

Proposed 2015/16 Generator Transmission Use of System (GTUoS) Tariffs

7th August 2015



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Introduction

This document outlines the proposed Generator Transmission Use of System (GTUoS) charges for both Ireland and Northern Ireland as calculated by the Transmission System Operators (TSOs) for the 2015/2016 tariff year.

The proposed charges are based upon the methodology as consulted on and approved by the Regulatory Authorities (RAs); the Commission for Energy Regulation (CER) in Ireland and the Utility Regulator in Northern Ireland.

The methodology used to calculate the 2015/2016 tariffs is the same as that used for the calculation of the 2014/2015 tariffs. The assumptions used in the GTUoS calculation are based on publicly available information on connected and contracted generation and associated transmission reinforcements. Interconnector flows and conventional generation fuel prices are based on the Dispatch Balancing Costs model.

Total Revenue Requirement and GTUoS

The revenue requirement is approved annually by the respective regulator in order to ensure recovery of all costs associated with the operation, development and planning of the transmission network in a particular tariff year. The 2015/2016 GTUoS tariffs are based on a revenue requirement of €74,098,493. The overall revenue requirement for GTUoS has increased by 9.4% relative to the revenue requirement for 2014/2015 tariffs (€67,741,953). The main reason for this increase in the GTUoS revenue requirement is due to an increase in the approved revenue for Northern Ireland. It also includes a change in the €/£GB exchange rate.

GTUoS tariffs account for the recovery of 25% of network costs with the remainder of the costs being recovered through suppliers/demand users.

The table in Appendix 1 indicates the proposed tariffs for 2015/2016.

Proposed 2015/16 Tariffs

In line with the draft Grid Development Strategy that has been published¹, there is a need to develop the electricity network to ensure security of supply into the future. There is an associated cost with this transmission investment which is levied on users of the transmission system via transmission use of system charges for demand and generator customers. The regulatory approved methodology² for GTUoS charging arrangements have been designed to link the system usage with the transmission investment costs for different parts of the network. Each Generator's TUoS charge should then be reflective of transmission investment costs linked to its own use of the system.

GTUoS is made up of postage stamp and locational components with the postage stamp portion accounting for 70% of the total GTUoS revenue and 30% for the locational element.

The following factors that vary year on year have a major impact on the locational aspect of the tariffs:

- Revenue Requirement
- Interconnector flows
- Level of Generation and the contribution of each generator to the direction of flows on each network reinforcement
- Planned Network development and associated costs
- Power flows (which depend on network configuration and dispatch)

The 2015/16 tariffs are generally higher than the 2014/15 tariffs. A key factor influencing the majority of tariff increases in 2015/16 is the increased revenue requirement.

¹ <http://www.eirgrid.com/yourgridyourviews/draftstrategy/>

² <http://www.allislandproject.org/GetAttachment.aspx?id=91fcf973-e74f-438d-8f08-d951dd0df291>
<http://www.allislandproject.org/GetAttachment.aspx?id=fe8153f0-6599-4ffb-89aa-9316292009c2>

Other items of note:

- There are reduced interconnector imports (EWIC and Moyle) due to higher prices in GB and the expected outage of the Moyle interconnector. These reduced interconnector imports lead to increased generator output on the system and resultant changed network usage and flows.
- The flows between Ireland and Northern Ireland are predominantly in the South – North direction which leads to relatively higher tariffs in Ireland.

The tariffs tend to be higher in regions which are remote from large demand centres namely in the North West and the South West of Ireland. GTUoS Tariffs tend to be lower around the East, the North-East of Ireland and Northern Ireland. This trend has been further augmented by reduced imports from Great Britain via the EWIC and Moyle interconnectors and resulting increased flows from remote generation sources in the Northwest, West and South west of Ireland.

The highest tariff levels are in the North West and South West of Ireland. This is consistent with the parts of the network that have a large amount of developments built/planned.

For the North West region, the tariffs have increased due to a combination of:

- the increased revenue requirement;
- an increase in generation in the North West region;
- planned network development in the area;
- a reduction in EWIC and Moyle interconnector imports.

For the South West region, the tariffs have increased due to a combination of:

- the increased revenue requirement;
- planned network development in the area;
- a reduction in EWIC and Moyle interconnector imports which is supplied from these regions.

The tariffs for Northern Ireland wind generators have increased due to reduced Moyle imports and increased Northern Ireland wind generation.

Analysis of tariffs

The maximum, minimum and overall range of tariffs is shown in Table 1 below. The postage stamp part of the tariff has increased (due to increased revenue recovery).

Table 1

	15/16 Tariffs	14/15 Tariffs
Max tariff (€/kW)	€15.0828	€12.0629
Minimum tariff (€/kW)	€3.4909	€3.6197
Range (€/kW)	€11.5919	€8.4432
Postage stamp	€4.3817	€4.0693

The change in the weighted average tariff from last year's tariffs is shown in Table 2 below.

Table 2

Weighted average*	15/16	14/15	% difference
All-Island	€6.2616	€5.8133	8%
Ireland average	€7.0414	€6.4313	9%
Northern Ireland average	€3.8108	€3.9057	-2%

Note: Weighted average = total GTUoS revenue / total chargeable MWs

Contact

If you have any comments or queries on the tariffs please contact the following by 21st August 2015:

Raymond Skillen at Raymond.Skillen@soni.ltd.uk

Appendix 1: Proposed Tariffs for 2015/2016

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Ireland Transmission Connected Non-Wind						
Aghada / Longpoint	Aghada	AD1, AT1, AT2, AT4, AD2	959.00	959.00	€717.3833	€8.6086
Ardnacrusha	Ardnacrusha	AA1, AA2, AA3, AA4	86.00	86.00	€621.3583	€7.4563
Seal Rock	Aughinish	SK3, SK4	130.00	130.00	€588.7583	€7.0651
Irishtown	Dublin Bay Power	DB1	415.00	415.00	€475.2167	€5.7026
Cushaling	Edenderry Power	ED1	121.50	121.50	€563.6333	€6.7636
Cushaling	Edenderry Peaker	ED3, ED5	116.00	116.00	€563.6000	€6.7632
Cathleen's Fall	Erne	ER3, ER4	45.00	45.00	€902.7917	€10.8335
Cliff	Erne	ER1, ER2	20.00	20.00	€902.7917	€10.8335
Glanagow	Whitegen	WG1	445.00	445.00	€625.7833	€7.5094
Great Island 220kV	Great Island	GI4	431.00	431.00	€495.2833	€5.9434
Huntstown	Huntstown 1	HNC	352.00	352.00	€487.0667	€5.8448
Corduff	Huntstown 2	HN2	412.00	412.00	€487.7750	€5.8533
Lanesboro	Lough Ree Power	LR4	94.00	94.00	€460.6500	€5.5278
Carrigadrohid	Lee	LE3	8.00	8.00	€655.4167	€7.8650
Inniscarra	Lee	LE1, LE2	19.00	19.00	€582.1833	€6.9862
Pollaphuca	Liffey	LI1, LI2, LI3, LI4	34.18	34.18	€458.6167	€5.5034
Marina	Marina	MRT	85.00	85.00	€563.7250	€6.7647
Moneypoint	Moneypoint	MP1, MP2, MP3	862.50	862.50	€593.7750	€7.1253
Northwall 220kV	Northwall	NW4, NW5	227.00	227.00	€486.5083	€5.8381
Shellybanks	Poolbeg	PB4, PB5, PB6	460.00	460.00	€486.3000	€5.8356
Derryiron	Rhode	RH1, RH2	103.60	103.60	€444.7750	€5.3373

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Tarbert 110kV	Tarbert	TB1, TB2	108.00	108.00	€527.4333	€6.3292
Tarbert 220kV	Tarbert	TB3, TB4	481.40	481.40	€527.4333	€6.3292
Turlough Hill	Turlough Hill	TH1, TH2, TH3, TH4	292.00	292.00	€486.9667	€5.8436
Tynagh	Tynagh	TYC	404.00	404.00	€549.6250	€6.5955
Shannonbridge	West Offaly Power	WO4	141.00	141.00	€514.4417	€6.1733
Ireland Transmission Connected Wind						
Station	Name					
Athea	Athea		34.35	34.35	€755.4083	€9.0649
Boggeragh	Boggeragh		57.00	57.00	€646.6167	€7.7594
Boggeragh	Boggeragh 2		47.70	47.70	€646.6167	€7.7594
Booltiagh	Booltiagh		31.45	31.45	€636.2250	€7.6347
Castledockrell	Castledockrell		41.4	41.40	€529.5917	€6.3551
Coomagearlahy	Coomagearlahy		81	81.00	€804.4500	€9.6534
Crane	Ballywater		42	42.00	€401.4500	€4.8174
Cunghill	Kingsmountain		34.8	34.80	€799.9333	€9.5992
Derrybrien	Derrybrien		59.5	59.50	€544.2417	€6.5309
Dromada	Dromada		28.5	28.50	€755.4083	€9.0649
Garrow	Coomacheo		59.225	59.23	€813.9083	€9.7669
Garvagh	Garvagh		48	48.00	€499.3750	€5.9925
Glanlee	Glanlee		29.8	29.80	€804.4583	€9.6535
Golagh	Golagh		15	15.00	€1,064.8583	€12.7783
Kill Hill	Kill Hill		36	36.00	€601.3083	€7.2157
Knocknagoshel	Cloghboola 1		56	56.00	€655.4417	€7.8653
Lisheen	Lisheen		59	59.00	€648.8583	€7.7863

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Meentycat	Meentycat		84.96	84.96	€1,256.9000	€15.0828
Mount Lucas	Mount Lucas		79.2	79.20	€471.1417	€5.6537
Mulreavy	Mulreavy		95.25	95.25	€1,063.5667	€12.7628
Clahane	Clahane		37.8	37.80	€736.0667	€8.8328
Clahane	Clahane 2		13.8	13.80	€736.0667	€8.8328
Ratrussan	Mountain Lodge		30.62	30.62	€365.1417	€4.3817
Ratrussan	Ratrussan		48	48.00	€365.1417	€4.3817
Sliabh Bawn	Sliabh Bawn		58	58.00	€460.6500	€5.5278
Woodhouse	Woodhouse		23.28	23.28	€501.0167	€6.0122
Ireland Distribution Connected						
Ardnacrusha	Knockastanna		7.5	2.50	€621.4167	€7.4570
Arklow	Arklow Bank		25.2	20.20	€439.8833	€5.2786
Arklow	Ballycumber (1)		18	13.00	€439.8833	€5.2786
Arklow	Raheenleagh (1)		36.5	31.50	€439.8833	€5.2786
Ballylickey	Kealkil		8.5	3.50	€493.1167	€5.9174
Ballylickey	Glanda Commons		39.45	34.45	€493.1167	€5.9174
Barrymore	Dairygold Mitchelstown		8.55	3.55	€543.0917	€6.5171
Barrymore	Barranafaddock (1)		32.4	27.40	€543.0917	€6.5171
Bellacorick	AMETS Belmullet (1)		10	5.00	€543.0917	€6.5171
Bellacorick	Bellacorick 1		6.45	1.45	€737.1083	€8.8453
Binbane	Corkermore		9.99	4.99	€771.1583	€9.2539
Binbane	Killin Hill		6	1.00	€771.1583	€9.2539
Binbane	Loughderryduff		7.65	2.65	€771.1583	€9.2539
Binbane	Meenachullalan		11.9	6.90	€771.1583	€9.2539

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Boggeragh	Carrigcannon		20	15.00	€646.6167	€7.7594
Carlow	Gortahile		21	16.00	€458.6083	€5.5033
Castlebar	Raheen Barr 1		18.7	13.70	€599.0583	€7.1887
Castlebar	Raheen Barr 2		8.5	3.50	€599.0583	€7.1887
Cathaleen's Fall	Spaddan (1)		17.5	12.50	€902.9083	€10.8349
Cauteen	Garracummer		36.9	31.90	€618.2000	€7.4184
Cauteen	Glencarbry (1)		33	28.00	€618.2000	€7.4184
Cauteen	Glenough		33	28.00	€618.2000	€7.4184
Cauteen	Holyford		9	4.00	€618.2000	€7.4184
Charleville	Ballyhoura (1)		18.3	13.30	€578.0917	€6.9371
Knocknagoshel	Cloghanaleskirt (1)		12.55	7.55	€655.4417	€7.8653
Knocknagoshel	Dromadda More (1)		20	15.00	€655.4417	€7.8653
Corderry	Altagowlan		7.65	2.65	€499.3500	€5.9922
Corderry	Black Banks 2		6.8	1.80	€499.3500	€5.9922
Corderry	Tullynamoyle		9	4.00	€499.3500	€5.9922
Crory	Ballycadden		24.212	19.21	€529.5917	€6.3551
Crory	Gibbet Hill		14.8	9.80	€529.5917	€6.3551
Crory	Knocknalour		8.95	3.95	€529.5917	€6.3551
Dalton	Magheramore (1)		40.8	35.80	€546.6417	€6.5597
Drybridge	Meath Waste-Energy		17.00	12.00	€451.4917	€5.4179
Dunmanway	Barrboy (1)		7.80	2.80	€493.1167	€5.9174
Dunmanway	Carbery Milk Products CHP		6.00	1.00	€493.1167	€5.9174
Dunmanway	Coomatallin		5.95	0.95	€493.1167	€5.9174
Dunmanway	Milane Hill		5.94	0.94	€493.1167	€5.9174

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Garrow	Caherdowney		10	5.00	€813.9083	€9.7669
Glenlara	Dromdeeveen		27	22.00	€627.8750	€7.5345
Glenlara	Taubeg		26	21.00	€578.0917	€6.9371
Glenree	Carrowleagh		34.15	29.15	€774.6667	€9.2960
Ikerrin	Monaincha Bog		35.95	30.95	€691.7167	€8.3006
Inchicore	Guinness CHP		8.075	3.08	€474.1667	€5.6900
Kilteel	Arthurstown LFG		9.78	4.78	€495.3583	€5.9443
Knockacummer	Knockacummer		87	82.00	€627.8750	€7.5345
Knockearagh	Gneeves		9.35	4.35	€786.7667	€9.4412
Knockearagh	WEDCross Wind Farm and Adambridge CHP		7.5	2.50	€786.7667	€9.4412
Letterkenny	Cark		15	10.00	€1,249.0917	€14.9891
Letterkenny	Culliagh		11.88	6.88	€1,249.0917	€14.9891
Lisheen	Bruckana		39.6	34.60	€648.8583	€7.7863
Macroom	Bawnmore		24	19.00	€649.8333	€7.7980
Macroom	Garranereagh		8.75	3.75	€649.8333	€7.7980
Meath Hill	Mullananalt		7.5	2.50	€426.4083	€5.1169
Meath Hill	Gartnaneane		10.5	5.50	€426.4083	€5.1169
Moy	Lackan		6	1.00	€761.8667	€9.1424
Navan	Shamrock Renewable Fuels		13	8.00	€430.7333	€5.1688
Oughtragh	Knockaneden		9	4.00	€767.1583	€9.2059
Portlaoise	Lisdowney (1)		9.2	4.20	€472.5667	€5.6708
Rathkeale	Grouse Lodge		15	10.00	€582.5833	€6.9910

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Rathkeale	Rathcahill		12.5	7.50	€582.5833	€6.9910
Reamore	Knocknagoum		44.35	39.35	€757.3417	€9.0881
Reamore	Muingnaminnane		15.3	10.30	€757.3417	€9.0881
Salthill	Leitir Guingaid		40.9	35.90	€405.1000	€4.8612
Sligo	Carrickeeney		7.65	2.65	€765.7417	€9.1889
Sligo	Faughary		6	1.00	€765.7417	€9.1889
Somerset	Sonnagh Old		7.65	2.65	€500.4167	€6.0050
Sorne Hill	Flughland		9.2	4.20	€1,248.8833	€14.9866
Sorne Hill	Sorne Hill		38.9	33.90	€1,248.8833	€14.9866
Tawnaghmore	Mayo Renewable Power		49	44.00	€761.8583	€9.1423
Tawnaghmore	Tawnaghmore Peaker		104	99.00	€761.7833	€9.1414
Tonroe	Largan Hill		5.94	0.94	€450.9000	€5.4108
Tralee	Ballincollig Hill		15	10.00	€757.3417	€9.0881
Tralee	Mount Eagle 1		5.1	0.10	€757.3417	€9.0881
Tralee	Tursillagh 1		15	10.00	€757.3417	€9.0881
Tralee	Tursillagh 2		6.8	1.80	€757.3417	€9.0881
Trien	Ballagh (1)		9	4.00	€721.2500	€8.6550
Trien	Knockawarriga 1		22.5	17.50	€721.2500	€8.6550
Trien	Tournafulla 2		17.2	12.20	€721.2500	€8.6550
Trien	Tournafulla 1		7.5	2.50	€721.2500	€8.6550
Trillick	Beam Hill 1		14	9.00	€1,248.9083	€14.9869
Trillick	Drumlough Hill 2		9.99	4.99	€1,248.9083	€14.9869
Tullabrack	Moanmore 1		12.6	7.60	€652.2417	€7.8269
Tullabrack	Tullabrack (1)		13.8	8.80	€652.2417	€7.8269
Waterford	Ballymartin		14.28	9.28	€428.8333	€5.1460

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Wexford	Carnsore		11.90	6.90	€368.5833	€4.4230
Wexford	Richfield		27	22.00	€368.5833	€4.4230
NI Transmission Connected						
Ballylumford	Ballylumford GA		152.00	152.00	€306.7333	€3.6808
Ballylumford	Ballylumford GB		152.00	152.00	€306.7333	€3.6808
Ballylumford	Ballylumford GC		175.00	175.00	€306.7333	€3.6808
Ballylumford	Ballylumford GD		98.40	98.40	€308.7250	€3.7047
Ballylumford	Ballylumford GT7		58.00	58.00	€308.7333	€3.7048
Ballylumford	Ballylumford GT8		58.00	58.00	€308.7333	€3.7048
Ballylumford	Ballylumford ST4		170.00	170.00	€306.7417	€3.6809
Ballylumford	Ballylumford ST5		170.00	170.00	€306.7417	€3.6809
Ballylumford	Ballylumford ST6		170.00	170.00	€306.7417	€3.6809
Coolkeeragh	Coolkeeragh GT8		53.00	53.00	€272.5333	€3.2704
Coolkeeragh	Coolkeeragh C30 ST		147.00	147.00	€270.3000	€3.2436
Coolkeeragh	Coolkeeragh C30 GT		266.00	266.00	€290.8750	€3.4905
Kilroot	Kilroot 1		240.00	240.00	€307.0083	€3.6841
Kilroot	Kilroot 2		240.00	240.00	€307.0083	€3.6841
Kilroot	Kilroot GT1		29.00	29.00	€307.0083	€3.6841
Kilroot	Kilroot GT2		29.00	29.00	€307.0083	€3.6841
Kilroot	Kilroot GT3		42.00	42.00	€307.0167	€3.6842
Kilroot	Kilroot GT4		42.00	42.00	€307.0167	€3.6842
Slievekirk	Slievekirk		73.60	73.60	€365.1417	€4.3817
NI Distribution Connected						
Aghyoule	Slieve Rushen2		54.00	49.00	€393.2167	€4.7186

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Aghyoule	Snugborough		13.50	8.50	€393.2167	€4.7186
Ballymena	Brackagh Quarry		6.00	1.00	€365.1417	€4.3817
Ballymena	Corkey		5.00	0.00	€365.1417	€4.3817
Carnmoney	Carn Hill		13.80	8.80	€365.1417	€4.3817
Coleraine	Dunbeg		42.00	37.00	€365.1417	€4.3817
Coleraine	Dunmore		21.00	16.00	€365.1417	€4.3817
Coleraine	Garves		15.00	10.00	€365.1417	€4.3817
Coleraine	Gruig		25.00	20.00	€365.1417	€4.3817
Coleraine	Rigged Hill		5.00	0.00	€365.1417	€4.3817
Coolkeeragh	Lishally Power Station (Maydown Biomass)		17.60	12.60	€270.2917	€3.2435
Coolkeeragh	Monnaboy		12.00	7.00	€365.1417	€4.3817
Dungannon	Crockagarran		18.00	13.00	€365.1417	€4.3817
Enniskillen	Callagheen		17.80	12.80	€393.2167	€4.7186
Enniskillen	Ora More		15.00	10.00	€393.2167	€4.7186
Killymallaght	Carrickatane		20.70	15.70	€365.1417	€4.3817
Larne	Elliot's Hill		5.00	0.00	€365.1417	€4.3817
Larne	Wolf Bog		10.00	5.00	€365.1417	€4.3817
Limavady	Altahullion		26.00	21.00	€365.1417	€4.3817
Limavady	Altahullion 2		11.70	6.70	€365.1417	€4.3817
Lisaghmore	Curryfree		15.00	10.00	€365.1417	€4.3817
Loguestown	Cloonty		12.00	7.00	€365.1417	€4.3817
Lisburn	Contour Global		12.08	7.08	€290.9083	€3.4909
Magherakeel	Church Hill		18.40	13.40	€393.2250	€4.7187
Magherakeel	Crigshane		32.20	27.20	€393.2250	€4.7187

Station	Generation Facility	Units	Contracted Maximum Export Capacity (MW)	Chargeable Maximum Export Capacity (MW)	Network Capacity Charge Rate €/MW/month	Equivalent €/kW/year
Magherakeel	Seegronan		18.00	13.00	€393.2250	€4.7187
Magherakeel	Thornog		20.00	15.00	€393.2250	€4.7187
Magherakeel	Tievenameenta		34.50	29.50	€393.2250	€4.7187
Mid-Antrim	Long Mountain		27.60	22.60	€365.1417	€4.3817
Mid-Antrim	Glenbuck		9.20	4.20	€365.1417	€4.3817
Omagh	Bessybell		5.00	0.00	€423.0917	€5.0771
Omagh	Bessybell2		9.00	4.00	€423.0917	€5.0771
Omagh	Hunters Hill		20.00	15.00	€423.0917	€5.0771
Omagh	Lendrum's Bridge		13.20	8.20	€423.0917	€5.0771
Omagh	Screggagh		20.00	15.00	€423.0917	€5.0771
Omagh	Tappaghan		28.50	23.50	€423.0917	€5.0771
Omagh	Slieve Divena 1		30.00	25.00	€423.0917	€5.0771
Strabane	Bin Mountain		9.00	4.00	€365.1417	€4.3817
Strabane	Lough Hill		7.80	2.80	€365.1417	€4.3817
Strabane	Owenreagh		5.50	0.50	€365.1417	€4.3817
Strabane	Owenreagh2		5.10	0.10	€365.1417	€4.3817
	AGU		74.00	69.00	€365.0083	€4.3801
Aghyoule	Molly Mountain		15.00	10.00	€393.2167	€4.7186