953	0.921	0.936	0.926	0.934	0.922	0.928
Aghada	220	0.993	0.983	0.993	0.984	0.991	0.982	0.983	0.979	0.964	0.962	0.967	0.958	0.923	0.939	0.922	0.942	0.939	0.957	0.923	0.937	0.921	0.929	0.917	0.924
Arigna	110	0.988	0.980	0.989	0.982	0.989	0.983	0.990	0.985	0.991	0.986	0.994	0.988	0.999	0.988	1.001	0.990	0.996	0.987	1.001	0.991	1.000	0.991	0.999	0.995
Agannygal	110	0.979	0.964	0.982	0.970	0.981	0.969	0.983	0.974	0.975	0.966	0.972	0.963	0.967	0.957	0.964	0.959	0.967	0.963	0.969	0.958	0.960	0.951	0.954	0.946
Ahane	110	0.988	0.976	0.991	0.984	0.995	0.986	0.993	0.989	0.985	0.981	0.990	0.980	0.975	0.972	0.970	0.971	0.977	0.979	0.972	0.970	0.959	0.957	0.955	0.954
Anner	110	1.050	1.026	1.050	1.028	1.048	1.025	1.040	1.022	1.029	1.012	1.037	1.013	1.019	1.006	1.015	1.005	1.023	1.014	1.022	1.006	1.019	1.003	1.013	1.001
Arklow	110	1.016	1.010	1.011	1.008	1.005	1.004	1.006	1.005	1.008	1.005	1.013	1.009	1.019	1.014	1.012	1.011	1.007	1.012	1.017	1.014	1.015	1.015	1.013	1.013
Arklow	220	1.015	1.009	1.010	1.007	1.005	1.004	1.006	1.004	1.007	1.004	1.012	1.008	1.016	1.012	1.009	1.009	1.005	1.011	1.014	1.012	1.013	1.013	1.011	1.011
Athea	110	0.967	0.954	0.969	0.959	0.974	0.961	0.975	0.967	0.965	0.959	0.969	0.960	0.945	0.942	0.938	0.939	0.948	0.948	0.945	0.940	0.935	0.928	0.932	0.927
Athlone	110	1.001	0.983	1.003	0.988	0.997	0.983	1.001	0.989	0.994	0.979	0.998	0.983	0.996	0.980	0.999	0.988	0.995	0.985	1.004	0.986	1.000	0.983	0.994	0.979
Aughinish	110	0.954	0.947	0.963	0.958	0.967	0.961	0.965	0.966	0.960	0.964	0.960	0.961	0.954	0.961	0.950	0.960	0.949	0.962	0.945	0.952	0.938	0.938	0.931	0.933
Arva	110	1.011	1.005	1.010	1.007	1.010	1.005	1.010	1.005	1.014	1.009	1.016	1.008	1.024	1.012	1.024	1.012	1.021	1.008	1.025	1.014	1.027	1.017	1.026	1.022
Athy	110	1.010	1.000	1.012	1.003	1.004	0.997	1.011	1.004	1.003	0.997	1.006	1.001	1.019	1.011	1.008	1.008	1.001	1.003	1.010	1.001	1.011	1.004	1.011	1.005
Ballywater	110	1.041	1.018	1.036	1.016	1.029	1.012	1.023	1.006	1.020	1.002	1.025	1.006	1.023	1.005	1.017	1.003	1.020	1.009	1.026	1.007	1.035	1.014	1.033	1.013
Booliagh	110	0.986	0.967	0.989	0.975	0.991	0.976	0.989	0.978	0.982	0.972	0.985	0.971	0.975	0.964	0.971	0.963	0.977	0.969	0.973	0.962	0.960	0.950	0.956	0.948
Baltrasna	110	1.017	1.021	1.012	1.018	1.006	1.014	1.012	1.017	1.020	1.021	1.016	1.019	1.031	1.031	1.027	1.028	1.018	1.025	1.029	1.032	1.027	1.034	1.026	1.034
Ballylickey	110	0.987	0.965	0.988	0.967	0.991	0.968	0.979	0.962	0.961	0.949	0.969	0.949	0.932	0.931	0.929	0.931	0.947	0.945	0.936	0.930	0.937	0.927	0.933	0.924
Ballybeg	110	1.016	1.010	1.010	1.008	1.004	1.004	1.005	1.005	1.008	1.005	1.013	1.010	1.020	1.016	1.013	1.013	1.007	1.013	1.018	1.015	1.016	1.016	1.014	1.014
Blake	110	1.009	1.001	1.011	1.006	1.001	0.998	1.011	1.007	1.003	1.000	1.005	1.005	1.028	1.022	1.015	1.017	1.003	1.008	1.014	1.008	1.015	1.010	1.017	1.012
Binbane	110	0.959	0.943	0.965	0.956	0.965	0.954	0.964	0.959	0.969	0.963	0.980	0.964	0.980	0.964	0.978	0.961	0.972	0.960	0.977	0.960	0.983	0.960	0.975	0.971
Baroda	110	1.009	0.999	1.013	1.005	1.002	0.997	1.013	1.008	1.002	0.999	1.005	1.004	1.030	1.023	1.015	1.017	1.002	1.007	1.013	1.005	1.015	1.007	1.017	1.011
Ballydine	110	1.041	1.020	1.040	1.022	1.038	1.019	1.031	1.017	1.021	1.008	1.028	1.009	1.012	1.002	1.008	1.002	1.015	1.010	1.015	1.002	1.014	1.002	1.010	0.999
Barnahely	110	0.994	0.984	0.994	0.985	0.997	0.986	0.989	0.982	0.972	0.967	0.975	0.964	0.932	0.945	0.930	0.946	0.945	0.960	0.933	0.943	0.936	0.941	0.932	0.936
Bellacorick	110	1.032	1.005	1.035	1.007	1.037	1.011	1.032	1.008	1.029	1.005	1.033	1.006	1.036	1.006	1.036	1.008	1.036	1.006	1.052	1.022	1.046	1.014	1.044	1.019
Bandon	110	1.006	0.985	1.006	0.987	1.009	0.988	0.999	0.984	0.982	0.969	0.987	0.967	0.944	0.949	0.942	0.949	0.960	0.963	0.949	0.947	0.950	0.945	0.946	0.942
Barrymore	110	1.013	0.998	1.014	1.000	1.016	0.999	1.006	0.996	0.992	0.983	0.997	0.981	0.964	0.967	0.961	0.967	0.976	0.980	0.966	0.966	0.959	0.957	0.955	0.953
Butlerstown	110	1.026	1.012	1.024	1.011	1.021	1.009	1.016	1.007	1.011	1.001	1.015	1.003	1.005	1.000	1.000	0.998	1.005	1.005	1.006	0.999	1.011	1.003	1.009	1.001
Brinny	110	1.006	0.985	1.006	0.987	1.010	0.988	1.000	0.984	0.982	0.969	0.987	0.967	0.944	0.949	0.942	0.949	0.961	0.963	0.950	0.948	0.950	0.945	0.946	0.942
Banoge	110	1.028	1.015	1.023	1.012	1.017	1.009	1.015	1.007	1.015	1.005	1.020	1.009	1.022	1.012	1.015	1.009	1.013	1.012	1.022	1.012	1.025	1.016	1.022	1.014
Clashavoon	110	0.976	0.967	0.977	0.969	0.981	0.971	0.977	0.971	0.964	0.961	0.969	0.961	0.940	0.947	0.937	0.946	0.950	0.958	0.940	0.945	0.933	0.933	0.929	0.930
Clashavoon	220	0.981	0.971	0.982	0.974	0.985	0.975	0.981	0.976	0.969	0.965	0.973	0.965	0.946	0.952	0.942	0.951	0.955	0.963	0.946	0.950	0.937	0.938	0.934	0.935
Clonkeen	110	0.971	0.957	0.972	0.959	0.975	0.961	0.971	0.962	0.959	0.952	0.963	0.953	0.937	0.938	0.932	0.937	0.945	0.948	0.937	0.936	0.929	0.925	0.926	0.923
Coolroe	110	0.990	0.981	0.992	0.984	0.997	0.985	0.989	0.982	0.976	0.969	0.980	0.967	0.945	0.952	0.942	0.951	0.957	0.965	0.944	0.951	0.940	0.943	0.937	0.939
Corderry	110	0.983	0.975	0.985	0.978	0.985	0.979	0.985	0.981	0.987	0.982	0.990	0.984	0.995	0.984	0.996	0.986	0.992	0.983	0.996	0.986	0.997	0.986	0.995	0.990
Cashla	110	0.980	0.976	0.980	0.976	0.984	0.980	0.986	0.985	0.984	0.984	0.987	0.985	0.990	0.987	0.987	0.985	0.984	0.986	0.991	0.989	0.986	0.985	0.984	0.986
Cashla	220	0.982	0.978	0.982	0.979	0.985	0.981	0.988	0.986	0.986	0.985	0.988	0.986	0.991	0.988	0.988	0.986	0.985	0.987	0.991	0.989	0.987	0.986	0.984	0.986
Clahane	110	0.972	0.956	0.974	0.961	0.978	0.962	0.977	0.968	0.966	0.959	0.971	0.960	0.949	0.945	0.942	0.941	0.952	0.951	0.949	0.944	0.939	0.932	0.936	0.931
Castlebar	110	1.029	1.002	1.030	1.002	1.035	1.007	1.030	1.005	1.027	1.001	1.030	1.002	1.033	1.002	1.033	1.005	1.033	1.003	1.053	1.023	1.039	1.009	1.038	1.013
Carrigadrohid	110	0.980	0.969	0.981	0.971	0.984	0.973	0.980	0.973	0.966	0.961	0.971	0.961	0.940	0.947	0.937	0.946	0.951	0.959	0.940	0.945	0.934	0.934	0.930	0.931
Cathleen's Fall	110	0.967	0.954	0.969	0.965	0.973	0.962	0.972	0.968	0.977	0.973	0.987	0.972	0.988	0.975	0.986	0.973	0.980	0.969	0.984	0.971	0.989	0.970	0.982	0.981
Cahir	110	1.045	1.021	1.046	1.024	1.044	1.020	1.035	1.019	1.026	1.008	1.032	1.009	1.013	0.999	1.009	1.000	1.017	1.008	1.016	1.000	1.008	0.994	1.004	0.991
Carrickmines	110	1.011	1.009	1.005	1.006	0.999	1.002	1.002	1.004	1.006	1.006	1.011	1.011	1.021	1.018	1.014	1.015	1.005	1.014	1.018	1.018	1.015	1.018	1.013	1.016
Carrickmines	220	1.009	1.007	1.003	1.005	0.997	1.001	1.000	1.003	1.004	1.005	1.009	1.009	1.019	1.017	1.012	1.014	1.003	1.013	1.016	1.016	1.012	1.016	1.010	1.014
Cliff	110	0.964	0.952	0.968	0.964	0.970	0.961	0.970	0.968	0.975	0.973	0.986	0.973	0.987	0.975	0.985	0.972	0.978	0.969	0.982	0.970	0.986	0.969	0.979	0.980
Castlefarm	110	0.955	0.947	0.963	0.958	0.967	0.961	0.965	0.967	0.961	0.965	0.960	0.961	0.954	0.962										

EIRGRID INDICATIVE TRANSMISSION LOSS ADJUSTMENT FACTORS 2010

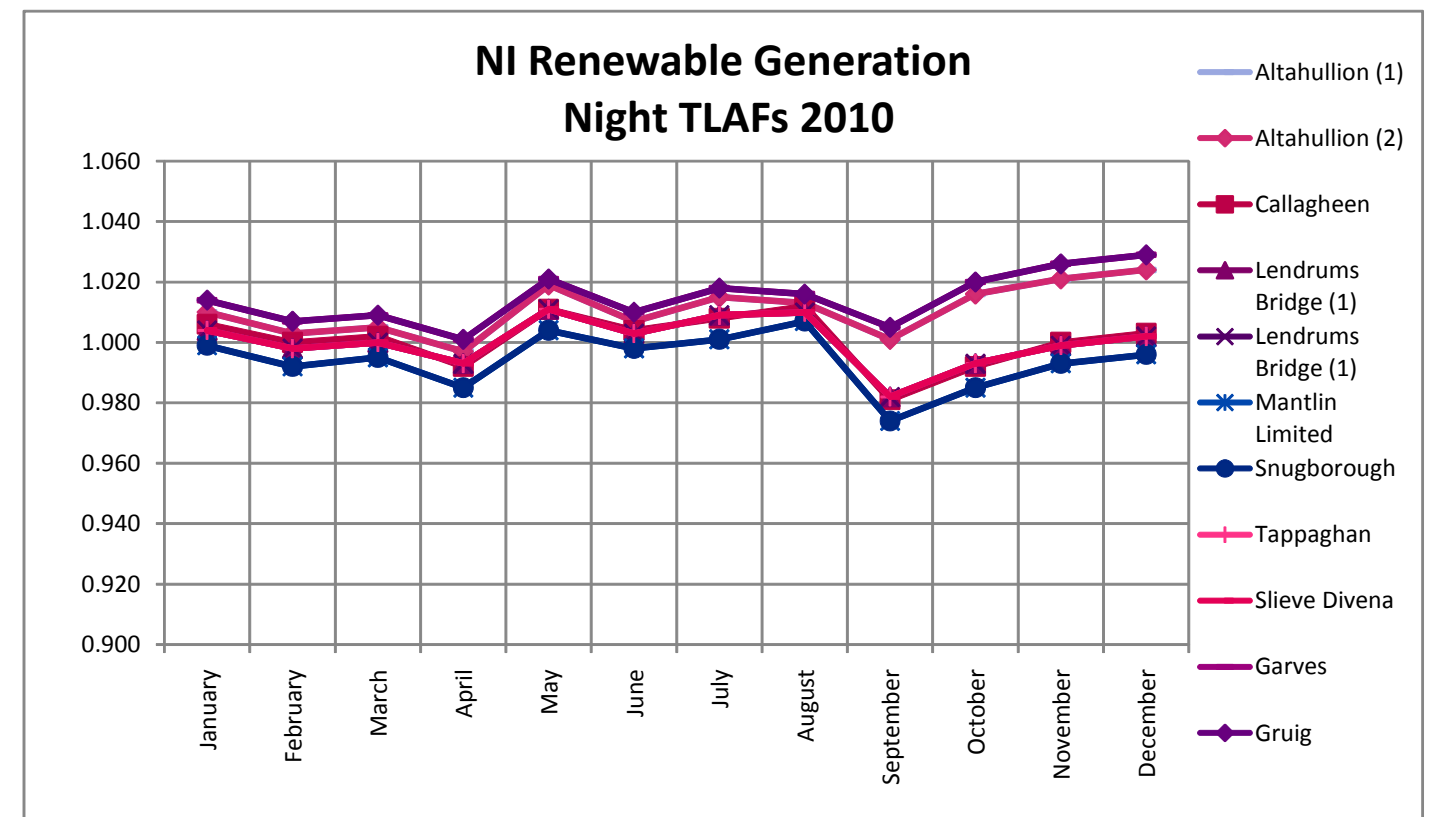
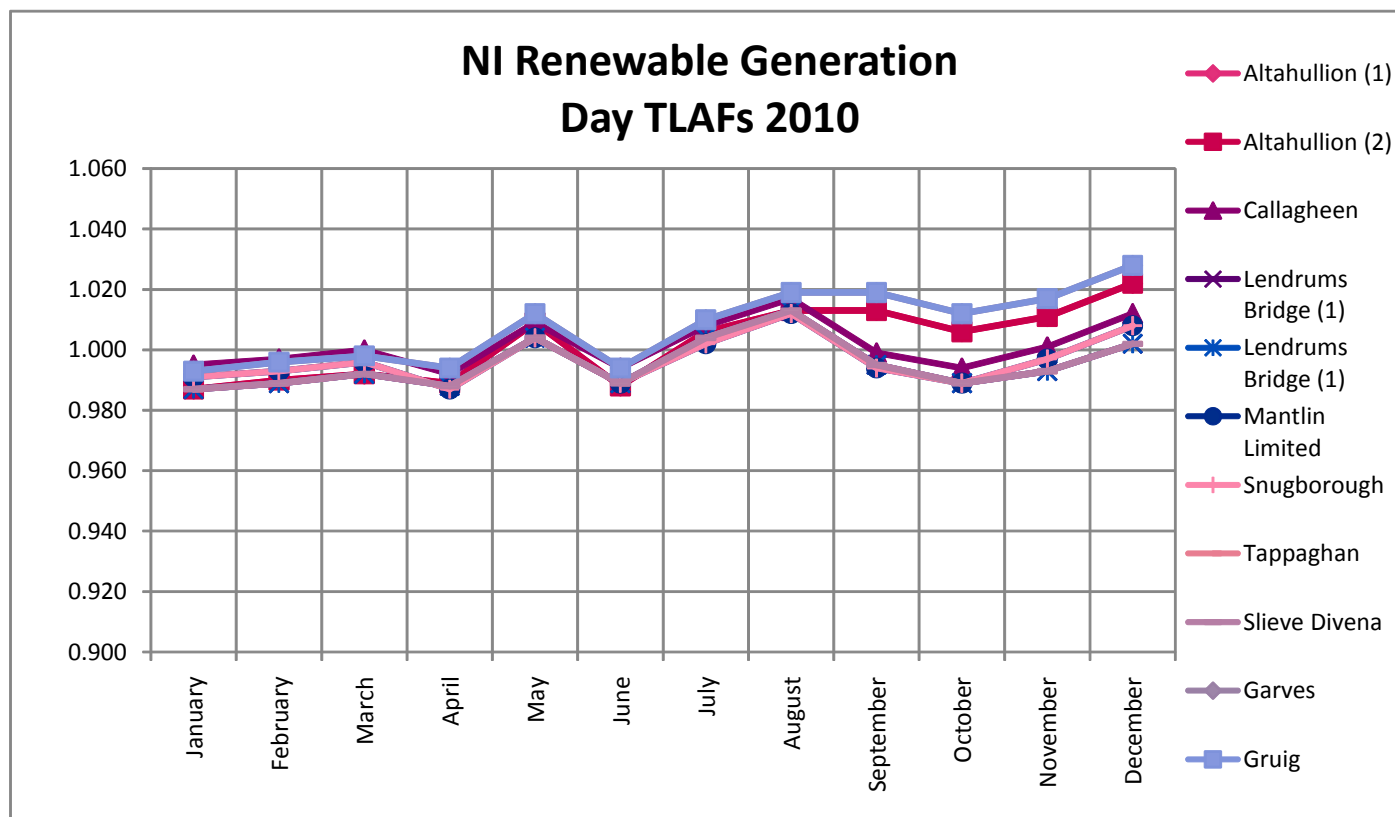
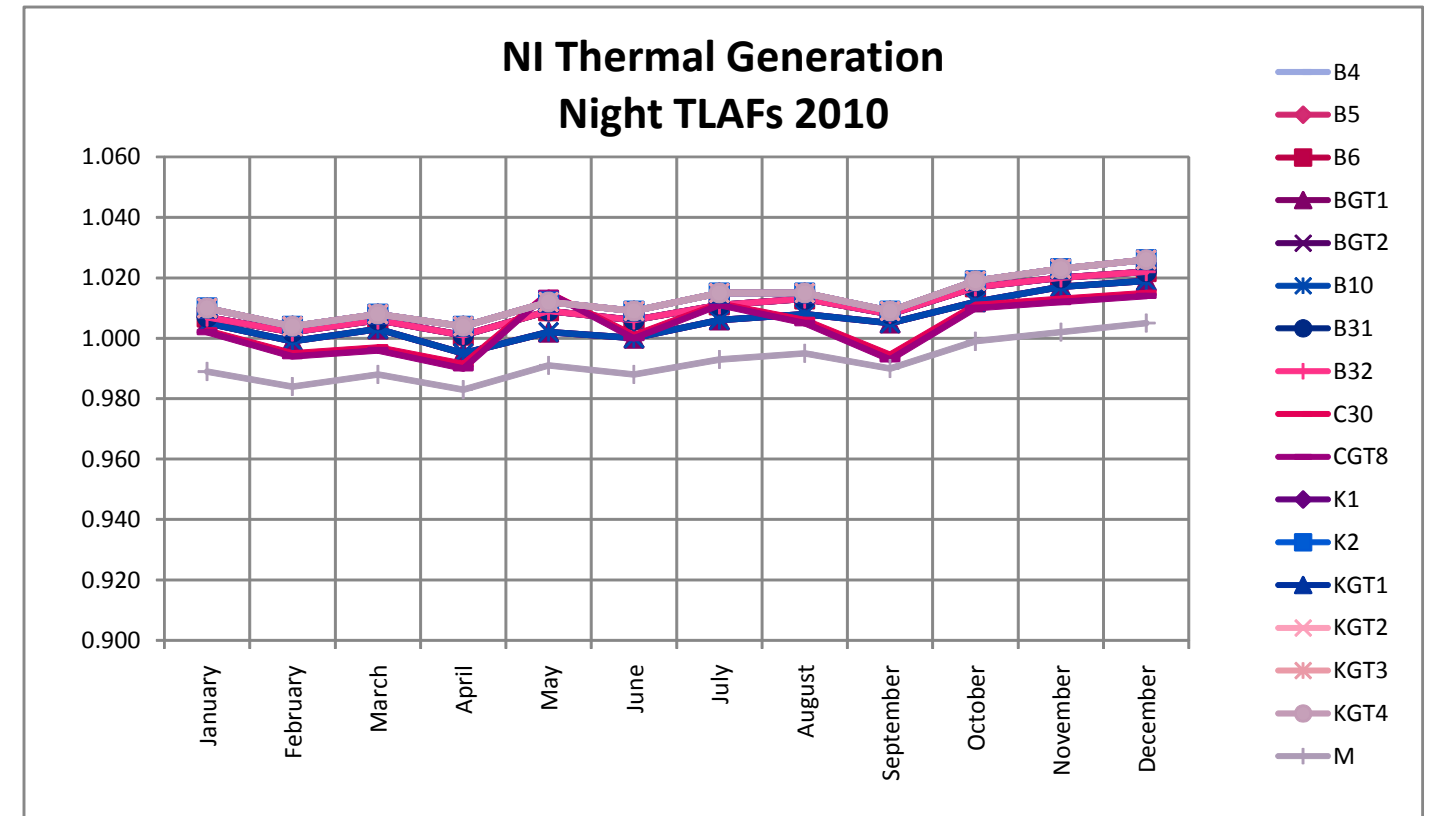
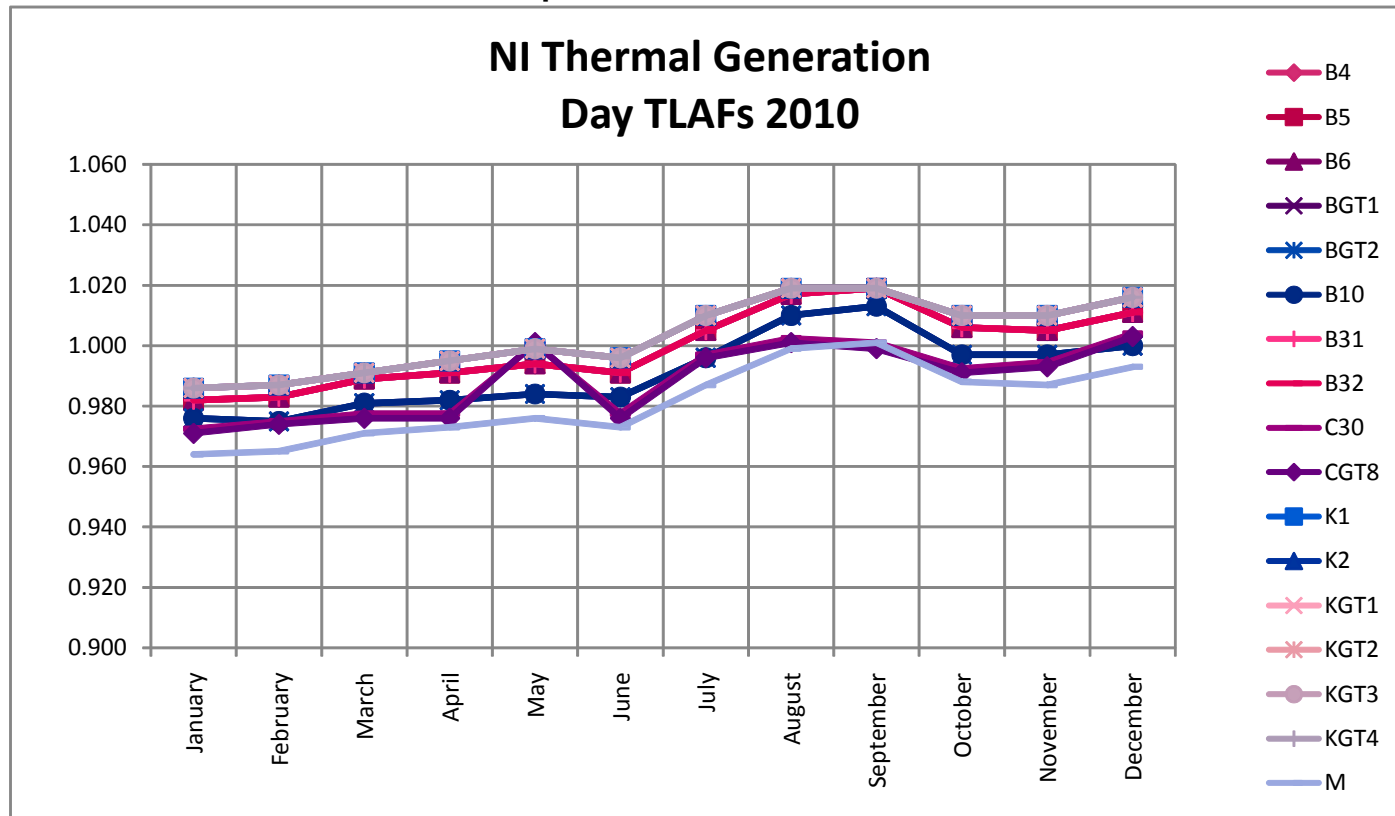
Transmission Station Details		January		February		March		April		May		June		July		August		September		October		November		December	
Station Name	kV	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Hartnett's Cross	110	0.978	0.968	0.979	0.970	0.983	0.972	0.978	0.972	0.965	0.961	0.970	0.960	0.940	0.946	0.937	0.945	0.951	0.958	0.940	0.945	0.933	0.933	0.929	0.930
Inniscarra	110	0.988	0.981	0.990	0.982	0.995	0.984	0.988	0.981	0.974	0.967	0.979	0.966	0.945	0.952	0.942	0.951	0.956	0.964	0.943	0.950	0.939	0.943	0.936	0.939
Inchicore	220	1.011	1.010	1.005	1.008	0.999	1.004	1.003	1.006	1.008	1.008	1.010	1.011	1.022	1.020	1.015	1.017	1.007	1.015	1.019	1.020	1.014	1.019	1.013	1.017
Ikerrin	110	1.029	1.006	1.030	1.010	1.026	1.005	1.024	1.008	1.014	0.998	1.020	1.000	1.009	0.994	1.006	0.996	1.005	0.998	1.011	0.995	1.005	0.990	0.998	0.985
Irishtown	220	1.008	1.007	1.001	1.004	0.995	1.000	0.999	1.002	1.003	1.004	1.008	1.009	1.018	1.017	1.011	1.014	1.002	1.012	1.015	1.016	1.011	1.015	1.009	1.013
Knockraha	110	0.991	0.981	0.991	0.983	0.995	0.984	0.986	0.981	0.973	0.969	0.977	0.968	0.943	0.953	0.941	0.954	0.956	0.968	0.944	0.951	0.937	0.940	0.933	0.937
Knockraha	220	0.986	0.977	0.986	0.978	0.990	0.980	0.982	0.978	0.969	0.967	0.973	0.966	0.941	0.951	0.939	0.952	0.953	0.966	0.941	0.949	0.941	0.943	0.937	0.940
Kilbarry	110	0.998	0.988	0.999	0.990	1.004	0.990	0.994	0.986	0.979	0.972	0.983	0.970	0.946	0.954	0.944	0.954	0.959	0.968	0.947	0.952	0.947	0.947	0.943	0.943
Kilteel	110	1.017	1.011	1.016	1.013	1.009	1.007	1.015	1.012	1.012	1.009	1.014	1.012	1.031	1.025	1.022	1.021	1.013	1.016	1.024	1.018	1.021	1.019	1.021	1.019
Kilkenny	110	1.041	1.025	1.038	1.024	1.033	1.021	1.037	1.023	1.034	1.018	1.038	1.021	1.036	1.022	1.030	1.019	1.031	1.024	1.037	1.022	1.045	1.028	1.042	1.031
Killonan	110	0.988	0.976	0.991	0.984	0.995	0.986	0.993	0.989	0.985	0.981	0.990	0.980	0.975	0.972	0.970	0.970	0.977	0.979	0.972	0.970	0.959	0.957	0.955	0.954
Killonan	220	0.985	0.974	0.987	0.980	0.990	0.981	0.989	0.984	0.980	0.976	0.985	0.977	0.969	0.969	0.965	0.967	0.972	0.975	0.969	0.968	0.959	0.957	0.956	0.954
Knockearagh	110	0.978	0.961	0.979	0.964	0.982	0.965	0.978	0.967	0.966	0.957	0.971	0.958	0.945	0.943	0.940	0.941	0.953	0.952	0.946	0.942	0.938	0.930	0.935	0.929
Knockumber	110	1.023	1.027	1.020	1.024	1.017	1.022	1.020	1.022	1.025	1.026	1.024	1.026	1.037	1.034	1.036	1.032	1.031	1.029	1.036	1.036	1.037	1.039	1.037	1.040
Kellis	110	1.018	1.011	1.014	1.010	1.010	1.007	1.011	1.008	1.010	1.006	1.014	1.009	1.018	1.013	1.011	1.010	1.008	1.012	1.015	1.011	1.016	1.014	1.014	1.013
Kellis	220	1.015	1.009	1.012	1.008	1.008	1.005	1.009	1.006	1.008	1.004	1.011	1.006	1.014	1.010	1.008	1.008	1.005	1.009	1.012	1.009	1.013	1.011	1.011	1.010
Kiltoy	110	0.955	0.927	0.959	0.937	0.956	0.935	0.950	0.936	0.954	0.938	0.965	0.942	0.965	0.939	0.962	0.936	0.959	0.936	0.965	0.935	0.981	0.941	0.974	0.954
Kinnegad	110	1.024	1.022	1.020	1.020	1.014	1.016	1.018	1.019	1.021	1.019	1.023	1.022	1.035	1.031	1.029	1.028	1.021	1.026	1.033	1.030	1.029	1.030	1.027	1.029
Killotern	110	1.026	1.012	1.024	1.011	1.020	1.009	1.016	1.007	1.010	1.001	1.015	1.003	1.005	1.000	1.000	0.999	1.005	1.006	1.007	1.000	1.011	1.003	1.009	1.002
Lanesboro	110	0.991	0.974	0.992	0.976	0.987	0.972	0.989	0.975	0.989	0.977	0.992	0.979	0.992	0.977	1.010	0.997	0.987	0.976	0.999	0.982	0.998	0.984	0.996	0.984
Louth	110	1.006	1.016	1.004	1.012	1.004	1.012	1.007	1.011	1.012	1.016	1.009	1.014	1.022	1.022	1.025	1.021	1.022	1.017	1.023	1.025	1.022	1.028	1.025	1.029
Louth	220	1.005	1.014	1.003	1.010	1.003	1.010	1.006	1.009	1.010	1.014	1.008	1.013	1.021	1.020	1.023	1.019	1.020	1.015	1.021	1.023	1.020	1.025	1.023	1.027
Limerick	110	0.985	0.973	0.990	0.983	0.994	0.985	0.992	0.988	0.985	0.981	0.989	0.980	0.976	0.973	0.971	0.971	0.977	0.979	0.972	0.970	0.959	0.957	0.955	0.953
Lisdrum	110	1.024	1.023	1.023	1.021	1.022	1.020	1.022	1.017	1.025	1.021	1.025	1.020	1.036	1.025	1.038	1.024	1.036	1.021	1.039	1.029	1.038	1.033	1.040	1.036
Longpoint	220	0.993	0.983	0.993	0.984	0.991	0.982	0.983	0.979	0.964	0.962	0.967	0.958	0.923	0.939	0.922	0.942	0.939	0.957	0.923	0.937	0.921	0.929	0.917	0.924
Letterkenny	110	0.955	0.927	0.959	0.938	0.956	0.935	0.950	0.936	0.954	0.939	0.965	0.942	0.965	0.939	0.963	0.936	0.959	0.936	0.965	0.936	0.981	0.942	0.974	0.954
Liberty Street	110	0.997	0.988	0.997	0.990	1.002	0.989	0.994	0.986	0.978	0.972	0.981	0.969	0.942	0.952	0.940	0.952	0.956	0.966	0.943	0.950	0.947	0.947	0.943	0.943
Lisheen	110	1.043	1.017	1.044	1.021	1.040	1.017	1.036	1.017	1.025	1.006	1.031	1.009	1.017	1.001	1.013	1.002	1.017	1.006	1.020	1.002	1.012	0.996	1.006	0.992
Midleton	110	0.999	0.987	0.999	0.989	1.002	0.989	0.992	0.986	0.976	0.971	0.980	0.969	0.940	0.951	0.938	0.952	0.954	0.966	0.941	0.949	0.941	0.944	0.937	0.939
Meath Hill	110	1.013	1.021	1.012	1.017	1.011	1.017	1.013	1.014	1.018	1.019	1.015	1.018	1.029	1.025	1.031	1.024	1.029	1.020	1.030	1.028	1.029	1.032	1.032	1.034
Maynooth	110	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
Maynooth	220	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009	1.009
Macroom	110	0.979	0.969	0.980	0.971	0.984	0.972	0.979	0.972	0.965	0.961	0.970	0.961	0.940	0.947	0.937	0.946	0.951	0.958	0.940	0.945	0.933	0.934	0.930	0.931
Moneteen	110	0.980	0.969	0.985	0.978	0.989	0.981	0.987	0.985	0.981	0.979	0.984	0.977	0.972	0.972	0.968	0.970	0.972	0.977	0.967	0.967	0.955	0.953	0.950	0.950
Moneypoint	110	0.983	0.963	0.986	0.971	0.988	0.972	0.985	0.973	0.979	0.968	0.982	0.966	0.972	0.959	0.967	0.958	0.974	0.965	0.970	0.957	0.956	0.945	0.951	0.943
Moneypoint	220	0.967	0.961	0.970	0.966	0.975	0.969	0.984	0.980	0.973	0.972	0.978	0.974	0.967	0.968	0.958	0.961	0.966	0.970	0.966	0.966	0.956	0.954	0.955	0.955
Moneypoint	380	0.977	0.977	0.976	0.979	0.977	0.980	0.988	0.992	0.986	0.991	0.989	0.995	1.002	1.003	0.982	0.985	0.985	0.992	0.999	1.003	0.988	0.993	0.992	1.001
Marina	110	0.997	0.989	0.997	0.990	1.002	0.989	0.994	0.986	0.978	0.972	0.981	0.969	0.942	0.952	0.940	0.952	0.956	0.966	0.943	0.950	0.947	0.947	0.943	0.943
Mungret	110	0.980	0.969	0.986	0.979	0.989	0.981	0.987	0.985	0.981	0.979	0.984	0.977	0.972	0.972	0.968	0.971	0.972	0.977	0.967	0.967	0.956	0.954	0.951	0.950
Mullingar	110	1.021	1.008	1.019	1.008	1.011	1.003	1.014	1.005	1.018	1.007	1.017	1.007	1.025	1.012	1.032	1.021	1.024	1.018	1.038	1.025	1.039	1.029	1.037	1.029
Mallow	110	1.004	0.991	1.005	0.993	1.009	0.993	0.994	0.984	0.979	0.970	0.983	0.969	0.948	0.952	0.945	0.952	0.961	0.966	0.949	0.951	0.948	0.945	0.945	0.942
Moy	110	1.033	1.007	1.037	1.010	1.037	1.013	1.032	1.011	1.030	1.008	1.034	1.009	1.038	1.008	1.037	1.010	1.037	1.009	1.050	1.021	1.049	1.017	1.047	1.022
Mullagharlin	110	1.014	1.023	1.013	1.019	1.012	1.019	1.014	1.016	1.019	1.021	1.017	1.020	1.030	1.027	1.033	1.026	1.030	1.022	1.031	1.030	1.031	1.034	1.033	1.036
Meentycat	110	0.947	0.922	0.952	0.933	0.949	0.931	0.945	0.932	0.948	0.935	0.959	0.938	0.960	0.936	0.957	0.933	0.953	0.932	0.959	0.932	0.973	0.937	0.966	0.949
Monread	110	1.012	1.004	1.014	1.008	1.004	1.001	1.014	1.010	1.006	1.002	1.008	1.007	1.032	1.024	1.018	1.019	1.006	1.010	1.017	1.010	1.019	1.012	1.020	1.015
Newbridge	110	1.005	0.995	1.009	1.002	0.998	0.993	1.010	1.005	0.998	0.995	1.000	1.000	1.028	1.020	1.011	1.014	0.998	1.003	1.009	1.000				

Appendix B.2 – Draft RoI 2010 TLAFs by Market Participant

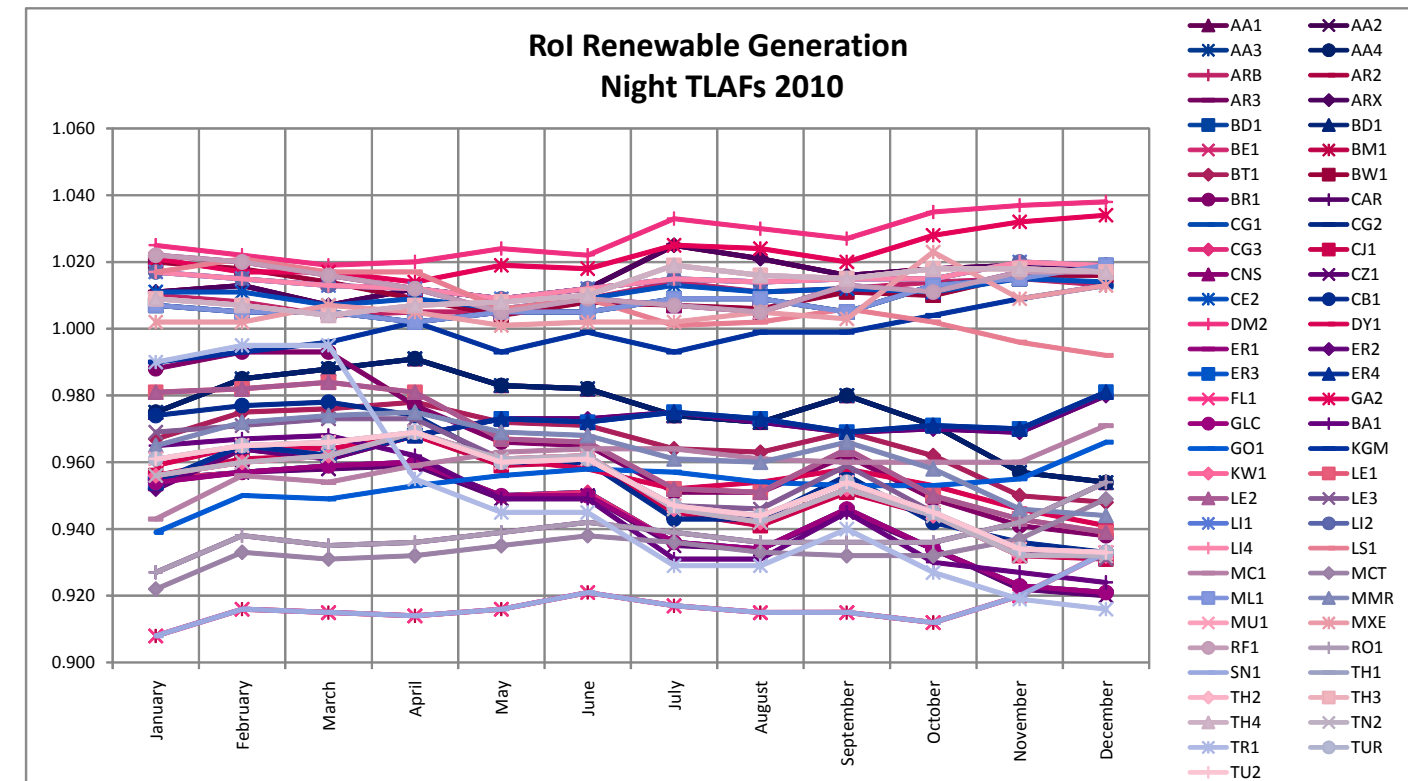
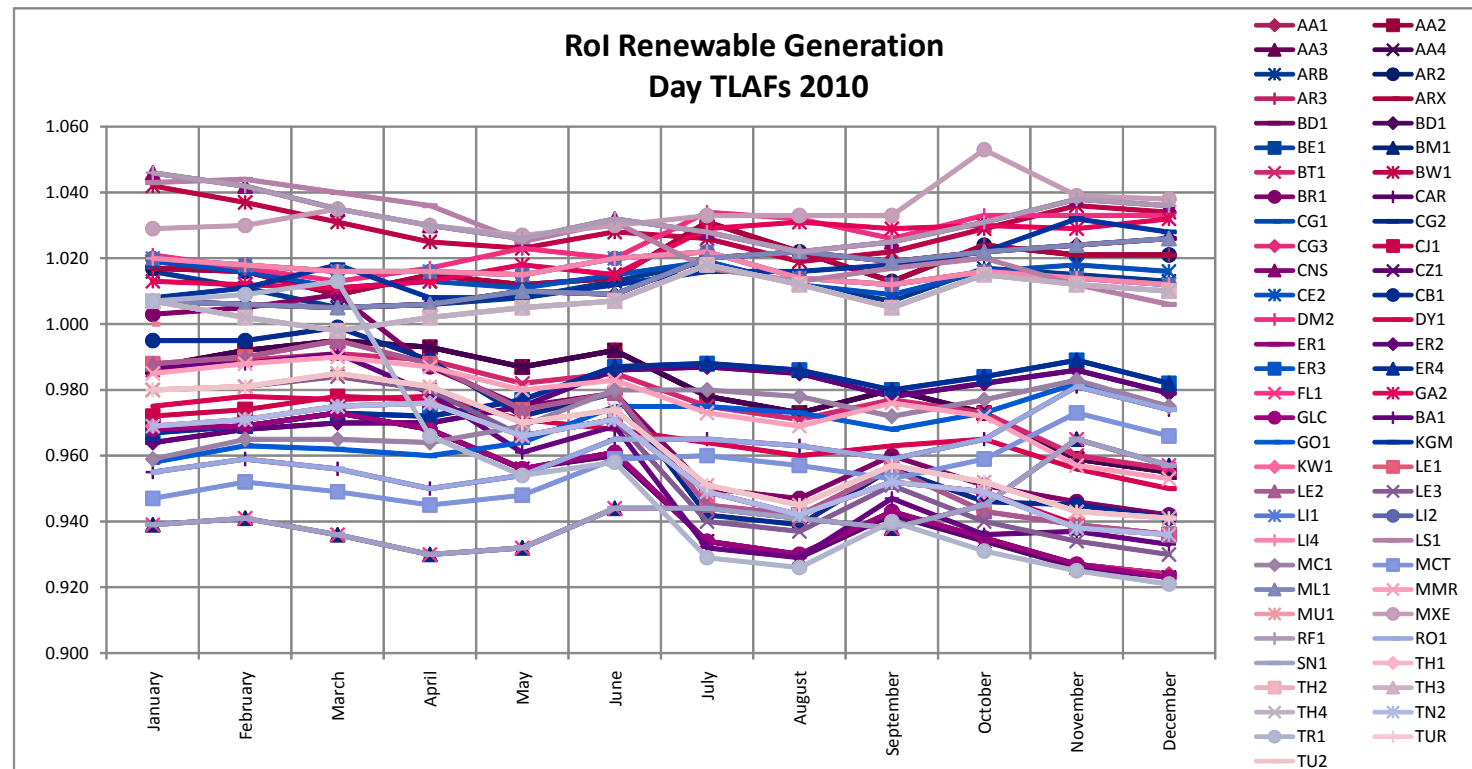
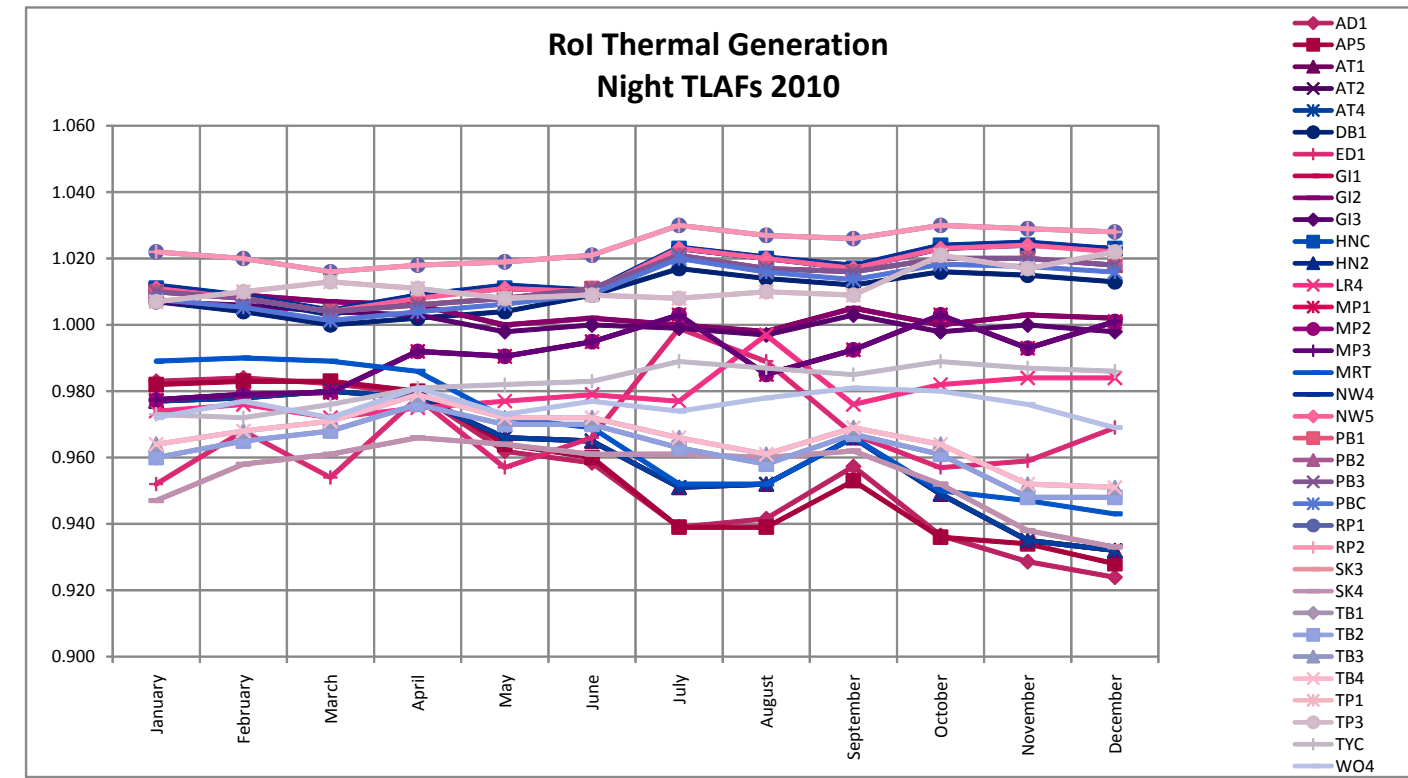
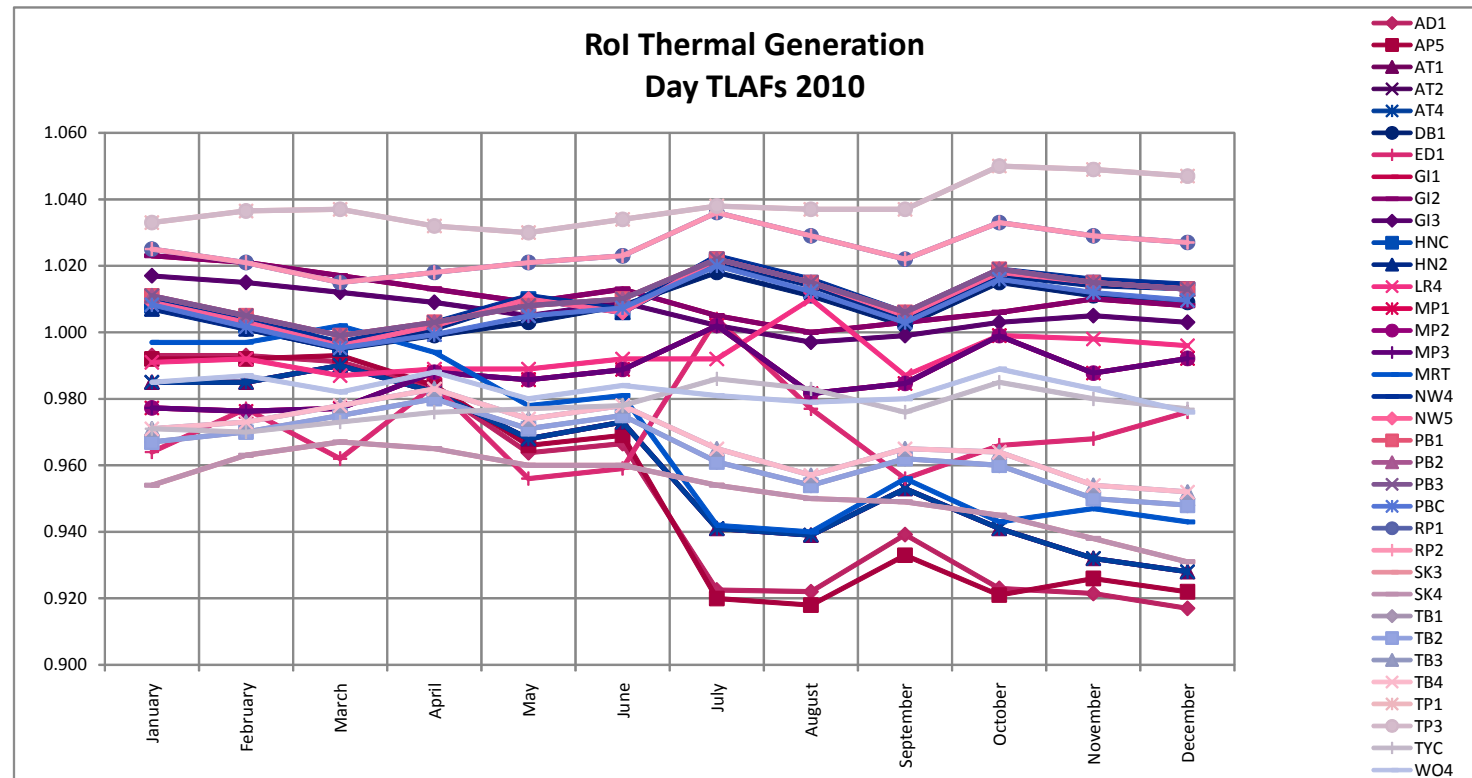
ALL-ISLAND MARKET PARTICIPANT DRAFT TRANSMISSION LOSS ADJUSTMENT FACTORS 2010																											
Market Participant Name	Unit Id	Transmission Station	kV	January		February		March		April		May		June		July		August		September		October		November		December	
				Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Ardnacrusa (ESB)	AA1	Ardnacrusa	110	0.987	0.975	0.992	0.985	0.995	0.988	0.993	0.991	0.987	0.983	0.992	0.982	0.978	0.974	0.973	0.972	0.980	0.980	0.973	0.971	0.959	0.957	0.955	0.954
Ardnacrusa (ESB)	AA2	Ardnacrusa	110	0.987	0.975	0.992	0.985	0.995	0.988	0.993	0.991	0.987	0.983	0.992	0.982	0.978	0.974	0.973	0.972	0.980	0.980	0.973	0.971	0.959	0.957	0.955	0.954
Ardnacrusa (ESB)	AA3	Ardnacrusa	110	0.987	0.975	0.992	0.985	0.995	0.988	0.993	0.991	0.987	0.983	0.992	0.982	0.978	0.974	0.973	0.972	0.980	0.980	0.973	0.971	0.959	0.957	0.955	0.954
Ardnacrusa (ESB)	AA4	Ardnacrusa	110	0.987	0.975	0.992	0.985	0.995	0.988	0.993	0.991	0.987	0.983	0.992	0.982	0.978	0.974	0.973	0.972	0.980	0.980	0.973	0.971	0.959	0.957	0.955	0.954
Aghada (ESB)	AD1	Aghada	220	0.993	0.983	0.993	0.984	0.991	0.982	0.983	0.979	0.964	0.962	0.967	0.958	0.923	0.939	0.922	0.942	0.939	0.957	0.923	0.937	0.921	0.929	0.917	0.924
Aghada PCP (ESB)	AP5	Aghada	110	0.992	0.982	0.992	0.983	0.993	0.983	0.984	0.980	0.966	0.964	0.969	0.960	0.920	0.939	0.918	0.939	0.933	0.953	0.921	0.936	0.926	0.934	0.922	0.928
Arklow Banks (Arklow Energy Ltd.)	ARB	Arklow	110	1.016	1.010	1.011	1.008	1.005	1.004	1.006	1.005	1.008	1.005	1.013	1.009	1.019	1.014	1.012	1.011	1.007	1.012	1.017	1.014	1.015	1.015	1.013	1.013
Aghada (ESB)	AT1	Aghada	220	0.985	0.977	0.985	0.978	0.990	0.980	0.982	0.978	0.968	0.966	0.973	0.965	0.941	0.951	0.939	0.952	0.953	0.966	0.941	0.949	0.932	0.935	0.928	0.932
Aghada (ESB)	AT2	Aghada	220	0.985	0.977	0.985	0.978	0.990	0.980	0.982	0.978	0.968	0.966	0.973	0.965	0.941	0.951	0.939	0.952	0.953	0.966	0.941	0.949	0.932	0.935	0.928	0.932
Aghada (ESB)	AT4	Aghada	220	0.985	0.977	0.985	0.978	0.990	0.980	0.982	0.978	0.968	0.966	0.973	0.965	0.941	0.951	0.939	0.952	0.953	0.966	0.941	0.949	0.932	0.935	0.928	0.932
Arthurstown Landfill Phase 2 (Irish Power Systems Ltd.)	AR2	Kilkeel	110	1.017	1.011	1.016	1.013	1.009	1.007	1.015	1.012	1.012	1.009	1.014	1.012	1.031	1.025	1.022	1.021	1.013	1.016	1.024	1.018	1.021	1.019	1.021	1.019
Arthurstown Landfill Phase 3 (Irish Power Systems Ltd.)	AR3	Kilkeel	110	1.017	1.011	1.016	1.013	1.009	1.007	1.015	1.012	1.012	1.009	1.014	1.012	1.031	1.025	1.022	1.021	1.013	1.016	1.024	1.018	1.021	1.019	1.021	1.019
Arthurstown Landfill Phase 1 & 4 (Irish Power Systems Ltd.)	ARX	Kilkeel	110	1.017	1.011	1.016	1.013	1.009	1.007	1.015	1.012	1.012	1.009	1.014	1.012	1.031	1.025	1.022	1.021	1.013	1.016	1.024	1.018	1.021	1.019	1.021	1.019
Ratussan Wind Farm (Bindoo Wind Farm Ltd.)	BD1	Ratussan	110	1.007	1.007	1.006	1.005	1.005	1.005	1.006	1.002	1.010	1.005	1.009	1.005	1.020	1.009	1.022	1.009	1.019	1.005	1.022	1.013	1.024	1.015	1.026	1.019
Mountain Lodge (Bindoo Wind Farm Ltd.)	BD1	Ratussan	110	1.007	1.007	1.006	1.005	1.005	1.005	1.006	1.002	1.010	1.005	1.009	1.005	1.020	1.009	1.022	1.009	1.019	1.005	1.022	1.013	1.024	1.015	1.026	1.019
Beale Hill	BE1	Trillick	110	0.969	0.956	0.971	0.960	0.975	0.962	0.976	0.969	0.966	0.961	0.971	0.962	0.949	0.946	0.942	0.942	0.952	0.952	0.949	0.944	0.938	0.932	0.936	0.932
Beam Hill (Beam Wind Ltd.)	BM1	Trillick	110	0.939	0.908	0.941	0.916	0.936	0.915	0.930	0.914	0.932	0.916	0.944	0.921	0.944	0.917	0.941	0.915	0.938	0.915	0.945	0.912	0.965	0.920	0.957	0.933
Booliagh (Booliagh Windfarm Ltd.)	BT1	Booliagh	110	0.986	0.967	0.989	0.975	0.991	0.976	0.989	0.978	0.982	0.972	0.985	0.971	0.975	0.964	0.971	0.963	0.977	0.969	0.973	0.962	0.960	0.950	0.956	0.948
Ballywater (Ballywater Windfarms Ltd.)	BW1	Crane	110	1.042	1.020	1.037	1.018	1.031	1.014	1.025	1.009	1.023	1.004	1.028	1.008	1.026	1.007	1.019	1.006	1.022	1.011	1.029	1.010	1.036	1.016	1.034	1.016
Bruree Hydro (Slievareagh Power Ltd.)	BR1	Charleville	110	1.003	0.988	1.005	0.993	1.009	0.993	0.987	0.977	0.975	0.966	0.979	0.965	0.950	0.951	0.947	0.951	0.960	0.962	0.951	0.949	0.946	0.941	0.942	0.938
Cark Wind Farm	CAR	Letterkenny	110	0.955	0.927	0.959	0.938	0.956	0.935	0.950	0.936	0.954	0.939	0.965	0.942	0.965	0.939	0.963	0.936	0.959	0.936	0.965	0.936	0.981	0.942	0.974	0.954
Coomagearlahy (SWS Kilgarvan Windfarm Ltd.)	CG1	Coomagearlahy	110	0.968	0.955	0.969	0.957	0.973	0.959	0.968	0.960	0.956	0.950	0.961	0.951	0.934	0.936	0.930	0.934	0.943	0.946	0.935	0.934	0.927	0.923	0.924	0.921
Coomagearlahy (SWS Kilgarvan Windfarm Ltd.)	CG2	Coomagearlahy	110	0.968	0.955	0.969	0.957	0.973	0.959	0.968	0.960	0.956	0.950	0.961	0.951	0.934	0.936	0.930	0.934	0.943	0.946	0.935	0.934	0.927	0.923	0.924	0.921
Coomagearlahy (SWS Kilgarvan Windfarm Ltd.)	CG3	Coomagearlahy	110	0.968	0.955	0.969	0.957	0.973	0.959	0.968	0.960	0.956	0.950	0.961	0.951	0.934	0.936	0.930	0.934	0.943	0.946	0.935	0.934	0.927	0.923	0.924	0.921
Clahane Wind Farm (Pallas Wind Farm Ltd.)	CJ1	Clahane	110	0.972	0.956	0.974	0.961	0.978	0.962	0.977	0.968	0.966	0.959	0.971	0.960	0.949	0.945	0.942	0.941	0.952	0.951	0.949	0.944	0.939	0.932	0.936	0.931
Camsore (Hibernian)	CNS	Wexford	110	1.046	1.022	1.042	1.020	1.035	1.016	1.030	1.012	1.026	1.005	1.032	1.009	1.028	1.007	1.022	1.005	1.025	1.013	1.031	1.011	1.038	1.017	1.036	1.017
Coomacheo Wind Farm (Coomacheo Wind Farm Ltd.)	CZ1	Garrow	110	0.968	0.954	0.969	0.957	0.973	0.958	0.968	0.959	0.956	0.949	0.960	0.950	0.934	0.935	0.929	0.934	0.942	0.945	0.934	0.934	0.926	0.922	0.923	0.920
Cronlea Upper Windfarm Phase 2 (Bearnie Gaoithe Powe Supply)	CE2	Carlow	110	1.019	1.011	1.016	1.011	1.011	1.007	1.013	1.009	1.011	1.006	1.015	1.009	1.019	1.013	1.012	1.011	1.009	1.012	1.016	1.011	1.018	1.015	1.016	1.014
Curabew Wind Farm (Galeforce Energy Ltd.)	CB1	Dunmanway	110	0.995	0.974	0.995	0.977	0.999	0.978	0.989	0.974	0.972	0.980	0.979	0.960	0.942	0.943	0.939	0.943	0.956	0.956	0.946	0.942	0.945	0.936	0.941	0.933
Dublin Bay Power (Synergis)	DB1	Insh town	220	1.008	1.007	1.001	1.004	0.995	1.000	0.999	1.002	1.003	1.004	1.008	1.009	1.018	1.017	1.011	1.014	1.002	1.012	1.015	1.016	1.011	1.015	1.009	1.013
Dunmore Windfarm Phase 2 (Dunmore Power Ltd.)	DM2	Dnybridge	110	1.021	1.025	1.017	1.022	1.013	1.019	1.017	1.020	1.023	1.024	1.020	1.022	1.034	1.033	1.032	1.030	1.026	1.027	1.033	1.035	1.033	1.037	1.033	1.038
Derrybrien (Gort Wind Farms Ltd.)	DY1	Derrybrien	110	0.975	0.959	0.978	0.965	0.977	0.964	0.978	0.968	0.971	0.961	0.968	0.958	0.964	0.952	0.960	0.954	0.963	0.958	0.965	0.953	0.956	0.946	0.950	0.941
Edenderry (Edenderry Power Ltd.)	ED1	Cushaling	110	0.964	0.952	0.977	0.968	0.962	0.954	0.984	0.978	0.968	0.956	0.957	0.959	0.966	1.004	0.999	0.977	0.989	0.956	0.967	0.968	0.959	0.976	0.969	
Cliff (ESB)	ER1	Cliff	110	0.964	0.952	0.968	0.964	0.970	0.961	0.970	0.968	0.975	0.973	0.986	0.973	0.987	0.975	0.985	0.972	0.978	0.969	0.982	0.970	0.986	0.969	0.979	0.980
Cliff (ESB)	ER2	Cliff	110	0.964	0.952	0.968	0.964	0.970	0.961	0.970	0.968	0.975	0.973	0.986	0.973	0.987	0.975	0.985	0.972	0.978	0.969	0.982	0.970	0.986	0.969	0.979	0.980
Cathleen's Fall (ESB)	ER3	Cathleen's Fall	110	0.967	0.954	0.969	0.965	0.973	0.962	0.972	0.968	0.977	0.973	0.987	0.972	0.988	0.975	0.986	0.973	0.980	0.969	0.984	0.971	0.989	0.970	0.982	0.981
Cathleen's Fall (ESB)	ER4	Cathleen's Fall	110	0.967	0.954	0.969	0.965	0.973	0.962	0.972	0.968	0.977	0.973	0.987	0.972	0.988	0.975	0.986	0.973	0.980	0.969	0.984	0.971	0.989	0.970	0.982	0.981
Flughland Windfarm (SWS Green Energy Ltd.)	FL1	Trillick	110	0.939	0.908	0.941	0.916	0.936	0.915	0.930	0.914	0.932	0.916	0.944	0.921	0.944	0.917	0.941	0.915	0.938	0.915	0.945	0.912	0.965	0.920	0.957	0.933
Gartaneane Ltd (A																											

Appendix C: Analysis of 2010 TLAFs

C.1 Northern Ireland Market Participant 2010 TLAFs



C.2 RoI Market Participant 2010 TLAFS



C.3 Change in NI TLAFs from 2009 to 2010

NI Transmission Connected Generation Station	Unit Identifier		Month																								Average			
			January		February		March		April		May		June		July		August		September		October		November		December		2009	2010	% Change	
	SO	MO	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night				
Ballylumford	B4	GU 500100	1.70%	4.20%	1.60%	3.80%	2.00%	4.10%	2.90%	3.10%	2.80%	3.80%	2.00%	2.50%	3.90%	3.20%	5.10%	3.50%	4.50%	1.80%	2.60%	1.20%	2.30%	2.30%	3.10%	3.30%	0.975	1.005	2.97%	
Ballylumford	B5	GU 500281	1.70%	4.20%	1.60%	3.80%	2.00%	4.10%	2.90%	3.10%	2.80%	3.80%	2.00%	2.50%	3.90%	3.20%	5.10%	3.50%	4.50%	1.80%	2.60%	1.20%	2.30%	2.30%	3.10%	3.30%	0.975	1.005	2.97%	
Ballylumford	B6	GU 500280	1.70%	4.20%	1.60%	3.80%	2.00%	4.10%	2.90%	3.10%	2.80%	3.80%	2.00%	2.50%	3.90%	3.20%	5.10%	3.50%	4.50%	1.80%	2.60%	1.20%	2.30%	2.30%	3.10%	3.30%	0.975	1.005	2.97%	
Ballylumford	BGT1	GU 500150	2.00%	4.20%	1.60%	3.70%	2.10%	4.20%	2.70%	2.70%	2.50%	3.30%	1.80%	2.20%	3.40%	2.90%	4.90%	3.20%	4.30%	1.70%	2.10%	0.90%	2.10%	2.20%	2.70%	3.20%	0.971	0.999	2.78%	
Ballylumford	BGT2	GU 500160	2.00%	4.20%	1.60%	3.70%	2.10%	4.20%	2.70%	2.70%	2.50%	3.30%	1.80%	2.20%	3.40%	2.90%	4.90%	3.20%	4.30%	1.70%	2.10%	0.90%	2.10%	2.20%	2.70%	3.20%	0.971	0.999	2.78%	
Ballylumford	B10	GU 500140	2.00%	4.20%	1.60%	3.70%	2.10%	4.20%	2.70%	2.70%	2.50%	3.30%	1.80%	2.20%	3.40%	2.90%	4.90%	3.20%	4.30%	1.70%	2.10%	0.90%	2.10%	2.20%	2.70%	3.20%	0.971	0.999	2.78%	
Ballylumford	B31	GU 500130	1.70%	4.20%	1.60%	3.80%	2.00%	4.10%	2.90%	3.10%	2.80%	3.80%	2.00%	2.50%	3.90%	3.20%	5.10%	3.50%	4.50%	1.80%	2.60%	1.20%	2.30%	2.30%	3.10%	3.30%	0.975	1.005	2.97%	
Ballylumford	B32	GU 500131																												
Coolkeeragh	C30	GU 500040	1.65%	3.95%	1.60%	3.30%	1.75%	3.60%	2.25%	2.35%	4.15%	4.60%	1.25%	2.30%	3.50%	3.45%	4.15%	3.00%	3.10%	0.65%	1.65%	0.80%	1.85%	1.80%	3.10%	2.80%	0.971	0.997	2.61%	
Coolkeeragh	CGT8	GU 500170	1.80%	5.00%	2.10%	4.80%	1.40%	4.30%	2.60%	3.30%	5.00%	4.90%	0.70%	1.10%	4.20%	2.70%	4.90%	2.40%	3.50%	-0.10%	2.20%	0.30%	2.40%	1.30%	3.60%	2.20%	0.968	0.996	2.77%	
Kilroot	K1	GU 500060	1.80%	4.20%	1.80%	3.70%	1.90%	4.00%	2.90%	3.10%	3.10%	3.80%	2.30%	2.70%	4.10%	3.40%	5.00%	3.40%	4.30%	1.70%	2.80%	1.60%	2.60%	2.50%	3.30%	3.50%	0.977	1.008	3.06%	
Kilroot	K2	GU 500070	1.80%	4.20%	1.80%	3.70%	1.90%	4.00%	2.90%	3.10%	3.10%	3.80%	2.30%	2.70%	4.10%	3.40%	5.00%	3.40%	4.30%	1.70%	2.80%	1.60%	2.60%	2.50%	3.30%	3.50%	0.977	1.008	3.06%	
Kilroot	KGT1	GU 500080	1.80%	4.20%	1.80%	3.70%	1.90%	4.00%	2.90%	3.10%	3.10%	3.80%	2.30%	2.70%	4.10%	3.40%	5.00%	3.40%	4.30%	1.70%	2.80%	1.60%	2.60%	2.50%	3.30%	3.50%	0.977	1.008	3.06%	
Kilroot	KGT2	GU 500090	1.80%	4.20%	1.80%	3.70%	1.90%	4.00%	2.90%	3.10%	3.10%	3.80%	2.30%	2.70%	4.10%	3.40%	5.00%	3.40%	4.30%	1.70%	2.80%	1.60%	2.60%	2.50%	3.30%	3.50%	0.977	1.008	3.06%	
Kilroot	KGT3	GU 500820																										1.008		
Kilroot	KGT4	GU 500821																										1.008		
Moyle (Auchencrosh)	M	GU 500200	1.70%	4.20%	1.60%	3.80%	2.00%	4.10%	2.90%	3.10%	2.80%	3.80%	2.00%	2.50%	3.80%	3.20%	5.10%	3.50%	4.50%	1.80%	2.60%	1.20%	2.20%	2.20%	3.10%	3.30%	0.957	0.987	2.96%	

NI Distribution-Connected Generation Station	Unit Identifier		Month																								Average			
			January		February		March		April		May		June		July		August		September		October		November		December		2009	2010	% Change	
	SO	MO	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night				
Altahullion (1)	Wind Farm	GU 500210	2.00%	5.00%	2.20%	4.80%	2.00%	4.80%	3.10%	3.60%	5.00%	5.20%	1.40%	2.10%	4.60%	3.30%	5.40%	3.30%	4.10%	0.80%	2.80%	0.80%	3.10%	2.10%	4.30%	3.00%	0.974	1.007	3.28%	
Altahullion (2)	Wind Farm	GU 500211	2.00%	5.00%	2.20%	4.80%	2.00%	4.80%	3.10%	3.60%	5.00%	5.20%	1.40%	2.10%	4.60%	3.30%	5.40%	3.30%	4.10%	0.80%	2.80%	0.80%	3.10%	2.10%	4.30%	3.00%	0.974	1.007	3.28%	
Callagheen	Wind Farm	GU 500020	-0.10%	3.60%	0.10%	3.00%	0.00%	3.10%	1.10%	2.20%	2.80%	3.90%	0.30%	2.00%	3.80%	3.30%	4.80%	4.20%	1.70%	-0.30%	1.50%	0.40%	1.60%	1.30%	2.70%	2.30%	0.981	1.001	2.05%	
Lendrums Bridge (1)	Wind Farm	GU 500260	0.80%	3.90%	0.90%	3.50%	0.80%	3.40%	1.80%	2.60%	3.40%	4.00%	0.80%	1.80%	3.80%	3.00%	4.80%	3.40%	1.80%	-0.70%	1.60%	0.10%	1.60%	1.10%	2.60%	2.10%	0.976	0.998	2.20%	
Lendrums Bridge (1)	Wind Farm	GU 500220																										0.998		
Mantlin Limited	Wind Farm	GU 500270	-0.50%	3.30%	-0.40%	2.60%	-0.50%	2.80%	0.70%	2.00%	2.50%	3.80%	0.00%	2.10%	3.90%	3.80%	5.10%	5.00%	1.90%	0.20%	1.80%	0.80%	1.80%	1.70%	3.00%	2.70%	0.975	0.995	2.09%	
Snugborough	Wind Farm	GU 500180	-0.50%	3.30%	-0.40%	2.60%	-0.50%	2.80%	0.70%	2.00%	2.50%	3.80%	0.00%	2.10%	3.90%	3.80%	5.10%	5.00%	1.90%	0.20%	1.80%	0.80%	1.80%	1.70%	3.00%	2.70%	0.975	0.995	2.09%	
Tappaghan	Wind Farm	GU 500010	0.80%	3.90%	0.90%	3.50%	0.80%	3.40%	1.80%	2.60%	3.40%	4.00%	0.80%	1.80%	3.80%	3.00%	4.80%	3.40%	1.80%	-0.70%	1.60%	0.10%	1.60%	1.10%	2.60%	2.10%	0.976	0.998	2.20%	
Energia DSU	DSU	DSU_500190																										1.000		
Slieve Divena	Wind Farm	GU 500740																										0.998		
Garves	Wind Farm	GU 500720																										1.011		
Gruig	Wind Farm	GU 500790																										1.011		

KEY: The TLAF % changes are colour coded according to the size of the % change as follows:

DECREASED TLAF

INCREASED TLAF

C.4 Change in ROI TLAFs from 2009 to 2010

Difference Between 2009 and 2010 Draft TLAFs :- Rol																									Average 2009 TLAF	Average 2010 TLAF	Average % Change in TLAF			
Market Participant Name	Unit Id	Transmission Station	kV	January		February		March		April		May		June		July		August		September		October		November		December				
				Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	
Ardnacrusha (ESB)	AA1	Ardnacrusha	110	-4.10%	-4.90%	-3.80%	-4.80%	-3.00%	-4.40%	-4.60%	-4.10%	-3.50%	-3.70%	-4.10%	-3.20%	-5.40%	-3.70%	-6.10%	-4.10%	-3.70%	-1.40%	-2.40%	0.00%	-3.20%	-1.60%	-3.90%	-2.70%	1.014	0.978	-3.60%
Ardnacrusha (ESB)	AA2	Ardnacrusha	110	-4.10%	-4.90%	-3.80%	-4.80%	-3.00%	-4.40%	-4.60%	-4.10%	-3.50%	-3.70%	-4.10%	-3.20%	-5.40%	-3.70%	-6.10%	-4.10%	-3.70%	-1.40%	-2.40%	0.00%	-3.20%	-1.60%	-3.90%	-2.70%	1.014	0.978	-3.60%
Ardnacrusha (ESB)	AA3	Ardnacrusha	110	-4.10%	-4.90%	-3.80%	-4.80%	-3.00%	-4.40%	-4.60%	-4.10%	-3.50%	-3.70%	-4.10%	-3.20%	-5.40%	-3.70%	-6.10%	-4.10%	-3.70%	-1.40%	-2.40%	0.00%	-3.20%	-1.60%	-3.90%	-2.70%	1.014	0.978	-3.60%
Ardnacrusha (ESB)	AA4	Ardnacrusha	110	-4.10%	-4.90%	-3.80%	-4.80%	-3.00%	-4.40%	-4.60%	-4.10%	-3.50%	-3.70%	-4.10%	-3.20%	-5.40%	-3.70%	-6.10%	-4.10%	-3.70%	-1.40%	-2.40%	0.00%	-3.20%	-1.60%	-3.90%	-2.70%	1.014	0.978	-3.60%
Aghada (ESB)	AD1	Aghada	220	-5.40%	-5.90%	-5.50%	-5.30%	-5.20%	-5.30%	-6.30%	-6.70%	-7.30%	-7.12%	-8.25%	-6.86%	-10.25%	-7.30%	-10.00%	-6.84%	-4.68%	-2.47%	-4.30%	-0.35%	-3.65%	-1.34%	-4.80%	-3.11%	1.012	0.955	-5.69%
Aghada PCP (ESB)	AP5	Aghada	110	-5.80%	-6.30%	-5.80%	-6.70%	-5.30%	-6.50%	-6.90%	-6.70%	-7.20%	-8.30%	-6.90%	-13.70%	-9.80%	-13.50%	-9.60%	-10.40%	-6.50%	-10.50%	-5.90%	-9.70%	-6.60%	-10.70%	-8.30%	1.036	0.955	-8.12%	
Arklow Banks (Arklow Energy Ltd.)	ARB	Arklow	110	1.00%	0.20%	0.70%	0.00%	0.00%	0.20%	0.10%	-0.30%	0.10%	0.00%	0.00%	0.00%	0.40%	1.00%	0.70%	0.10%	0.40%	0.00%	0.40%	0.00%	0.40%	0.00%	0.10%	1.008	1.011	0.31%	
Aghada (ESB)	AT1	Aghada	220	-6.20%	-6.50%	-6.30%	-6.90%	-5.40%	-6.60%	-6.90%	-6.60%	-6.90%	-6.70%	-7.60%	-6.20%	-8.40%	-6.10%	-8.30%	-5.80%	-3.30%	-1.60%	-2.50%	0.90%	-2.60%	-0.70%	-3.70%	-2.30%	1.012	0.960	-5.13%
Aghada (ESB)	AT2	Aghada	220	-6.20%	-6.50%	-6.30%	-6.90%	-5.40%	-6.60%	-6.90%	-6.60%	-6.90%	-6.70%	-7.60%	-6.20%	-8.40%	-6.10%	-8.30%	-5.80%	-3.30%	-1.60%	-2.50%	0.90%	-2.60%	-0.70%	-3.70%	-2.30%	1.012	0.960	-5.13%
Aghada (ESB)	AT4	Aghada	220	-6.20%	-6.50%	-6.30%	-6.90%	-5.40%	-6.60%	-6.90%	-6.60%	-6.90%	-6.70%	-7.60%	-6.20%	-8.40%	-6.10%	-8.30%	-5.80%	-3.30%	-1.60%	-2.50%	0.90%	-2.60%	-0.70%	-3.70%	-2.30%	1.012	0.960	-5.13%
Arthurstown Landfill Phase 2 (Irish Power Systems Ltd.)	AR2	Kilteel	110																										1.017	
Arthurstown Landfill Phase 3 (Irish Power Systems Ltd.)	AR3	Kilteel	110																										1.017	
Arthurstown Landfill Phase 1 & 4 (Irish Power Systems Ltd.)	ARX	Kilteel	110	1.20%	0.40%	1.30%	0.60%	0.20%	-0.30%	1.40%	1.00%	0.00%	-0.20%	1.30%	0.90%	2.20%	1.80%	0.60%	0.70%	0.30%	0.90%	0.70%	0.00%	0.30%	0.00%	0.40%	0.40%	1.010	1.017	0.67%
Ratrusan Wind Farm (Bindoo Wind Farm Ltd.)	BD1	Ratrusan	110	1.40%	1.30%	0.20%	1.10%	0.00%	1.10%	0.70%	1.00%	1.30%	1.00%	1.10%	2.40%	1.80%	2.00%	2.00%	1.90%	1.10%	2.10%	0.90%	1.80%	1.30%	2.20%	1.90%	0.998	1.011	1.33%	
Mountain Lodge (Bindoo Wind Farm Ltd.)	BD1	Ratrusan	110	0.40%	1.30%	0.20%	1.10%	0.00%	1.10%	0.70%	1.00%	1.30%	1.00%	1.10%	2.40%	1.80%	2.00%	2.00%	1.90%	1.10%	2.10%	0.90%	1.80%	1.30%	2.20%	1.90%	0.998	1.011	1.33%	
Beale Hill	BE1	Trien	110	-3.20%	-4.40%	-3.00%	-4.40%	-2.00%	-3.90%	-3.40%	-3.30%	-2.40%	-2.80%	-3.00%	-2.30%	-4.40%	-3.30%	-5.30%	-4.00%	-2.60%	-1.20%	-1.50%	0.10%	-2.40%	-1.50%	-2.60%	-2.20%	0.983	0.955	-2.88%
Beam Hill (Beam Wind Ltd.)	BM1	Trillick	110	-3.60%	-3.80%	-4.80%	-3.60%	-3.70%	-2.90%	-3.20%	-3.00%	-1.40%	0.40%	-0.10%	0.60%	-2.10%	-0.80%	-2.50%	-0.60%	-3.50%	-1.30%	-2.00%	-1.30%	-0.50%	-1.10%	-1.10%	-1.00%	0.949	0.930	-1.95%
Boothigh (Boothigh Windfarm Ltd.)	BT1	Boothigh	110	-4.60%	-5.60%	-4.50%	-5.40%	-3.70%	-5.10%	-5.10%	-4.90%	-4.10%	-4.20%	-4.40%	-3.80%	-5.40%	-4.30%	-5.80%	-4.40%	-4.00%	-2.40%	-2.90%	-1.50%	-4.10%	-3.10%	-4.70%	-4.00%	1.015	0.972	-4.25%
Ballywater (Ballywater Windfarms Ltd.)	BW1	Crane	110	-0.50%	-1.30%	-0.90%	-1.70%	-1.50%	-2.20%	-1.80%	-1.90%	-2.10%	-2.30%	-1.00%	-0.90%	0.20%	-0.60%	-0.30%	-0.60%	-1.00%	0.00%	0.30%	-0.50%	1.00%	-0.10%	0.50%	-0.30%	1.028	1.020	-0.77%
Bruree Hydro (Slieveadagh Power Ltd.)	BR1	Charleville	110																										0.968	
Cark Wind Farm	CAR	Latterkeny	110	-2.80%	-3.10%	-3.80%	-2.50%	-3.40%	-2.80%	-3.00%	-2.70%	-1.30%	0.40%	-0.10%	0.40%	-1.90%	-0.80%	-2.30%	-0.80%	-3.20%	-1.60%	-1.80%	-1.00%	-0.60%	-0.90%	-1.00%	-1.00%	0.968	0.950	-1.73%
Coomagearyhy (SWS Kilgarvan Windfarm Ltd.)	CG1	Coomagearyhy	110	-5.80%	-6.30%	-5.70%	-6.60%	-4.80%	-6.20%	-6.50%	-6.10%	-5.80%	-5.70%	-6.40%	-5.00%	-7.90%	-5.60%	-8.20%	-5.90%	-4.90%	-2.70%	-4.10%	-1.30%	-4.60%	-3.00%	-5.30%	-4.20%	1.000	0.946	-5.96%
Coomagearyhy (SWS Kilgarvan Windfarm Ltd.)	CG3	Coomagearyhy	110																										0.946	
Ciahane Wind Farm (Pallas Wind Farm Ltd.)	CJ1	Ciahane	110	-3.40%	-4.70%	-3.20%	-4.60%	-2.20%	-4.20%	-3.80%	-3.80%	-2.90%	-3.20%	-3.40%	-2.70%	-4.90%	-3.60%	-5.80%	-4.30%	-3.00%	-1.50%	-1.90%	0.00%	-2.70%	-1.80%	-3.10%	-2.60%	0.987	0.955	-3.22%
Camsore (Hibernian)	CNS	Wexford	110	-1.30%	-2.20%	-1.60%	-2.60%	-2.30%	-3.10%	-2.40%	-2.80%	-2.80%	-3.00%	-1.70%	-1.60%	-1.80%	-2.00%	-1.90%	-1.90%	-1.40%	-1.40%	-1.90%	-0.80%	-1.00%	-1.40%	-1.70%	1.041	1.023	-1.87%	
Coomachao Wind Farm (Coomachao Wind Farm Ltd.)	CZ1	Garrow	110	-5.50%	-5.70%	-5.60%	-5.90%	-4.60%	-5.60%	-6.40%	-5.50%	-5.60%	-5.40%	-6.10%	-4.70%	-7.30%	-5.20%	-7.70%	-5.50%	-4.80%	-2.30%	-3.80%	-0.60%	-4.60%	-2.40%	-5.40%	-3.70%	0.996	0.946	-6.00%
Cronlea Upper Windfarm Phase 2 (Beams Gaoithe Powe Supply)	CG2	Garrawe	110																										0.981	
Curawee Wind Farm (Saleforce Wind Farm Ltd.)	CB1	Dunmanway	110																										0.981	
Dublin Bay Power (Synnerg)	DB1	Irishtown	220	2.20%	1.30%	1.70%	1.00%	0.90%	0.50%	1.40%	1.00%	0.70%	0.20%	2.20%	1.40%	3.00%	2.30%	2.30%	2.00%	1.20%	1.60%	1.70%	0.80%	1.50%	1.00%	1.20%	1.20%	0.994	1.008	1.43%
Dunmore Windfarm Phase 2 (Dunmore Power Ltd.)	DM2	Drybridge	110																										1.026	
Derrynon (Gort Wind Farms Ltd.)	DY1	Derrynon	110	-3.10%	-4.00%	-2.90%	-3.90%	-2.50%	-3.70%	-3.30%	-3.20%	-2.80%	-3.00%	-3.60%	-2.90%	-4.80%	-4.30%	-4.50%	-3.20%	-3.20%	-1.80%	-1.90%	-1.20%	-2.90%	-2.30%	-3.70%	-3.30%	0.994	0.962	-3.17%
Edenderry (Edenderry Power Ltd.)	ED1	Cushalling	110	-0.10%	-0.90%	1.20%	0.90%	-1.50%	-2.20%	-2.80%	-2.00%	-2.40%	-1.80%	-0.10%	1.20%	1.90%	2.40%	4.40%	-2.10%	-2.20%	0.00%	-2.20%	-2.20%	-2.60%	-2.80%	-0.80%	-0.70%	0.976	0.989	-0.67%
Cliff (ESB)	ER1	Cliff	110	-1.20%	-1.80%	-2.00%	-0.70%	-1.80%	-1.50%	-1.80%	-1.50%	-1.00%	0.70%	-0.50%	0.00%	-0.80%	-0.10%	-1.50%	-0.30%	0.10%	-0.30%	0.10%	0.10%	0.10%	-0.10%	-0.10%	0.10%	0.979	0.973	-0.59%
Cliff (ESB)	ER2	Cliff	110	-1.20%	-1.80%	-2.00%	-0.70%	-1.80%	-1.50%	-1.80%	-1.50%	-1.00%	0.70%	0.50%	-0.50%	0.00%	-0.90%	-0.10%	-1.50%	-1.00%	-0.30%	0.10%	0.10%	-0.10%	-0.10%	0.10%	0.979	0.973	-0.59%	
Cathleen's Fall (ESB)	ER3	Cathleen's Fall	110	-1.00%	-1.50%	-2.00%	-0.80%	-1.70%	-1.50%	-1.60%	-1.50%	-0.20%	1.00%	0.70%	0.30%	-0.50%	0.00%	-0.90%	0.00%	-1.40%	-1.00%	-0.30%	0.20%	0.20%	-0.20%	0.00%	0.10%	0.980	0.974	-0.57%
Cathleen's Fall (ESB)	ER4	Cathleen's Fall	110	-1.00%	-1.50%	-2.00%	-0.80%	-1.70%	-1.50%	-1.60%	-1.50%	-0.20%	1.00%	0.70%	0.30%	-0.50%	0.00%	-0.90%	0.00%	-1.40%	-1.00%	-0.30%	0.20%	0.20%	-0.20%	0.00%	0.10%	0.980	0.974	-0.57%
Flughland Windfarm (SWS Green Energy Ltd.)	FL1	Trillick	110																										0.930	
Gairneane (Gairneane Ltd./Airticity)	GA2	Meath Hill	110	1.90%	3.10%	1.70%	2.70%	1.40%	2.60%	2.20%	2.20%	2.30%	2.50%	2.10%	2.10%	3.60%	3.80%	3.70%	3.00%	1.60%	2.40%	1.10%	2.20%	1.80%	2.50%	2.50%	0.998	1.022	2.37%	
Great Island (Endesa)	GI1	Great Island	110	-2.10%	-2.70%	-2.20%	-3.00%	-2.50%	-3.30%	-2.90%	-2.90%	-3.10%	-3.30%	-2.60%	-2.30%	-3.90%	-2.90%	-4.20%	-2.90%	-3.70%	-1.80%	-3.40%	-2.10%	-3.00%	-2.20%	-3.60%	-2.70%	1.036	1.007	-2.89%
Great Island (Endesa)	GI2	Great Island	110	-2.10%	-2.70%	-2.20%	-3.00%	-2.50%	-3.30%	-2.90%	-2.90%	-3.10%	-3.30%	-2.60%	-2.30%	-3.90%	-2.90%	-4.20%	-2.90%	-3.70%	-1.80%	-3.40%	-2.10%	-3.00%	-2.20%	-3.60%	-2.70%	1.036	1.007	-2.89%
Great Island (Endesa)	GI3	Great Island	220	-1.80%	-2.40%	-1.90%	-2.70%	-2.10%	-2.90%	-2.50%	-2.60%	-2.80%	-3.00%	-2.20%	-2.00%	-3.40%	-2.40%	-3.70%	-2.50%											

Appendix D: Generation & Load Data

In order to provide transparency to market participants the generation and load data used in the derivation of the draft 2010 TLAFs, as provided by the System Operators, is published as a separate Excel spreadsheet file in conjunction with this consultation paper.