



The Single Electricity Market:

Draft Transmission Loss Adjustment Factors

A Consultation Paper

AIP-SEM-07-47

13th March 2007

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I. INTRODUCTION

In June 2005 the Commission for Energy Regulation (the “CER”) and the Northern Ireland Authority for Energy Regulation (the “NIAER”), collectively known as the Regulatory Authorities, published a decision paper titled “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 the Republic of Ireland and Northern Ireland respectively, leading to the publication in May 2006 of a consultation paper². Following consideration of the comments received to the consultation paper, in August 2006 the Regulatory Authorities published a decision paper³ and decided that:

- (i) the methodology for the calculation of TLAFs currently used in the Republic of Ireland should be applied on an all-island basis for the SEM, subject to a number of changes;
- (ii) options for improving transparency will be pursued with the system operators;
- (iii) the definition of daytime and night time will be adjusted to better reflect the profile of system demand;
- (iv) TLAFs will be calculated monthly rather than seasonally;
- (v) the merit of separate weekday/weekend TLAFs will be investigated;
- (vi) the case for grandfathering or phasing-in of all-island TLAFs is no more compelling than is the case for year to year variations in TLAFs for

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

² “The Single Electricity Market: Treatment of Transmission Losses. A Consultation Paper”, 24 May 2006, AIP-SEM-58-06.

³ “The Single Electricity Market: Treatment of Transmission Losses. Decision Paper”, 31 August 2006, AIP/SEM/112/06.

plant already connected to the system in the Republic of Ireland, and hence no such measures will be introduced;

- (vii) no measures will be taken to modify the extent to which losses incurred on the transmission system in one jurisdiction may be recovered from generators connected in the other jurisdiction;
- (viii) forced outages will not be modelled in the calculation of TLAFs;
- (ix) TLAFs will be applied to the tradable quantities of all generators whether directly-connected or embedded, as is the case in the Republic of Ireland presently;
- (x) losses on the distribution systems should be calculated in a manner which reasonably reflects actual distribution losses;
- (xi) it is important that target losses to be recovered through the application of TLAFs should be calculated by parties independent of the Public Electricity Suppliers or other market participants;
- (xii) the algebra for the calculation of Error Supplier Unit volumes in Version 1.0 of the Trading and Settlement Code should be amended;
- (xiii) exempt generators will not be subject to TLAFs;
- (xiv) volatility of TLAFs, and the modelling of wind generation and use of historic data in the calculation of TLAFs will be reviewed during future refinement of the methodology;
- (xv) no special provisions will apply to Moyle;

II. DRAFT TLAFs

Further to the August decision paper, submissions were received by the Regulatory Authorities from EirGrid and SONI detailing the TLAFs they propose to apply to generators directly connected to the transmission systems which they operate, and to generators directly connected to the associated distribution systems. These are shown in the attached appendices for comment.

The TLAFs apply for the period from SEM Go-Live, on 1st November 2007, to 31st December 2007. TLAFs to apply from 1st January 2008 will be published later in 2007.

In accordance with the August 2006 decision paper:

- (a) TLAFs are published for each month;
- (b) Daytime TLAFs apply each day between 07:00 and 22:00;
- (c) forced outages have not been modelled in the calculation of TLAFs;
and
- (d) exempt generators will not be subject to TLAFs.

Furthermore, as stated in the decision paper, options for improving transparency and the merits of separate weekday/weekend TLAFs will be investigated with the system operators for subsequent TLAF calculations.

III. VIEWS INVITED

Comments are invited on these draft TLAFs by 17:00 on Tuesday 3rd April 2007 and should be sent to sdinneen@cer.ie and juliet.corbett@ofregni.gov.uk.

Appendix 1 - Submission of All-Island TLAFs in Republic of Ireland



17th November 2006

Siobhan Dinneen
Commission for Energy Regulation
Plaza House
Tallaght
Dublin 24

Our Ref: R2006881

Re. Submission of All Island TLAFs for November & December 2007

Dear Siobhan,

EirGrid hereby submit a set of transmission loss adjustment factors to apply for the initial 2 months of the SEM (November and December 2007). These have been calculated jointly by EirGrid and SONI in accordance with the Regulatory Authorities' decision *Treatment of Transmission Losses* published on 31 August 2006 (AIP/SEM/112/06).

With your agreement EirGrid would appreciate if the CER would bring these to the attention of market participants.

If there is any matter on which clarity is required, EirGrid would be happy to discuss.

Yours sincerely,

David Healy
Commercial & Regulation
EirGrid

ALL-ISLAND TRANSMISSION LOSS ADJUSTMENT FACTORS 2007

Transmission Station	Bus Voltage kV	Month			
		November		December	
		Day	Night	Day	Night
Ardnacrusha	110	1.019	1.024	1.018	1.019
Aghada	110	1.049	1.051	1.046	1.052
Aghada	220	1.047	1.05	1.044	1.051
Arigna	110	0.995	0.988	0.995	0.988
Agannygal	110	0.995	0.988	0.996	0.99
Ahane	110	1.021	1.022	1.02	1.021
Arklow	110	0.999	1.016	1.001	1.014
Arklow	220	1.003	1.019	1.004	1.017
Athea	110	0.992	0.997	0.991	1
Athlone	110	1.008	0.993	1.009	0.996
Aughinish	110	0.983	0.982	0.981	0.981
Arva	110	1.012	1	1.012	1.001
Athy	110	1.009	1.009	1.008	1.005
Ballywater	110	1.045	1.042	1.044	1.043
Ballycummin	110	0	0	1.016	1.016
Booltiagh	110	1.016	1.017	1.014	1.017
Baltrasna	110	0	0	0.99	1.003
Ballylickey	110	1.059	1.053	1.057	1.056
Ballybeg	110	0.994	1.012	0.998	1.011
Blake	110	0.97	0.97	0.992	0.989
Binbane	110	0.982	0.969	0.978	0.962
Ballydine	110	1.074	1.071	1.072	1.071
Barnahely	110	1.056	1.06	1.053	1.061
Bellacorick	110	1.056	1.037	1.054	1.041
Bandon	110	1.07	1.069	1.066	1.072
Barrymore	110	1.065	1.064	1.062	1.065
Butlerstown	110	1.049	1.055	1.048	1.054
Banoge	110	1.023	1.031	1.024	1.031
Clashavoon	110	1.035	1.039	1.033	1.04
Clashavoon	220	1.032	1.034	1.03	1.035
Clonkeen	110	1.019	1.017	1.016	1.02
Coolroe	110	1.051	1.055	1.048	1.056
Corderry	110	0.995	0.987	0.994	0.987
Cashla	110	0.973	0.978	0.972	0.979
Cashla	220	0.977	0.981	0.976	0.982
Castlebar	110	1.057	1.046	1.055	1.051
Carrigadrohid	110	1.04	1.043	1.038	1.044
Cathleen's Fall	110	0.984	0.974	0.979	0.966
Cahir	110	1.083	1.073	1.081	1.075
Carrickmines	110	0.987	1.007	0.989	1.004
Carrickmines	220	0.984	1.005	0.985	1.002
Cliff	110	0.981	0.974	0.976	0.964

Cloon	110	1.001	0.997	1	0.999
Camus	110	0	0	0.992	1.001
Crane	110	1.045	1.043	1.045	1.044
Carrick On Shannon	110	0.996	0.99	0.996	0.99
College Park	110	0.981	1.005	0.981	1.002
Charleville	110	1.053	1.042	1.048	1.04
Carlow	110	1.017	1.026	1.017	1.022
Cow Cross	110	1.056	1.058	1.052	1.059
Cunghill	110	1.019	1.003	1.018	1.005
Cushaling	110	0.945	0.935	0.953	0.937
Castleview	110	1.054	1.057	1.051	1.058
Coomagearlahy	110	1.018	1.016	1.015	1.018
Corraclassy	110	1.016	0.996	1.014	0.994
Cullenagh	110	1.044	1.05	1.043	1.049
Cullenagh	220	1.039	1.044	1.038	1.043
Charlesland	110	0	0	0.995	1.008
Corduff	110	0.978	1.001	0.979	0.998
Corduff	220	0.977	0.999	0.977	0.996
Dundalk	110	1.003	0.992	1.005	0.995
Drumline	110	1.023	1.025	1.021	1.022
Dungarvan	110	1.06	1.063	1.058	1.063
Doon	110	1.085	1.079	1.083	1.081
Drybridge	110	0.998	1.008	1	1.007
Dunstown	220	0.983	1.002	0.983	0.996
Dunstown	380	0.979	0.997	0.979	0.991
Dunmanway	110	1.062	1.058	1.059	1.061
Derrybrien	110	0.991	0.982	0.992	0.984
Dallow	110	0.997	0.989	1	0.991
Derryiron	110	0.999	1.011	0.999	1.01
Dalton	110	1.045	1.034	1.043	1.038
Dunfirth	110	0.994	1.009	0.995	1.006
Drumkeen	110	0.984	0.959	0.981	0.956
Ennis	110	1.017	1.017	1.016	1.016
Fassaroe East	110	0.991	1.009	0.993	1.007
Fassarow West	110	0.991	1.009	0.993	1.007
Flagford	110	0.995	0.988	0.995	0.989
Flagford	220	0.993	0.988	0.993	0.988
Finglas Urban	110	0.98	1.003	0.98	1
Finglas	220	0.978	1.001	0.978	0.998
Finglas Rural	110	0.98	1.005	0.98	1.002
Gilra	110	0.999	0.992	0.999	0.993
Griffinrath	110	0.987	1.005	0.987	1
Glanlee	110	1.018	1.016	1.015	1.018
Great Island	110	1.043	1.047	1.041	1.046
Great Island	220	1.032	1.039	1.031	1.037
Galway	110	0.987	0.993	0.987	0.995
Golagh	110	0.983	0.966	0.98	0.961

Gortawee	110	1.02	1.002	1.019	1.001
Gorman	110	0.999	1.004	1	1.003
Gorman	220	0.993	0.997	0.994	0.996
Glenlara	110	1.053	1.039	1.048	1.037
Huntstown	220	0.978	1.001	0.977	0.998
Huntstown	220	0.976	0.999	0.976	0.996
Hartnett's Cross	110	1.04	1.043	1.038	1.044
Inniscarra	110	1.049	1.053	1.046	1.053
Inchicore	220	0.984	1.005	0.984	1.001
Ikerrin	110	1.057	1.044	1.058	1.048
Irishtown	220	0.982	1.003	0.983	1
Knockraha	110	1.051	1.053	1.048	1.054
Knockraha	220	1.046	1.049	1.043	1.049
Kilbarry	110	1.06	1.061	1.056	1.062
Kilteel	110	0.995	1.008	0.993	0.997
Kilkenny	110	1.053	1.057	1.052	1.055
Killonan	110	1.021	1.022	1.02	1.021
Killonan	220	1.015	1.016	1.014	1.016
Knockearagh	110	1.014	1.017	1.013	1.021
Kellis	110	1.015	1.025	1.014	1.021
Kellis	220	1.012	1.022	1.011	1.018
Kinnegad	110	0.998	1.011	0.999	1.009
Killotern	110	1.048	1.054	1.046	1.053
Lanesboro	110	0.995	0.974	0.992	0.973
Louth	110	0.991	0.983	0.993	0.986
Louth	220	0.991	0.986	0.993	0.987
Limerick	110	1.017	1.019	1.016	1.017
Lisdrum	110	1.014	0.999	1.015	1.004
Letterkenny	110	0.988	0.96	0.986	0.959
Liberty Street	110	1.06	1.062	1.057	1.064
Liberty Street	110	1.06	1.062	1.057	1.063
Midleton	110	1.057	1.058	1.054	1.059
Meath Hill	110	0.997	0.989	1	0.993
Maynooth	110	0.986	1.003	0.986	0.998
Maynooth	220	0.986	1.004	0.987	0.999
Maynooth	110	0.985	1.003	0.985	0.999
Maynooth	220	0.984	1.001	0.984	0.998
Macroom	110	1.039	1.042	1.037	1.043
Moneteen	110	1.011	1.012	1.01	1.01
Moneypoint	380	0.956	0.969	0.954	0.964
Moneypoint	110	1.018	1.02	1.016	1.02
Moneypoint	220	0.981	0.986	0.982	0.988
Moneypoint	380	0.956	0.97	0.954	0.964
Moneypoint	380	0.98	0.985	0.981	0.987
Marina	110	1.06	1.062	1.057	1.064
Mullingar	110	1.01	1.002	1.009	1.001
Mallow	110	1.062	1.055	1.055	1.051

Moy	110	1.055	1.031	1.053	1.034
Mullagharlin	110	0.999	0.989	1.002	0.992
Meentycat	110	0.981	0.956	0.979	0.954
Monread	110	1	1.008	0.992	0.991
Newbridge	110	1.005	1.007	0.988	0.983
Navan	110	1.005	1.007	1.007	1.006
North Wall	220	0.978	1.002	0.978	0.998
Nenagh	110	1.039	1.037	1.037	1.037
Oughtragh	110	1.017	1.024	1.016	1.028
Oldstreet	220	0.957	0.968	0.956	0.966
Oldstreet	380	0.961	0.975	0.961	0.972
Poolaphuca	110	1.025	1.03	1.025	1.027
Poolbeg	220	0.979	1.002	0.978	0.999
Poolbeg	220	0.985	1.006	0.985	1.002
Portlaoise	110	0.992	0.985	0.992	0.98
Platin	110	0.996	1.008	0.998	1.007
Prospect	220	0.985	0.99	0.985	0.991
Ryebrook	110	0.989	1.009	0.989	1.005
Rathkeale	110	1.002	1.006	1.002	1.007
Richmond	110	0.999	0.977	0.995	0.977
Richmon	110	0.999	0.977	0.995	0.977
Raffeen	110	1.055	1.059	1.052	1.06
Raffeen	220	1.052	1.055	1.049	1.056
Rinawade	110	0.989	1.006	0.989	1.002
Ringaskiddy	110	1.055	1.059	1.052	1.06
Ratrussan	110	1.002	0.986	1.003	0.991
Shannonbridge	110	0.992	0.987	0.995	0.991
Shannonbridge	220	0.997	0.997	0.999	0.999
Shankill	110	1.015	0.998	1.015	1.002
Sligo	110	1.005	0.994	1.004	0.994
Some Hill	110	0.98	0.947	0.978	0.946
Somerset	110	0.993	0.989	0.995	0.992
Shellybanks	220	0.978	1.002	0.978	0.998
Srananagh	110	0.997	0.989	0.996	0.988
Srananagh	220	0.997	0.989	0.996	0.988
Seal Rock	110	0.982	0.981	0.98	0.98
Stratford	110	1.025	1.031	1.025	1.028
Seal Rock	110	0.982	0.981	0.98	0.98
Shellybanks	220	0.982	1.003	0.982	1
Tarbert	110	0.987	0.992	0.987	0.994
Tarbert	220	0.991	0.997	0.991	0.998
Tynagh	220	0.954	0.964	0.955	0.963
Trabeg	110	1.061	1.063	1.057	1.064
Turlough Hill	220	0.982	1.008	0.983	0.997
Tullabrack	110	1.018	1.021	1.016	1.021
Tawnaghmore	110	1.055	1.031	1.053	1.034
Tawnaghmore	110	1.055	1.031	1.053	1.034

Trien	110	0.995	0.999	0.993	1.002
Tralee	110	1.009	1.011	1.008	1.013
Thurles	110	1.081	1.069	1.08	1.073
Thornsberry	110	1.013	1.02	1.013	1.018
Tonroe	110	1.001	0.995	1.001	0.997
Trillick	110	0.981	0.948	0.979	0.947
Tipperary	110	1.063	1.057	1.062	1.057
Waterford	110	1.046	1.052	1.045	1.051
Woodland	220	0.977	0.995	0.977	0.992
Woodland	380	0.973	0.99	0.973	0.987
Whitegate	110	1.051	1.053	1.048	1.054
Wexford	110	1.056	1.048	1.056	1.049

ROI Transmission Loss Adjustment Factors 2007 [All-Island Market]

Transmission-Connected Generation Station	Unit Identifier	Connected at	Month			
			November		December	
			Day	Night	Day	Night
Aghada (ESB)	AD1, AT1, AT2, AT4	Aghada 220 kV	1.047	1.050	1.044	1.051
Aghada PCP (ESB)	AP5	Aghada 110 kV	1.049	1.051	1.046	1.052
Ardnacrusha (ESB)	AA1, AA2, AA3, AA4	Ardnacrusha 110 kV	1.019	1.024	1.018	1.019
Ballywater (Ballywater Windfarms Ltd.)	BW1	Crane 110 kV	1.045	1.043	1.045	1.044
Booltiagh (Booltiagh Windfarm Ltd.)	BT1	Booltiagh 110 kV	1.016	1.017	1.014	1.017
Coomagearlahy (SWS Kilgarvan Windfarm Ltd.)	CG1	Coomagearlahy 110 kV	1.018	1.016	1.015	1.018
Derrybrien (Gort Windfarms Ltd.)	DY1	Agannygal 110 kV	0.995	0.988	0.996	0.990
Dublin Bay Power (Synergen)	DB1	Irishtown 220 kV	0.982	1.003	0.983	1.000
Edenderry (Edenderry Power Ltd.)	ED1	Cushaling 110 kV	0.945	0.935	0.953	0.937
Erne (ESB)	ER1, ER2	Cliff 110 kV	0.981	0.974	0.976	0.964
Erne (ESB)	ER3, ER4	Cathaleen's Fall 110 kV	0.984	0.974	0.979	0.966
Great Island (ESB)	GI1, GI2	Great Island 110 kV	1.043	1.047	1.041	1.046
Great Island (ESB)	GI3	Great Island 220 kV	1.032	1.039	1.031	1.037
Huntstown (Huntstown Power Ltd.)	HNC	Huntstown 220 kV	0.978	1.001	0.977	0.998
Kingsmountain (Brickmount Ltd.)	KGM	Cunghill 110 kV	1.019	1.003	1.018	1.005
Lee (ESB)	LE3	Carrigadrohid 110 kV	1.040	1.043	1.038	1.044
Lee (ESB)	LE1, LE2	Inniscarra 110 kV	1.049	1.053	1.046	1.053
Liffey (ESB)	LI1, LI2, LI4	Pollaphuca 110 kV	1.025	1.030	1.025	1.027
Lough Ree Power (ESB)	LR4	Lanesboro 110 kV	0.995	0.974	0.992	0.973
Marina (ESB)	MRT	Marina 110 kV	1.060	1.062	1.057	1.064
Meentycat (Meentycat Ltd.)	MCT	Meentycat 110 kV	0.981	0.956	0.979	0.954
Moneypoint (ESB)	MP1, MP2, MP3	Moneypoint 380 kV	0.964	0.975	0.963	0.972
North Wall (ESB)	NW5	North Wall 220 kV	0.978	1.002	0.978	0.998
North Wall (ESB)	NW4	North Wall 220 kV	0.979	1.002	0.979	0.999
Poolbeg (ESB)	PB1, PB2, PB3	Poolbeg 220 kV	0.988	1.001	0.987	1.001
Poolbeg (ESB)	PBC	Shellybanks 220 kV	0.981	1.003	0.981	0.999

Rhode PCP (ESB)	RP1, RP2	Derryiron 110 kV	0.999	1.011	0.999	1.010
Seal Rock (Aughinish Alumina)	SK3, SK4	Aughinish 110 kV	0.983	0.982	0.981	0.981
Tarbert (ESB)	TB1, TB2	Tarbert 110 kV	0.987	0.992	0.987	0.994
Tarbert (ESB)	TB3, TB4	Tarbert 220 kV	0.991	0.997	0.991	0.998
Tawnaghmore PCP (ESB)	TP1	Tawnaghmore 110 kV	1.055	1.031	1.053	1.034
Turlough Hill (ESB)	TH1, TH2, TH3, TH4	Turlough Hill 220 kV	0.982	1.008	0.983	0.997
Tynagh CCGT (Tynagh Energy Ltd.)	TYC	Tynagh 220 kV	0.954	0.964	0.955	0.963
West Offaly Power (ESB)	WO4	Shannonbridge 110 kV	0.992	0.987	0.995	0.991
Distribution-Connected Generation Station	Unit Identifier	Connected/Embedded at	Month			
			November		December	
			Day	Night	Day	Night
A & L Goodbody (Bord Gais)	BG4	Not relevant	1.000	1.000	1.000	1.000
A & L Goodbody (Marren Engineering Ltd.)	GBY	Poolbeg 220 kV	0.979	1.002	0.978	0.999
Altagowlan (Moneenatieve Windfarm Ltd.)	AW1	Corderry 110 kV	0.995	0.987	0.994	0.987
Arklow Banks (Arklow Energy Ltd.)	ARB	Arklow 110 kV	0.999	1.016	1.001	1.014
Arthurstown Landfill (Irish Power Systems Ltd.)	ATW	Kilteel 110 kV	0.995	1.008	0.993	0.997
Ballineen (CM Power Ltd.)	CP1	Dunmanway 110 kV	1.062	1.058	1.059	1.061
Ballinlough (Jeroma Windfarms Ltd.)	BH1	Ikerin 110 kV	1.057	1.044	1.058	1.048
Ballinveny (North Tipperary Windpower Ltd.)	BV1	Ikerin 110 kV	1.057	1.044	1.058	1.048
Ballyragget Power (Glanbia Plc.)	BA1	Kilkenny 110 kV	1.053	1.057	1.052	1.055
Beal Hill (Port Finch Ltd.)	BEA	Trien 110 kV	0.995	0.999	0.993	1.002
Black Banks II (Waterfern Ltd.)	BL2	Corderry 110 kV	0.995	0.987	0.994	0.987
Carnsore (Hibernian Wind Power Ltd.)	CNS	Wexford 110 kV	1.056	1.048	1.056	1.049
Carrig (Carrig Windfarm Ltd.)	LK1	Dallow 110 kV	0.997	0.989	1.000	0.991
Carrigeen (Dan Twomey Waterpower Engineering Ltd.)	WAP	Trabeg 110 kV	1.061	1.063	1.057	1.064
Coomatallin (Coomatallin Windfarm Ltd.)	CN1	Dunmanway 110 kV	1.062	1.058	1.059	1.061
Corneen (Ganderoy Ltd.)	CO1	Shankill 110 kV	1.015	0.998	1.015	1.002
Cronalaght (Gineaddirí Gaoithe Teo.)	CM1	Letterkenny 110 kV	0.988	0.960	0.986	0.959
Cronelea Upper (Bearná Gaoithe Teo.)	CE1	Carlow 110 kV	1.017	1.026	1.017	1.022
Cuillalea (Cuillalea Windfarm Ltd.)	CLL	Castlebar 110 kV	1.057	1.046	1.055	1.051

Culliagh (Dedondo Ltd.)	RO1	Letterkenny 110 kV	0.988	0.960	0.986	0.959
Curraghraigue (Aeolus Energy Ltd.)	CGU	Ardnacrusha 110 kV	1.019	1.024	1.018	1.019
Derrigra (Independent Biomass Systems Ltd.)	DGA	Bandon 110 kV	1.070	1.069	1.066	1.072
Dublin Corp (Bord Gais)	BG1	Not relevant	1.000	1.000	1.000	1.000
FMC (Bord Gais)	BG5	Kilbarry 110 kV	1.060	1.061	1.056	1.062
Gartnaneane (Gartnaneane Ltd.)	GAR, GA2	Meath Hill 110 kV	0.997	0.989	1.000	0.993
Geevagh (Guestevoy Ltd.)	CY1	Corderry 110 kV	0.995	0.987	0.994	0.987
Kilbranish (Greenoge Wind Farm Ltd.)	KBS	Crane 110 kV	1.045	1.043	1.045	1.044
KTK Landfill (Greenstar Gas Energy Ltd.)	BTN	Newbridge 110 kV	1.005	1.007	0.988	0.983
Lahanaght Hill (Lahanaght Hill Windfarm Ltd.)	LT1	Dunmanway 110 kV	1.062	1.058	1.059	1.061
Lakeland Dairies (Bord Gais)	BG3	Meath Hill 110 kV	0.997	0.989	1.000	0.993
Largan Hill (Largan Hill Ltd.)	LG1	Tonroe 110 kV	1.001	0.995	1.001	0.997
Liffey (ESB)*	LI5	Not relevant	1.000	1.000	1.000	1.000
Meenacloghspar (Saporito Wind Ltd.)	MS1	Cathaleen's Fall 110 kV	0.984	0.974	0.979	0.966
Meenadreen (Arrakis Ltd.)	LHY	Cathaleen's Fall 110 kV	0.984	0.974	0.979	0.966
Meenanilta (Redwind Energy Ltd.)	MTA, MT2	Letterkenny 110 kV	0.988	0.960	0.986	0.959
Millipore (Bord Gais)	BG2	Cow Cross 110 kV	1.056	1.058	1.052	1.059
Moanmore (Kilrush Energy Ltd.)	MMR	Tullabrack 110 kV	1.018	1.021	1.016	1.021
Moneenatieve (Moneenatieve Windfarm Ltd.)	MV1	Corderry 110 kV	0.995	0.987	0.994	0.987
Mount Eagle (Mount Eagle Windfarm Ltd.)	MG1	Tralee 110 kV	1.009	1.011	1.008	1.013
Raheen Barr (Matrix Energy Partnership)	MXE	Castlebar 110 kV	1.057	1.046	1.055	1.051
Silliot Hill (Irish Power Systems Ltd.)	SIL	Newbridge 110 kV	1.005	1.007	0.988	0.983
Skehanagh (Skehanagh Wind Farm Ltd.)	SG1	Dallow 110 kV	0.997	0.989	1.000	0.991
Sonnagh Old (Corr Na Gaoithe Ltd.)	KST	Somerset 110 kV	0.993	0.989	0.995	0.992
SWS Gneeves Windfarm Ltd.	GN1	Knockearagh 110 kV	1.014	1.017	1.013	1.021
Taurbeg (Taurbeg Ltd.)	TR1	Glenlara 110 kV	1.053	1.039	1.048	1.037
Tursillagh II (Saorgas Ltd.)	TU2	Tralee 110 kV	1.009	1.011	1.008	1.013
Wyeth Nutritionals (Askeaton Power Ltd.)	WAS	Rathkeale 110 kV	1.002	1.006	1.002	1.007

Appendix 2 - Submission of All-Island TLAFs in Northern Ireland



Iain Osborne
NIAER
Queen's House,
14 Queen Street
BELFAST
BT1 6ER

16 November 2006

Dear Iain

Re: Submission of All Island TLAFs for November & December 2007

SONI and EirGrid submit to the Regulatory Authorities (RAs – NIAER & CER) a set of Transmission Loss Adjustment Factors (TLAF) for the final 2 months of 2007 for Northern Ireland market participants (Appendix 1). These have been calculated in accordance with the RAs' decision on the Treatment of Transmission Losses of 31 August 2006.

In addition a set of indicative TLAFs for all nodes on the transmission systems in both jurisdictions has been provided (Appendix 2).

SONI and EirGrid would request that the RAs bring this information to the attention of market participants through publication on their respective websites.

Please contact us if you require any further clarification.

Yours sincerely

A handwritten signature in black ink that reads 'R McCormick'. The signature is written in a cursive style and is positioned above a horizontal line.

Robin McCormick

Copy: Dermot MacCann

Appendix 1

NI Transmission Loss Adjustment Factors 2007 [All-Island Market]						
Transmission-Connected Generation Station	Unit Identifier	Connected at	Month			
			November		December	
			Day	Night	Day	Night
Ballylumford	B4	Ballylumford 275 kV	0.979	0.966	0.982	0.971
Ballylumford	B5	Ballylumford 275 kV	0.979	0.966	0.982	0.971
Ballylumford	B6	Ballylumford 275 kV	0.979	0.966	0.982	0.971
Ballylumford	BGT1	Ballylumford 110 kV	0.975	0.963	0.978	0.969
Ballylumford	BGT2	Ballylumford 110 kV	0.975	0.963	0.978	0.969
Ballylumford	B10	Ballylumford 110 kV	0.975	0.963	0.978	0.969
Ballylumford Combined	B20, B21, B22	Ballylumford 275 kV	0.979	0.966	0.982	0.971
Coolkeeragh	C30	Coolkeeragh 275/110 kV	0.974	0.959	0.976	0.963
Coolkeeragh	CGT8	Coolkeeragh 110 kV	0.974	0.958	0.975	0.962
Kilroot	K1	Kilroot 275 kV	0.980	0.966	0.984	0.971
Kilroot	K2	Kilroot 275 kV	0.980	0.966	0.984	0.971
Kilroot	NGT1	Kilroot 275 kV	0.980	0.966	0.984	0.971
Kilroot	NGT2	Kilroot 275 kV	0.980	0.966	0.984	0.971
Moyle	M	Ballyconnamore 275 kV	0.997	0.989	0.996	0.988

Appendix 2

ALL-ISLAND TRANSMISSION LOSS ADJUSTMENT FACTORS 2007					
Transmission Station	Bus Voltage kV	Month			
		November		December	
		Day	Night	Day	Night
Antrim	110	0.987	0.97	0.991	0.975
Ballylumford	110	0.975	0.965	0.978	0.969
Ballylumford	275	0.979	0.966	0.982	0.971
Ballymena	110	0.995	0.975	0.998	0.98
Banbridge	110	0.999	0.985	1.001	0.989
Ballyvallyagh	110	0.982	0.968	0.985	0.973
Ballynahinch	110	1.004	0.983	1.007	0.989
Carmoney	110	0.991	0.976	0.994	0.982
Castlereagh	110	0.994	0.976	0.996	0.981
Castlereagh	275	0.99	0.974	0.992	0.978
Belast Central	110	0.995	0.978	0.998	0.982
Coleraine	110	1.003	0.975	1.004	0.981
Coolkerragh	110	0.974	0.958	0.975	0.962
Coolkerragh	275	0.974	0.96	0.976	0.964
Creagh	110	0.979	0.965	0.983	0.969
Cregagh	110	0.995	0.977	0.997	0.982
Donegal	110	0.995	0.977	0.998	0.982
Drumnakelly	110	0.996	0.982	0.998	0.985
Dungannon	110	1	0.982	1.001	0.985
Eden	110	0.986	0.973	0.989	0.978
Enniskillen	110	1.025	0.992	1.025	0.99
Finaghy	110	0.994	0.976	0.997	0.981
Glengomley	110	0.989	0.971	0.993	0.977
Hannahstown	110	0.993	0.976	0.996	0.981
Hannahstown	275	0.988	0.973	0.991	0.977
Kells	110	0.985	0.968	0.988	0.973
Kells	275	0.982	0.968	0.985	0.972
Kilroot	275	0.98	0.966	0.984	0.971
Knock	110	0.995	0.977	0.997	0.982
Larne	110	0.983	0.969	0.986	0.974
Limavady	110	0.994	0.969	0.995	0.975
Lisburn	110	0.996	0.978	0.999	0.983
Lisaghmore	110	0.977	0.961	0.979	0.965
Loguestown	110	1.006	0.977	1.007	0.983
Magherafelt	275	0.983	0.97	0.986	0.974
Moyle	275	0.979	0.966	0.982	0.97
Newtownards	110	1.001	0.981	1.003	0.986
Newry	110	1.011	0.992	1.013	0.997
Norfil	110	0.987	0.97	0.99	0.975
Omagh	110	1.007	0.981	1.007	0.982
Rathgael	110	1.004	0.983	1.007	0.988
Rosebank	110	0.994	0.977	0.997	0.981
Strabane	110	0.985	0.964	0.985	0.967
Tandragee	110	0.993	0.98	0.995	0.984
Tandragee	275	0.99	0.977	0.992	0.981
Coal Island	110	0.992	0.977	0.993	0.98
Coal Island	275	0.988	0.974	0.99	0.978
Warringstown	110	0.997	0.983	0.999	0.987
West Belfast Central	110	0.998	0.979	1.001	0.984