

1617 SINGLE ELECTRICITY MARKET APPROVED TRANSMISSION LOSS ADJUSTMENT FACTORS - MARKET PARTICIPANTS

Market Participant - Transmission Connected	Unit ID TSO	GU_ID	Transmission Station	kv	Month																											
					October		November		December		January		February		March		April		May		June		July		August		September					
					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 1 Generator Unit	AA1	GU_400200	ARDNACRU	110	0.981	0.978	0.978	0.976	0.981	0.976	0.980	0.974	0.979	0.974	0.980	0.976	0.977	0.978	0.982	0.981	0.985	0.980	0.984	0.978	0.985	0.980	0.985	0.981				
Ardnacrusha 2 Generator Unit	AA2	GU_400201	ARDNACRU	110	0.981	0.978	0.978	0.976	0.981	0.976	0.980	0.974	0.979	0.974	0.980	0.976	0.977	0.978	0.982	0.981	0.985	0.980	0.984	0.978	0.985	0.980	0.985	0.981				
Ardnacrusha 3 Generator Unit	AA3	GU_400202	ARDNACRU	110	0.981	0.978	0.978	0.976	0.981	0.976	0.980	0.974	0.979	0.974	0.980	0.976	0.977	0.978	0.982	0.981	0.985	0.980	0.984	0.978	0.985	0.980	0.985	0.981				
Ardnacrusha 4 Generator Unit	AA4	GU_400203	ARDNACRU	110	0.981	0.978	0.978	0.976	0.981	0.976	0.980	0.974	0.979	0.974	0.980	0.976	0.977	0.978	0.982	0.981	0.985	0.980	0.984	0.978	0.985	0.980	0.985	0.981				
Aghada Generator Unit	AD1	GU_400180	AGHADA	220	0.975	0.973	0.967	0.969	0.977	0.972	0.973	0.968	0.971	0.968	0.969	0.967	0.967	0.971	0.977	0.975	0.983	0.976	0.982	0.975	0.980	0.975	0.977	0.973				
AGHADA CT11 Generator Unit	AT1	GU_400181	AGHADA_B	220	0.975	0.973	0.967	0.969	0.977	0.972	0.973	0.968	0.971	0.968	0.969	0.967	0.967	0.971	0.977	0.975	0.983	0.976	0.982	0.975	0.980	0.975	0.977	0.973				
AGHADA CT12 Generator Unit	AT2	GU_400182	AGHADA_B	220	0.975	0.973	0.967	0.969	0.977	0.972	0.973	0.968	0.971	0.968	0.969	0.967	0.967	0.971	0.977	0.975	0.983	0.976	0.982	0.975	0.980	0.975	0.977	0.973				
AGHADA CT14 Generator Unit	AT4	GU_400183	AGH_AT14	220	0.975	0.973	0.967	0.969	0.977	0.972	0.973	0.968	0.971	0.968	0.969	0.967	0.967	0.971	0.977	0.975	0.983	0.976	0.982	0.975	0.980	0.975	0.977	0.973				
ESB Arklow Bank	ARB	GU_401020	ARKLOW	110	0.997	0.995	0.993	0.992	0.995	0.993	0.992	0.990	0.991	0.990	0.991	0.990	0.992	0.991	0.992	0.993	0.998	0.996	0.998	0.997	0.999	0.997	0.992	0.993				
Athea Wind Farm	AH1	GU_401380	ATHEA	110	0.975	0.973	0.971	0.972	0.975	0.972	0.974	0.970	0.973	0.970	0.973	0.970	0.972	0.976	0.976	0.978	0.975	0.977	0.974	0.979	0.976	0.977	0.976	0.976				
Sealrock 3 Generator Unit	SK3	GU_400120	AUGHINIS	110	0.965	0.964	0.963	0.964	0.965	0.963	0.965	0.961	0.964	0.961	0.965	0.962	0.962	0.962	0.967	0.966	0.968	0.965	0.967	0.964	0.970	0.967	0.977	0.975				
Sealrock 4 Generator Unit	SK4	GU_400121	AUGHINIS	110	0.965	0.964	0.963	0.964	0.965	0.963	0.965	0.961	0.964	0.961	0.965	0.962	0.962	0.962	0.967	0.966	0.968	0.965	0.967	0.964	0.970	0.967	0.977	0.975				
Booltiagh Windfarm	BT1	GU_401720	BOOLTIAG	110	0.979	0.977	0.977	0.977	0.980	0.976	0.980	0.975	0.979	0.975	0.979	0.975	0.975	0.975	0.979	0.979	0.980	0.977	0.979	0.976	0.981	0.978	0.981	0.979				
Booltiagh 2 Wind Farm	BT2	GU_401730	BOOLTIAG	110	0.979	0.977	0.977	0.977	0.980	0.976	0.980	0.975	0.979	0.975	0.979	0.975	0.975	0.975	0.979	0.979	0.980	0.977	0.979	0.976	0.981	0.978	0.981	0.979				
Ballybane Generator Unit	BA1	GU_400650	BALLYLIC	110	0.976	0.968	0.971	0.966	0.977	0.968	0.975	0.966	0.975	0.966	0.973	0.965	0.968	0.967	0.975	0.970	0.979	0.971	0.979	0.969	0.977	0.969	0.976	0.969				
Curraghmore Hydro Plant	CM1	GU_401200	BALLYLIC	110	0.976	0.968	0.971	0.966	0.977	0.968	0.975	0.966	0.975	0.966	0.973	0.965	0.968	0.967	0.975	0.970	0.979	0.971	0.979	0.969	0.977	0.969	0.976	0.969				
Ballybane Wind Farm Phase 2	BA2	GU_401790	BALLYLIC	110	0.976	0.968	0.971	0.966	0.977	0.968	0.975	0.966	0.975	0.966	0.973	0.965	0.968	0.967	0.975	0.970	0.979	0.971	0.979	0.969	0.977	0.969	0.976	0.969				
Airoshin Generator Unit	MC1	GU_400610	BINBANE	110	0.985	0.979	0.989	0.981	0.985	0.979	0.987	0.982	0.989	0.984	0.991	0.985	0.985	0.980	0.983	0.978	0.983	0.974	0.983	0.974	0.981	0.974	0.983	0.975				
Clady Generating Station	CU1	GU_401190	BINBANE	110	0.985	0.979	0.989	0.981	0.985	0.979	0.987	0.982	0.989	0.984	0.991	0.985	0.985	0.980	0.983	0.978	0.983	0.974	0.983	0.974	0.981	0.974	0.983	0.975				
Barranafadock Windfarm	BF1	GU_401810	BARRYMOR	110	0.981	0.977	0.975	0.974	0.983	0.977	0.979	0.973	0.978	0.973	0.977	0.972	0.975	0.975	0.982	0.979	0.988	0.980	0.987	0.979	0.986	0.979	0.982	0.977				
Cloghboola Wind Farm	CL1	GU_401830	CLOGHBOO	110	0.973	0.972	0.970	0.970	0.973	0.970	0.972	0.968	0.971	0.968	0.971	0.968	0.969	0.970	0.974	0.974	0.976	0.973	0.975	0.972	0.977	0.974	0.976	0.974				
Boggeragh Windfarm Generator Unit	BG1	GU_400910	BOGGERAG	110	0.972	0.968	0.967	0.965	0.974	0.967	0.971	0.964	0.970	0.964	0.968	0.963	0.966	0.966	0.973	0.970	0.977	0.971	0.976	0.969	0.976	0.970	0.974	0.969				
Carraigcannon Windfarm (Gen Unit)	CD1	GU_401070	BOGGERAG	110	0.972	0.968	0.967	0.965	0.974	0.967	0.971	0.964	0.970	0.964	0.968	0.963	0.966	0.966	0.973	0.970	0.977	0.971	0.976	0.969	0.976	0.970	0.974	0.969				
Boggeragh 2 Windfarm	BG2	GU_401840	BOGGERAG	110	0.972	0.968	0.967	0.965	0.974	0.967	0.971	0.964	0.970	0.964	0.968	0.963	0.966	0.966	0.973	0.970	0.977	0.971	0.976	0.969	0.976	0.970	0.974	0.969				
Pallas Generator Unit	CJ1	GU_400660	CLAHANE	110	0.975	0.971	0.972	0.970	0.976	0.970	0.975	0.968	0.974	0.968	0.973	0.968	0.972	0.970	0.977	0.975	0.977	0.973	0.977	0.972	0.979	0.974	0.979	0.975				
Raheen Barr Gen Unit	MXE	GU_400810	CASTLEBA	110	1.006	0.999	1.011	1.002	1.008	1.001	1.012	1.003	1.010	1.003	1.010	1.002	1.008	1.001	1.007	1.002	0.999	0.990	0.997	0.990	1.000	0.991	1.002	0.992				
Carrigadrohid Generator Unit	LE3	GU_400290	CARRIGAD	110	0.975	0.972	0.969	0.969	0.977	0.971	0.974	0.968	0.973	0.968	0.972	0.967	0.969	0.970	0.976	0.975	0.981	0.975	0.980	0.973	0.979	0.974	0.977	0.973				
Erne 3 Generator Unit	ER3	GU_400220	CATH_FAL	110	0.986	0.985	0.989	0.986	0.986	0.983	0.988	0.986	0.990	0.987	0.992	0.989	0.988	0.987	0.988	0.986	0.988	0.982	0.987	0.982	0.986	0.981	0.987	0.983				
Erne 4 Generator Unit	ER4	GU_400221	CATH_FAL	110	0.986	0.985	0.989	0.986	0.986	0.983	0.988	0.986	0.990	0.987	0.992	0.989	0.988	0.987	0.988	0.986	0.988	0.982	0.987	0.982	0.986	0.981	0.987	0.983				
Acres Windfarm	AS1	GU_401820	CATH_FAL	110	0.986	0.985	0.989	0.986	0.986	0.983	0.988	0.986	0.990	0.987	0.992	0.989	0.988	0.987	0.988	0.986	0.988	0.982	0.987	0.982	0.986	0.981	0.987	0.983				
Erne 1 Generator Unit	ER1	GU_400210	CLIFF	110	0.986	0.985	0.988	0.985	0.986	0.983	0.987	0.986	0.989	0.987	0.992	0.988	0.988	0.987	0.988	0.986	0.988	0.982	0.987	0.982	0.986	0.981	0.987	0.983				
Erne 2 Generator Unit	ER2	GU_400211	CLIFF	110	0.986	0.985	0.988	0.985	0.986	0.983	0.987	0.986	0.989	0.987	0.992	0.988	0.988	0.987	0.988	0.986	0.988	0.982	0.987	0.982	0.986	0.981	0.987	0.983				
Ballywater Generator Unit	BW1	GU_400130	CRANE	110	0.995	0.992	0.990	0.989	0.992	0.989	0.988	0.984	0.986	0.984	0.986	0.984	0.989	0.987	0.990	0.989	0.999	0.994	0.998	0.994	0.999	0.995	0.989	0.988				
BRUREE HYDRO	BR1	GU_400670	CHARLEVI	110	0.983	0.978	0.979	0.977	0.985	0.978	0.983	0.976	0.980	0.974	0.980	0.974	0.977	0.977	0.984	0.981	0.988	0.981	0.987	0.979	0.987	0.980	0.984	0.979				
Gortahile Windfarm Ltd Generator Unit	GE1	GU_401060	CARLOW	110	0.996	0.994	0.993	0.992	0.995	0.993	0.991	0.989	0.990	0.988	0.990	0.988	0.992	0.990	0.993	0.992	1.001	0.996	0.999	0.995	1.000	0.996	0.992	0.990				
Kingsmountain Generator Unit	KGM	GU_400020	CUNGHILL	110	0.996	0.989	0.999	0.992	0.997	0.991	0.999	0.993	0.999	0.994	1.000	0.993	0.995	0.991	0.995	0.990	0.989	0.981	0.988	0.981	0.989	0.982	0.991	0.983				
Dunneil Windfarm (Kingsmountain Phase 2)	KG2	GU_400021	CUNGHILL	110	0.996	0.989	0.999	0.992	0.997	0.991	0.999	0.993	0.999	0.994	1.000	0.993	0.995	0.991	0.995	0.990	0.989	0.981	0.988	0.981	0.989	0.982	0.991	0.983				
Cushaling Power PPMG1	ED3	GU_401010	CUSHALIN	110	0.970	0.958	0.971	0.958	0.977	0.965	0.973	0.959	0.971	0.959	0.971	0.959	0.975	0.963	0.968	0.958	0.992	0.985	0.970	0.960	0.969	0.959	0.968	0.957				
Cushaling Power PPMG2	ED5	GU_401011	CUSHALIN	110	0.970	0.958	0.971	0.958	0.977	0.965	0.973	0.959	0.971	0.959	0.971	0.959	0.975	0.963	0.968	0.958	0.992	0.985	0.970	0.960	0.969	0.959	0.968	0.957				
Edenderry Power Supply	ED1	GU_401860	CUSHALIN	110	0.970	0.958	0.971	0.958	0.977	0.965	0.973	0.959	0.971	0.959	0.971	0.959	0.975	0.963	0.968	0.958	0.992	0.985	0.970	0.960	0.969	0.959	0.968	0.957				
Coomagearlahy Generator Unit	CG1	GU_400430	COOMAGEA	110	0.973	0.968	0.967	0.966	0.974	0.967	0.971	0.964	0.969	0.																		

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HPC1 Generation Unit	HNC	GU_400480	HUNTSTOW	220	0.998	0.999	0.999	0.999	0.999	1.000	1.000	0.999	1.000	0.999	1.000	0.999	0.998	0.997	0.998	0.999	1.000	0.998	1.000	0.999	1.001	0.998	1.000	0.999	1.001	0.998	1.000	
VPL Generation Unit	HN2	GU_400540	HUNTSTOW	220	0.998	0.999	0.998	0.999	0.999	1.000	0.999	1.000	0.999	1.000	0.999	0.998	0.997	0.998	0.998	1.000	0.998	1.000	0.999	1.001	0.998	1.000	0.999	1.001	0.998	1.000		
Inniscarra (Lee unit 1) Generator Unit	LE1	GU_400280	INISCARR	110	0.978	0.975	0.972	0.972	0.980	0.974	0.976	0.971	0.975	0.971	0.974	0.971	0.972	0.975	0.980	0.979	0.985	0.979	0.985	0.978	0.983	0.978	0.980	0.977	0.980	0.977		
Lee unit 2 Generator Unit	LE2	GU_400281	INISCARR	110	0.978	0.975	0.972	0.972	0.980	0.974	0.976	0.971	0.975	0.971	0.974	0.971	0.972	0.975	0.980	0.979	0.985	0.979	0.985	0.978	0.983	0.978	0.980	0.977	0.980	0.977		
Monaincha Wind Farm	MH1	GU_401540	IKERRIN	110	0.987	0.977	0.985	0.977	0.987	0.978	0.987	0.977	0.986	0.977	0.985	0.976	0.988	0.979	0.988	0.979	0.992	0.979	0.989	0.977	0.990	0.977	0.988	0.976	0.988	0.976		
Dublin Bay Generator Unit	DB1	GU_400500	IRISHTOW	220	0.999	0.998	0.997	0.996	0.998	0.997	0.998	0.996	0.997	0.996	0.997	0.996	0.997	0.996	0.995	0.996	0.998	0.998	0.999	0.999	1.000	0.996	0.998	0.996	0.998	0.998		
Arthurstown 1(ESB) Generator Unit	AR2	GU_400570	KILTEEL	110	0.999	0.995	0.999	0.995	1.001	0.997	1.001	0.996	1.000	0.996	1.000	0.996	1.000	0.995	0.997	0.994	1.004	1.001	0.998	0.996	0.999	0.996	0.998	0.998	0.999	0.994		
Knocknagoum Windfarm Limited	KM1	GU_401350	REAMORE	110	0.977	0.971	0.974	0.971	0.978	0.971	0.976	0.969	0.975	0.969	0.974	0.968	0.972	0.971	0.977	0.975	0.978	0.973	0.978	0.972	0.980	0.974	0.979	0.975	0.978	0.975		
Lanesboro	LR4	GU_400240	LANESBOR	110	0.981	0.974	0.985	0.977	0.983	0.976	0.985	0.978	0.984	0.978	0.985	0.978	0.983	0.976	0.993	0.989	0.982	0.975	0.980	0.974	0.981	0.974	0.982	0.975	0.978	0.975		
Cuillagh Generator Unit	RO1	GU_400030	LETTERKE	110	0.985	0.980	0.989	0.982	0.985	0.979	0.987	0.982	0.989	0.983	0.991	0.984	0.985	0.980	0.984	0.977	0.983	0.975	0.984	0.975	0.982	0.974	0.984	0.976	0.978	0.975		
Cark Wind Farm	CAR	GU_401630	LETTERKE	110	0.985	0.980	0.989	0.982	0.985	0.979	0.987	0.982	0.989	0.983	0.991	0.984	0.985	0.980	0.984	0.977	0.983	0.975	0.984	0.975	0.982	0.974	0.984	0.976	0.978	0.975		
Lisheen Windfarm Phase 1	LS1	GU_400840	LISHEEN	110	0.987	0.977	0.985	0.977	0.987	0.978	0.987	0.976	0.986	0.977	0.985	0.976	0.987	0.977	0.988	0.978	0.993	0.979	0.989	0.977	0.990	0.977	0.988	0.976	0.988	0.975		
Bruckana Wind Farm Limited	BU1	GU_401700	LISHEEN	110	0.987	0.977	0.985	0.977	0.987	0.978	0.987	0.976	0.986	0.977	0.985	0.976	0.987	0.977	0.988	0.978	0.993	0.979	0.989	0.977	0.990	0.977	0.988	0.976	0.988	0.975		
Lisheen Wind Farm 2 Ltd	LS2	GU_401750	LISHEEN	110	0.987	0.977	0.985	0.977	0.987	0.978	0.987	0.976	0.986	0.977	0.985	0.976	0.987	0.977	0.988	0.978	0.993	0.979	0.989	0.977	0.990	0.977	0.988	0.976	0.988	0.975		
Castledockrell Windfarm (Gen Unit)	CK1	GU_401100	LODGEWOOD	110	0.994	0.991	0.988	0.987	0.990	0.988	0.985	0.983	0.984	0.983	0.984	0.983	0.987	0.986	0.988	0.988	0.997	0.993	0.997	0.993	0.998	0.994	0.987	0.987	0.994	0.987		
Ballycadden Wind Farm	BY1	GU_401290	LODGEWOOD	110	0.994	0.991	0.988	0.987	0.990	0.988	0.985	0.983	0.984	0.983	0.984	0.983	0.987	0.986	0.988	0.988	0.997	0.993	0.997	0.993	0.998	0.994	0.987	0.987	0.994	0.987		
Gibbet Hill Windfarm	GT1	GU_401340	LODGEWOOD	110	0.994	0.991	0.988	0.987	0.990	0.988	0.985	0.983	0.984	0.983	0.984	0.983	0.987	0.986	0.988	0.988	0.997	0.993	0.997	0.993	0.998	0.994	0.987	0.987	0.994	0.987		
Ballycadden Wind Farm Phase 2	BY2	GU_401360	LODGEWOOD	110	0.994	0.991	0.988	0.987	0.990	0.988	0.985	0.983	0.984	0.983	0.984	0.983	0.987	0.986	0.988	0.988	0.997	0.993	0.997	0.993	0.998	0.994	0.987	0.987	0.994	0.987		
Gartaneane Generator Unit	GA2	GU_400041	MEATH HI	110	1.002	1.003	1.005	1.005	1.002	1.004	1.003	1.006	1.004	1.006	1.004	1.006	1.002	1.003	1.000	1.002	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.001	1.001	1.002	1.002	
Bawnmore Windfarm	BN1	GU_401150	MACROOM	110	0.975	0.971	0.969	0.969	0.977	0.971	0.973	0.968	0.972	0.967	0.971	0.967	0.968	0.970	0.976	0.974	0.980	0.974	0.979	0.973	0.979	0.973	0.976	0.972	0.978	0.975		
Moneypoint 1 Generator Unit	MP1	GU_400270	MNYPG1	380	0.978	0.980	0.976	0.979	0.979	0.979	0.977	0.977	0.977	0.976	0.977	0.977	0.976	0.978	0.980	0.983	0.981	0.982	0.980	0.982	0.983	0.985	0.982	0.984	0.982	0.984		
Moneypoint 3 Generator Unit	MP3	GU_400272	MNYPG3	380	0.978	0.980	0.976	0.979	0.979	0.979	0.977	0.977	0.977	0.976	0.977	0.977	0.976	0.978	0.980	0.983	0.981	0.982	0.980	0.982	0.983	0.985	0.982	0.984	0.982	0.984		
Moneypoint 2 Generator Unit	MP2	GU_400271	MNYPG2	380	0.978	0.980	0.976	0.979	0.979	0.979	0.977	0.977	0.977	0.976	0.977	0.977	0.976	0.978	0.980	0.983	0.981	0.982	0.980	0.982	0.983	0.985	0.982	0.984	0.982	0.984		
Marina Generator Unit	MRT	GU_400300	MARINA	110	0.979	0.976	0.972	0.973	0.981	0.976	0.978	0.972	0.976	0.971	0.974	0.971	0.972	0.974	0.981	0.979	0.987	0.980	0.986	0.979	0.984	0.978	0.981	0.977	0.981	0.977		
Tawnaghmore Peaking 1 Generator Unit	TP1	GU_400780	MOY	110	1.003	0.995	1.008	0.998	1.006	0.997	1.009	1.000	1.008	1.000	1.008	0.999	1.002	0.996	1.001	0.995	0.990	0.979	0.988	0.978	0.990	0.980	0.992	0.981	0.992	0.981		
Tawnaghmore Peaking 3 Generator Unit	TP3	GU_400781	MOY	110	1.003	0.995	1.008	0.998	1.006	0.997	1.009	1.000	1.008	1.000	1.008	0.999	1.002	0.996	1.001	0.995	0.990	0.979	0.988	0.978	0.990	0.980	0.992	0.981	0.992	0.981		
Meentycat Generator Unit	MCT	GU_400070	MEENTYCA	110	0.981	0.975	0.985	0.976	0.981	0.975	0.983	0.978	0.984	0.979	0.987	0.980	0.981	0.977	0.979	0.974	0.979	0.970	0.980	0.970	0.977	0.970	0.980	0.972	0.980	0.972		
North Wall5 Generator Unit	NW5	GU_400311	NORTH WA	220	0.999	0.999	0.999	0.999	0.999	1.000	1.000	0.999	1.000	0.999	1.000	0.999	0.998	0.998	0.998	0.999	1.000	0.999	1.001	1.000	1.001	1.001	0.998	1.000	0.998	1.000		
Carrowleagh Windfarm	XR1	GU_401280	GLENREE	110	0.999	0.991	1.004	0.995	1.001	0.993	1.004	0.996	1.003	0.996	1.004	0.996	0.998	0.993	0.998	0.992	0.989	0.979	0.987	0.978	0.989	0.979	0.991	0.980	0.991	0.980		
Liffey 1 Generator Unit	LI1	GU_400250	POLLAPHU	110	0.997	0.993	0.994	0.990	0.995	0.990	0.992	0.988	0.991	0.987	0.995	0.988	0.996	0.990	0.996	0.991	1.001	0.994	1.000	0.993	1.001	0.995	0.995	0.988	0.995	0.988		
Liffey 2 Generator Unit	LI2	GU_400251	POLLAPHU	110	0.997	0.993	0.994	0.990	0.995	0.990	0.992	0.988	0.991	0.987	0.995	0.988	0.996	0.990	0.996	0.991	1.001	0.994	1.000	0.993	1.001	0.995	0.995	0.988	0.995	0.988		
Liffey 4 Generator Unit	LI4	GU_400252	POLLAPHU	110	0.997	0.993	0.994	0.990	0.995	0.990	0.992	0.988	0.991	0.987	0.995	0.988	0.996	0.990	0.996	0.991	1.001	0.994	1.000	0.993	1.001	0.995	0.995	0.988	0.995	0.988		
Liffey 5 Generator Unit	LI5	GU_400260	POLLAPHU	110	0.997	0.993	0.994	0.990	0.995	0.990	0.992	0.988	0.991	0.987	0.995	0.988	0.996	0.990	0.996	0.991	1.001	0.994	1.000	0.993	1.001	0.995	0.995	0.988	0.995	0.988		
Liffey 3 Hydro Unit	LI3	GU_401220	POLLAPHU	110	0.997	0.993	0.994	0.990	0.995	0.990	0.992	0.988	0.991	0.987	0.995	0.988	0.996	0.990	0.996	0.991	1.001	0.994	1.000	0.993	1.001	0.995	0.995	0.988	0.995	0.988		
Rathcahill West Windfarm	RC1	GU_401080	RATHKEAL	110	0.977	0.975	0.975	0.974	0.978	0.974	0.977	0.972	0.976	0.972	0.976	0.973	0.974	0.974	0.979	0.978	0.980	0.977	0.979	0.975	0.981	0.977	0.981	0.979	0.981	0.979		
Grouselodge Windfarm (Gen Unit)	GW1	GU_401090	RATHKEAL	110	0.977	0.975	0.975	0.974	0.978	0.974	0.977	0.972	0.976	0.972	0.976	0.973	0.974	0.974	0.979	0.978	0.980	0.977	0.979	0.975	0.981	0.977	0.981	0.979	0.981	0.979		
Bindoo Generator Unit	BD1	GU_400050	RATRUSSA	110	0.998	0.995	1.003	0.998	1.000	0.997	1.001	1.000	1.001	1.001	1.003	1.000	1.000	0.998	0.999	0.996	0.998	0.994	0.998	0.995	0.998	0.994	1.000	0.996	0.996	0.996		
Mountain Lodge Wind Farm	ML1	GU_400620	RATRUSSA	110	0.998	0.995	1.003	0.998	1.000	0.997	1.001	1.000	1.001	1.001	1.003	1.000	1.000	0.998	0.999	0.996	0.998	0.994	0.998	0.995	0.998	0.994	1.000					

1617 SINGLE ELECTRICITY MARKET APPROVED TRANSMISSION LOSS ADJUSTMENT FACTORS - MARKET PARTICIPANTS

Market Participant - Transmission Connected	Unit ID TSO	GU_ID	Transmission Station	kv	Month																											
					October		November		December		January		February		March		April		May		June		July		August		September					
					Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night				
Slieveveagh Power Phase II	SL2	GU_401460	TIPPERAR	110	0.987	0.980	0.984	0.979	0.987	0.980	0.986	0.977	0.985	0.977	0.984	0.977	0.984	0.979	0.987	0.982	0.992	0.982	0.990	0.981	0.990	0.981	0.988	0.980				
Ballymartin Wind Farm Phase 1	BX1	GU_401710	WATERFOR	110	0.990	0.988	0.984	0.984	0.988	0.985	0.980	0.978	0.978	0.977	0.978	0.977	0.982	0.983	0.986	0.986	0.999	0.992	0.998	0.992	0.998	0.992	0.984	0.984				
Ballymartin Wind Farm Phase 2	BX2	GU_401760	WATERFOR	110	0.990	0.988	0.984	0.984	0.988	0.985	0.980	0.978	0.978	0.977	0.978	0.977	0.982	0.983	0.986	0.986	0.999	0.992	0.998	0.992	0.998	0.992	0.984	0.984				
Richfield Generator Unit	RF1	GU_400080	WEXFORD	110	0.998	0.993	0.993	0.990	0.995	0.991	0.990	0.985	0.989	0.985	0.988	0.985	0.991	0.988	0.993	0.990	1.003	0.995	1.002	0.995	1.003	0.995	0.992	0.988				
Carnsore Point Generator Unit	CNS	GU_400470	WEXFORD	110	0.998	0.993	0.993	0.990	0.995	0.991	0.990	0.985	0.989	0.985	0.988	0.985	0.991	0.988	0.993	0.990	1.003	0.995	1.002	0.995	1.003	0.995	0.992	0.988				
Woodhouse Wind Farm	WS1	GU_401680	WOODHOU	110	0.985	0.982	0.979	0.978	0.985	0.980	0.980	0.975	0.978	0.974	0.974	0.977	0.974	0.978	0.979	0.984	0.983	0.993	0.986	0.992	0.985	0.992	0.985	0.983	0.980			
Aghada 2 Generator Unit	AD2	GU_400850	LONGPOIN	220	0.975	0.973	0.967	0.969	0.977	0.972	0.973	0.968	0.971	0.968	0.969	0.967	0.967	0.971	0.977	0.975	0.983	0.976	0.982	0.975	0.980	0.975	0.977	0.973				
Tarbert 2 Generator Unit	TB2	GU_400751	TARBERT	110	0.976	0.976	0.974	0.975	0.977	0.975	0.976	0.973	0.975	0.973	0.975	0.973	0.974	0.975	0.978	0.979	0.979	0.978	0.978	0.977	0.981	0.979	0.980	0.980				
EWIC	EW1	I_ROIEWIC	DEESIDE	400	0.966	1.015	0.963	1.016	0.964	1.017	0.964	1.017	0.964	1.016	0.964	1.016	0.989	0.998	0.985	1.002	0.964	1.017	0.965	1.018	0.965	1.018	0.968	1.016				
Gortmullan Energy Limited		GU_501270	AGHY1-	110	0.989	0.984	0.994	0.987	0.989	0.985	0.991	0.989	0.992	0.989	0.993	0.990	0.989	0.988	0.986	0.985	0.987	0.982	0.989	0.982	0.985	0.981	0.988	0.984				
Molly Mountain Wind Farm		GU_501300	AGHY1-	110	0.989	0.984	0.994	0.987	0.989	0.985	0.991	0.989	0.992	0.989	0.993	0.990	0.989	0.988	0.986	0.985	0.987	0.982	0.989	0.982	0.985	0.981	0.988	0.984				
Slieve Rushen 2		GU_500270	AGHY1-	110	0.989	0.984	0.994	0.987	0.989	0.985	0.991	0.989	0.992	0.989	0.993	0.990	0.989	0.988	0.986	0.985	0.987	0.982	0.989	0.982	0.985	0.981	0.988	0.984				
AES Ballylumford Limited GT1	BGT	GU_500283	BAFD1-	110	0.994	1.000	1.000	1.005	0.996	1.003	0.995	1.006	0.998	1.006	0.998	1.006	0.997	1.007	0.991	1.000	0.992	0.998	0.994	0.999	0.991	0.997	0.996	1.002				
AES Ballylumford Limited GT2	BGT	GU_500284	BAFD1-	110	0.994	1.000	1.000	1.005	0.996	1.003	0.995	1.006	0.998	1.006	0.998	1.006	0.997	1.007	0.991	1.000	0.992	0.998	0.994	0.999	0.991	0.997	0.996	1.002				
Ballylumford Generator Unit	B10	GU_500140	BAFD1-	110	0.994	1.000	1.000	1.005	0.996	1.003	0.995	1.006	0.998	1.006	0.998	1.006	0.997	1.007	0.991	1.000	0.992	0.998	0.994	0.999	0.991	0.997	0.996	1.002				
Ballylumford 4 Generator Unit	B4	GU_500282	BAFD2-	275	0.996	1.001	1.000	1.005	0.996	1.003	0.996	1.006	0.999	1.006	0.999	1.006	0.997	1.007	0.994	1.003	0.995	1.001	0.997	1.002	0.994	1.000	0.997	1.003				
Ballylumford 5 Generator Unit	B5	GU_500281	BAFD2-	275	0.996	1.001	1.000	1.005	0.996	1.003	0.996	1.006	0.999	1.006	0.999	1.006	0.997	1.007	0.994	1.003	0.995	1.001	0.997	1.002	0.994	1.000	0.997	1.003				
Ballylumford Generator Unit	B31	GU_500130	BAFD2-	275	0.996	1.001	1.000	1.005	0.996	1.003	0.996	1.006	0.999	1.006	0.999	1.006	0.997	1.007	0.994	1.003	0.995	1.001	0.997	1.002	0.994	1.000	0.997	1.003				
Ballylumford Generator Unit	B6	GU_500131	BAFD2-	275	0.996	1.001	1.000	1.005	0.996	1.003	0.996	1.006	0.999	1.006	0.999	1.006	0.997	1.007	0.994	1.003	0.995	1.001	0.997	1.002	0.994	1.000	0.997	1.003				
Carn Hill Windfarm		GU_501210	CARN1A	110	1.000	1.003	1.005	1.008	1.002	1.006	1.002	1.009	1.004	1.010	1.004	1.010	1.002	1.011	0.998	1.005	0.998	1.003	1.000	1.004	0.998	1.002	1.001	1.006				
Dunbeg Wind Farm		GU_501280	COLE1-	110	0.993	0.992	0.997	0.994	0.992	0.993	0.994	0.997	0.996	0.997	0.996	0.997	0.992	0.998	0.990	0.993	0.991	0.991	0.992	0.992	0.989	0.990	0.993	0.993				
Dunmore Wind Farm		GU_501250	COLE1-	110	0.993	0.992	0.997	0.994	0.992	0.993	0.994	0.997	0.996	0.997	0.996	0.997	0.992	0.998	0.990	0.993	0.991	0.991	0.992	0.992	0.989	0.990	0.993	0.993				
Garves Wind Generator Unit		GU_500720	COLE1-	110	0.993	0.992	0.997	0.994	0.992	0.993	0.994	0.997	0.996	0.997	0.996	0.997	0.992	0.998	0.990	0.993	0.991	0.991	0.992	0.992	0.989	0.990	0.993	0.993				
Gruig Generator Unit		GU_500790	COLE1-	110	0.993	0.992	0.997	0.994	0.992	0.993	0.994	0.997	0.996	0.997	0.996	0.997	0.992	0.998	0.990	0.993	0.991	0.991	0.992	0.992	0.989	0.990	0.993	0.993				
Coolkeeragh ESB Ltd GT8	CGT	GU_500041	COOL1-	110	0.989	0.990	0.990	0.991	0.987	0.989	0.987	0.992	0.989	0.992	0.990	0.993	0.987	0.993	0.986	0.990	0.987	0.989	0.989	0.989	0.985	0.987	0.989	0.991				
Lisahally Power Station		GU_501350	COOL1-	110	0.989	0.990	0.990	0.991	0.987	0.989	0.987	0.992	0.989	0.992	0.990	0.993	0.987	0.993	0.986	0.990	0.987	0.989	0.989	0.989	0.985	0.987	0.989	0.991				
Monnaboy Windfarm		GU_501360	COOL1-	110	0.989	0.990	0.990	0.991	0.987	0.989	0.987	0.992	0.989	0.992	0.990	0.993	0.987	0.993	0.986	0.990	0.987	0.989	0.989	0.989	0.985	0.987	0.989	0.991				
Coolkeeragh CCGT Generator Unit	C30	GU_500040	COOLKEER	275	0.991	0.993	0.992	0.994	0.989	0.992	0.989	0.995	0.991	0.995	0.992	0.996	0.989	0.996	0.988	0.993	0.989	0.992	0.991	0.993	0.987	0.990	0.991	0.994				
Crockagarran Generator Unit		GU_501050	DUNG1-	110	0.998	0.999	1.001	1.002	0.998	1.000	0.999	1.003	1.000	1.003	1.001	1.004	0.998	1.003	0.996	1.000	0.996	0.998	0.998	0.999	0.996	0.998	0.998	1.000				
Callagheen Generator Unit		GU_500020	ENNISKIL	110	0.994	0.990	0.999	0.993	0.994	0.991	0.996	0.995	0.998	0.996	0.999	0.996	0.994	0.995	0.992	0.991	0.992	0.989	0.994	0.989	0.991	0.988	0.994	0.990				
Carrickatane Wind Farm		GU_501190	KILL1-CL	110	0.987	0.988	0.989	0.989	0.986	0.987	0.986	0.990	0.988	0.990	0.989	0.991	0.986	0.991	0.984	0.987	0.985	0.986	0.987	0.987	0.984	0.985	0.987	0.988				
Slieve Kirk Windfarm		GU_501160	KILL1-CL	110	0.987	0.988	0.989	0.989	0.986	0.987	0.986	0.990	0.988	0.990	0.989	0.991	0.986	0.991	0.984	0.987	0.985	0.986	0.987	0.987	0.984	0.985	0.987	0.988				
AES GT3 Gen Unit	KGT	GU_500820	KILR2-	275	0.995	0.999	0.999	1.002	0.995	1.000	0.995	1.003	0.997	1.003	0.998	1.003	0.995	1.004	0.993	1.001	0.994	0.999	0.996	1.000	0.993	0.998	0.995	1.000				
AES GT4 Gen Unit	KGT	GU_500821	KILR2-	275	0.995	0.999	0.999	1.002	0.995	1.000	0.995	1.003	0.997	1.003	0.998	1.003	0.995	1.004	0.993	1.001	0.994	0.999	0.996	1.000	0.993	0.998	0.995	1.000				
AES Kilroot - K1	K1	GU_500822	KILR2-	275	0.995	0.999	0.999	1.002	0.995	1.000	0.995	1.003	0.997	1.003	0.998	1.003	0.995	1.004	0.993	1.001	0.994	0.999	0.996	1.000	0.993	0.998	0.995	1.000				
AES Kilroot - K2	K2	GU_500823	KILR2-	275	0.995	0.999	0.999	1.002	0.995	1.000	0.995	1.003	0.997	1.003	0.998	1.003	0.995	1.004	0.993	1.001	0.994	0.999	0.996	1.000	0.993	0.998	0.995	1.000				
AES Kilroot Power Ltd GT1	KGT	GU_500824	KILR2-	275	0.995	0.999	0.999	1.002	0.995	1.000	0.995	1.003	0.997	1.003	0.998	1.003	0.995	1.004	0.993	1.001	0.994	0.999	0.996	1.000	0.993	0.998	0.995	1.000				
AES Kilroot Power Ltd GT2	KGT	GU_500825	KILR2-	275	0.995	0.999	0.999	1.002	0.995	1.000	0.995	1.003	0.997	1.003	0.998	1.003	0.995	1.004	0.993	1.001	0.994	0.999	0.996	1.000	0.993	0.998	0.995	1.000				
Altahullion 1 Generation Unit		GU_500210	LIMA1-	110	0.991	0.991	0.995	0.993	0.990	0.991	0.992	0.995	0.994	0.995	0.994	0.996	0.990	0.996	0.988	0.992	0.989	0.990	0.991	0.990	0.988	0.988	0.992	0.992				
Altahullion 2 Generation Unit		GU_500211	LIMA1-	110	0.991	0.991	0.995	0.993	0.990	0.991	0.992	0.995	0.994	0.995	0.994	0.996	0.990	0.996	0.988	0.992	0.989	0.990	0.991	0.990	0.988	0.988	0.992	0.992				
Contour Global AGU	AGU	GU_500904	LSB1A	110	1.000	1.003	1.004	1.006	1.000	1.005	1.001	1.008	1.003	1.008	1.003	1.008	1.001	1.009	0.998	1.005	0.999	1.003	1.000	1.004								

1617 SINGLE ELECTRICITY MARKET TRANSMISSION LOSS ADJUSTMENT FACTORS - APPROVED TRANSMISSION NODE TLAFS																									
Station Name	kV	Month																							
		Oct		Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
ARDNACRU	110	0.981	0.978	0.978	0.976	0.981	0.976	0.980	0.974	0.979	0.974	0.980	0.976	0.977	0.978	0.982	0.981	0.985	0.980	0.984	0.978	0.985	0.980	0.985	0.981
AGHADA	220	0.975	0.973	0.967	0.969	0.977	0.972	0.973	0.968	0.971	0.968	0.969	0.967	0.967	0.975	0.983	0.976	0.982	0.975	0.980	0.975	0.980	0.975	0.977	0.973
ARIGNA	110	0.991	0.988	0.993	0.990	0.992	0.989	0.993	0.990	0.993	0.991	0.994	0.991	0.991	0.989	0.993	0.990	0.986	0.989	0.985	0.990	0.986	0.991	0.987	0.987
AGANNYGA	110	0.977	0.972	0.975	0.971	0.978	0.972	0.978	0.970	0.977	0.971	0.977	0.971	0.976	0.973	0.978	0.974	0.979	0.974	0.977	0.971	0.978	0.973	0.978	0.973
ARKLOW	110	0.997	0.995	0.993	0.992	0.995	0.993	0.992	0.990	0.991	0.990	0.991	0.990	0.992	0.991	0.992	0.993	0.998	0.996	0.998	0.997	0.999	0.997	0.992	0.993
ARKLOW	220	0.997	0.995	0.993	0.992	0.994	0.993	0.991	0.989	0.990	0.989	0.990	0.989	0.991	0.991	0.992	0.992	0.998	0.996	0.998	0.996	0.999	0.997	0.991	0.992
ATHEA	110	0.975	0.973	0.971	0.972	0.975	0.972	0.974	0.970	0.973	0.970	0.973	0.970	0.972	0.976	0.976	0.978	0.975	0.977	0.974	0.979	0.976	0.977	0.977	0.976
ATHLONE	110	0.984	0.975	0.984	0.975	0.985	0.976	0.986	0.976	0.984	0.976	0.984	0.976	0.988	0.979	0.989	0.981	0.989	0.978	0.985	0.976	0.987	0.976	0.986	0.976
AUGHINIS	110	0.965	0.964	0.963	0.964	0.965	0.963	0.965	0.961	0.964	0.961	0.965	0.962	0.962	0.962	0.967	0.966	0.968	0.965	0.967	0.964	0.970	0.967	0.977	0.975
ARVA	110	1.002	0.999	1.006	1.002	1.003	1.001	1.005	1.004	1.005	1.004	1.007	1.004	1.004	1.001	1.002	0.999	1.001	0.997	1.002	0.997	1.001	0.997	1.003	0.998
BALLYVOU	110	0.973	0.971	0.969	0.969	0.975	0.970	0.972	0.967	0.972	0.967	0.971	0.967	0.968	0.969	0.975	0.974	0.979	0.974	0.977	0.972	0.978	0.973	0.975	0.972
BALLYVOU	220	0.974	0.971	0.970	0.969	0.975	0.971	0.973	0.968	0.972	0.967	0.971	0.967	0.969	0.970	0.975	0.974	0.979	0.974	0.977	0.973	0.978	0.973	0.976	0.973
ATHY	110	0.993	0.987	0.991	0.986	0.994	0.988	0.992	0.985	0.990	0.984	0.990	0.984	0.991	0.986	0.990	0.985	1.000	0.993	0.993	0.987	0.994	0.987	0.989	0.984
BALLYWAT	110	0.995	0.991	0.989	0.987	0.992	0.988	0.987	0.983	0.986	0.983	0.985	0.983	0.988	0.986	0.989	0.988	0.998	0.993	0.997	0.993	0.998	0.993	0.988	0.987
BOOLTIAG	110	0.979	0.977	0.977	0.977	0.980	0.976	0.980	0.975	0.979	0.975	0.979	0.975	0.975	0.975	0.979	0.979	0.980	0.977	0.979	0.976	0.981	0.978	0.981	0.979
BALTRASN	110	1.001	1.002	1.003	1.003	1.002	1.003	1.003	1.004	1.003	1.004	1.003	1.004	1.002	1.002	1.001	1.002	1.001	1.003	1.001	1.003	1.002	1.003	1.001	1.003
BALLYLIC	110	0.976	0.968	0.971	0.966	0.977	0.968	0.975	0.966	0.975	0.966	0.973	0.965	0.968	0.967	0.975	0.970	0.979	0.971	0.979	0.969	0.977	0.969	0.976	0.969
BALLYBEG	110	0.999	0.997	0.996	0.994	0.997	0.995	0.995	0.993	0.994	0.993	0.994	0.993	0.994	0.994	0.994	0.995	0.999	0.997	0.999	0.998	1.000	0.999	0.994	0.995
BLAKE	110	0.993	0.988	0.994	0.988	0.996	0.991	0.996	0.989	0.994	0.989	0.994	0.989	0.994	0.989	0.991	0.987	1.001	0.998	0.992	0.989	0.993	0.989	0.991	0.987
BINBANE	110	0.985	0.979	0.989	0.981	0.985	0.979	0.987	0.982	0.989	0.984	0.991	0.985	0.985	0.980	0.983	0.978	0.983	0.974	0.983	0.974	0.981	0.974	0.983	0.975
BARODA	110	0.993	0.986	0.993	0.987	0.996	0.990	0.995	0.988	0.994	0.987	0.994	0.987	0.994	0.987	0.990	0.985	1.002	0.997	0.991	0.987	0.992	0.987	0.990	0.985
BALLYDIN	110	0.993	0.986	0.989	0.984	0.992	0.985	0.989	0.981	0.988	0.981	0.987	0.981	0.987	0.984	0.991	0.986	0.998	0.988	0.996	0.987	0.997	0.988	0.991	0.984
BELLACOR	110	1.005	0.996	1.010	1.000	1.007	0.998	1.011	1.001	1.009	1.001	1.010	1.001	1.004	0.998	1.003	0.996	0.989	0.977	0.988	0.977	0.990	0.978	0.992	0.980
BANDON	110	0.983	0.978	0.977	0.975	0.985	0.978	0.982	0.975	0.981	0.975	0.980	0.974	0.978	0.976	0.986	0.980	0.990	0.981	0.990	0.979	0.989	0.979	0.986	0.978
BARRYMOR	110	0.981	0.977	0.975	0.974	0.983	0.977	0.979	0.973	0.978	0.973	0.977	0.972	0.975	0.975	0.982	0.979	0.988	0.980	0.987	0.979	0.986	0.979	0.982	0.977
BUTLERST	110	0.991	0.988	0.984	0.984	0.988	0.985	0.981	0.978	0.979	0.977	0.978	0.977	0.982	0.983	0.987	0.987	0.999	0.992	0.998	0.992	0.998	0.992	0.985	0.984
BRINNY	110	0.983	0.978	0.977	0.975	0.985	0.978	0.982	0.975	0.981	0.975	0.980	0.974	0.978	0.976	0.986	0.980	0.990	0.981	0.990	0.979	0.989	0.979	0.986	0.978
CLOGHBOO	110	0.973	0.972	0.970	0.970	0.973	0.970	0.972	0.968	0.971	0.968	0.971	0.968	0.969	0.970	0.974	0.974	0.976	0.973	0.975	0.972	0.977	0.974	0.976	0.974
BANOGE	110	0.997	0.994	0.993	0.991	0.995	0.992	0.991	0.988	0.990	0.988	0.990	0.988	0.991	0.990	0.992	0.992	0.999	0.996	0.999	0.996	1.000	0.996	0.991	0.991
BOGGERAG	110	0.972	0.968	0.967	0.965	0.974	0.967	0.971	0.964	0.970	0.964	0.968	0.963	0.966	0.966	0.973	0.970	0.977	0.971	0.976	0.969	0.976	0.970	0.974	0.969
CLASHAVO	110	0.974	0.971	0.969	0.968	0.976	0.970	0.973	0.967	0.972	0.967	0.970	0.966	0.968	0.969	0.975	0.973	0.979	0.974	0.978	0.972	0.978	0.973	0.976	0.972
CLASHAVO	220	0.975	0.972	0.970	0.970	0.977	0.972	0.974	0.968	0.973	0.968	0.972	0.968	0.969	0.970	0.976	0.975	0.981	0.975	0.979	0.974	0.980	0.974	0.977	0.973
CLONKEEN	110	0.974	0.969	0.968	0.967	0.975	0.969	0.972	0.966	0.971	0.966	0.969	0.965	0.968	0.968	0.975	0.972	0.977	0.972	0.978	0.971	0.977	0.971	0.975	0.971
COOLROE	110	0.979	0.975	0.972	0.973	0.981	0.975	0.977	0.972	0.976	0.971	0.975	0.971	0.972	0.975	0.981	0.979	0.986	0.980	0.985	0.978	0.984	0.978	0.981	0.977
CORDERRY	110	0.990	0.987	0.992	0.989	0.991	0.988	0.992	0.989	0.992	0.990	0.993	0.990	0.990	0.988	0.991	0.989	0.989	0.985	0.988	0.984	0.989	0.985	0.990	0.986
CASHLA	110	0.988	0.987	0.988	0.988	0.989	0.987	0.989	0.986	0.989	0.986	0.989	0.986	0.988	0.986	0.988	0.989	0.988	0.986	0.987	0.986	0.989	0.988	0.989	0.988
CASHLA	220	0.988	0.987	0.988	0.988	0.989	0.986	0.989	0.986	0.988	0.986	0.988	0.986	0.988	0.986	0.989	0.989	0.988	0.986	0.987	0.986	0.989	0.988	0.989	0.988
CLAHANE	110	0.975	0.971	0.972	0.970	0.976	0.970	0.975	0.968	0.974	0.968	0.973	0.968	0.972	0.970	0.977	0.975	0.977	0.973	0.977	0.972	0.979	0.974	0.979	0.975
CASTLEBA	110	1.006	0.999	1.011	1.002	1.008	1.001	1.012	1.003	1.010	1.003	1.010	1.002	1.008	1.001	1.007	1.002	0.999	0.990	0.997	0.990	1.000	0.991	1.002	0.992
CARRIGAD	110	0.975	0.972	0.969	0.969	0.977	0.971	0.974	0.968	0.973	0.968	0.972	0.967	0.969	0.970	0.976	0.975	0.981	0.975	0.980	0.973	0.979	0.974	0.977	0.973
CATH_FAL	110	0.986	0.985	0.989	0.986	0.986	0.983	0.988	0.986	0.990	0.987	0.992	0.989	0.988	0.987	0.988	0.986	0.988	0.982	0.987	0.982	0.986	0.981	0.987	0.983
CAHIR	110	0.990	0.983	0.988	0.982	0.990	0.982	0.989	0.980	0.988	0.980	0.988	0.980	0.988	0.982	0.990	0.983	0.996	0.985	0.993	0.983	0.994	0.984	0.991	0.981
CARRICKM	110	1.000	0.999	0.998	0.997	0.999	0.998	0.999	0.997	0.998	0.997	0.998	0.997	0.997	0.996	0.996	0.997	0.999	0.999	0.999	1.000	1.000	0.997	0.998	0.998
CARRICKM	220	0.999	0.998	0.997	0.996	0.998	0.997	0.998	0.996	0.997	0.996	0.997	0.996	0.997	0.996	0.996	0.996	0.999	0.998	0.998	0.999	1.000	1.000	0.996	0.998
CLIFF	110	0.986	0.985	0.988	0.985	0.986	0.983	0.987	0.986	0.989	0.987	0.992	0.988	0.988	0.987	0.988	0.986	0.988	0.982	0.987	0.982	0.986	0.981	0.987	0.983
CLOON	110	0.991	0.988	0.992	0.989	0.992	0.988	0.993	0.988	0.992	0.988	0.992	0.988	0.991	0.988	0.994									

1617 SINGLE ELECTRICITY MARKET TRANSMISSION LOSS ADJUSTMENT FACTORS - APPROVED TRANSMISSION NODE TLAFS																									
Station Name	kV	Month																							
		Oct		Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night		
KILLONAN	110	0.981	0.978	0.978	0.976	0.982	0.977	0.980	0.974	0.979	0.974	0.980	0.975	0.978	0.977	0.982	0.981	0.985	0.980	0.984	0.979	0.985	0.980	0.984	0.980
KILLONAN	220	0.980	0.977	0.977	0.976	0.981	0.976	0.980	0.974	0.979	0.974	0.979	0.975	0.977	0.977	0.982	0.980	0.984	0.979	0.983	0.978	0.984	0.979	0.983	0.980
KNOCKUMB	110	1.005	1.006	1.007	1.007	1.006	1.007	1.006	1.008	1.007	1.008	1.007	1.008	1.005	1.004	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.004	1.004
BALLYNAH	110	0.974	0.971	0.970	0.969	0.975	0.971	0.973	0.968	0.972	0.967	0.971	0.967	0.969	0.970	0.975	0.974	0.978	0.974	0.976	0.972	0.978	0.973	0.976	0.973
BALLYNAH	220	0.974	0.971	0.970	0.969	0.975	0.971	0.973	0.968	0.972	0.968	0.971	0.967	0.969	0.970	0.975	0.974	0.978	0.974	0.977	0.972	0.978	0.973	0.976	0.973
KELLIS	110	0.995	0.994	0.992	0.992	0.994	0.992	0.990	0.988	0.989	0.987	0.989	0.988	0.991	0.990	0.992	0.992	1.000	0.996	0.998	0.995	1.000	0.996	0.991	0.990
KELLIS	220	0.994	0.993	0.990	0.990	0.992	0.991	0.989	0.987	0.987	0.986	0.987	0.986	0.989	0.989	0.991	0.991	0.999	0.995	0.997	0.994	0.998	0.995	0.990	0.990
KINNEGAD	110	1.004	1.002	1.005	1.003	1.005	1.004	1.006	1.004	1.005	1.004	1.006	1.004	1.005	1.000	1.005	1.002	1.005	1.002	1.003	1.001	1.005	1.002	1.003	1.001
KILLOTER	110	0.991	0.988	0.984	0.984	0.988	0.985	0.981	0.978	0.979	0.977	0.978	0.977	0.982	0.983	0.987	0.987	0.999	0.992	0.998	0.992	0.998	0.992	0.985	0.984
KILPADD	110	0.974	0.974	0.972	0.973	0.975	0.973	0.974	0.971	0.973	0.971	0.973	0.971	0.972	0.972	0.976	0.977	0.977	0.976	0.977	0.975	0.979	0.977	0.979	0.979
KILPADD	220	0.976	0.976	0.974	0.975	0.977	0.975	0.976	0.973	0.975	0.972	0.975	0.973	0.973	0.974	0.978	0.979	0.979	0.978	0.978	0.977	0.981	0.979	0.980	0.980
LANESBOR	110	0.981	0.974	0.985	0.977	0.983	0.976	0.985	0.978	0.984	0.978	0.985	0.978	0.983	0.976	0.993	0.989	0.982	0.975	0.980	0.974	0.981	0.974	0.982	0.975
LOUTHA	110	0.999	1.001	1.002	1.003	1.000	1.002	1.000	1.004	1.001	1.005	1.001	1.004	0.999	1.004	0.998	1.002	0.998	1.001	0.999	1.002	0.998	1.001	0.999	1.003
LOUTH	220	0.998	1.000	1.001	1.002	0.999	1.001	0.999	1.003	1.000	1.003	1.000	1.003	0.999	1.002	0.997	1.000	0.997	1.000	0.998	1.000	0.997	0.999	0.998	1.001
LIMERICK	110	0.980	0.977	0.977	0.976	0.981	0.976	0.980	0.974	0.979	0.974	0.980	0.975	0.977	0.976	0.982	0.980	0.984	0.979	0.983	0.977	0.984	0.979	0.985	0.981
LISDRUM	110	1.008	1.003	1.013	1.006	1.008	1.005	1.012	1.010	1.012	1.010	1.011	1.010	1.007	1.005	1.004	1.003	1.004	1.001	1.004	1.001	1.004	1.001	1.008	1.002
LETTERKE	110	0.985	0.980	0.989	0.982	0.985	0.979	0.987	0.982	0.989	0.983	0.991	0.984	0.985	0.980	0.984	0.977	0.983	0.975	0.984	0.975	0.982	0.974	0.984	0.976
LISHEEN	110	0.987	0.977	0.985	0.977	0.987	0.978	0.987	0.976	0.986	0.977	0.985	0.976	0.987	0.977	0.988	0.978	0.993	0.979	0.989	0.977	0.990	0.977	0.988	0.975
LODGEWOO	110	0.994	0.991	0.988	0.987	0.990	0.988	0.985	0.983	0.984	0.983	0.984	0.983	0.987	0.986	0.988	0.988	0.997	0.993	0.997	0.993	0.998	0.994	0.987	0.987
LODGEWOO	220	0.994	0.992	0.989	0.988	0.991	0.989	0.986	0.984	0.985	0.983	0.984	0.983	0.987	0.987	0.989	0.989	0.998	0.994	0.997	0.994	0.998	0.994	0.988	0.988
MACETOWN	110	1.000	1.001	1.000	1.001	1.000	1.002	1.001	1.002	1.001	1.002	1.001	1.002	1.001	1.000	0.999	1.000	1.002	1.000	1.002	1.003	1.001	1.003	1.000	1.003
MIDLETON	110	0.979	0.976	0.972	0.973	0.981	0.976	0.976	0.972	0.975	0.971	0.973	0.971	0.972	0.975	0.980	0.979	0.987	0.980	0.986	0.979	0.984	0.979	0.980	0.977
MEATH HI	110	1.002	1.003	1.005	1.005	1.002	1.004	1.003	1.006	1.004	1.006	1.004	1.006	1.002	1.003	1.000	1.002	1.001	1.001	1.001	1.001	1.000	1.001	1.001	1.002
MAYNOOTH	220	0.997	0.998	0.996	0.997	0.997	0.997	0.997	0.997	0.997	0.996	0.997	0.997	0.997	0.996	0.996	0.995	0.997	0.998	0.998	0.997	0.998	0.999	0.996	0.998
MACROOM	110	0.975	0.971	0.969	0.969	0.977	0.971	0.973	0.968	0.972	0.967	0.971	0.967	0.968	0.970	0.976	0.974	0.980	0.974	0.979	0.973	0.979	0.973	0.976	0.972
BARNADIV	110	0.976	0.971	0.971	0.969	0.978	0.971	0.975	0.968	0.974	0.968	0.973	0.967	0.969	0.970	0.976	0.974	0.980	0.974	0.979	0.973	0.979	0.973	0.977	0.972
MONETEEN	110	0.977	0.975	0.975	0.974	0.978	0.973	0.977	0.971	0.976	0.971	0.977	0.973	0.974	0.973	0.979	0.977	0.981	0.976	0.980	0.974	0.981	0.976	0.984	0.980
MNYPG1	380	0.978	0.980	0.976	0.979	0.979	0.979	0.977	0.977	0.977	0.976	0.977	0.977	0.976	0.978	0.980	0.983	0.981	0.982	0.980	0.982	0.983	0.985	0.982	0.984
MONEYPOI	110	0.976	0.975	0.973	0.975	0.977	0.975	0.976	0.972	0.975	0.972	0.975	0.973	0.973	0.974	0.978	0.978	0.979	0.977	0.978	0.976	0.980	0.979	0.980	0.979
MONEYPOI	220	0.976	0.978	0.974	0.977	0.977	0.977	0.976	0.975	0.975	0.975	0.975	0.975	0.975	0.977	0.979	0.982	0.979	0.980	0.979	0.980	0.982	0.983	0.981	0.983
MARINA	110	0.979	0.976	0.972	0.973	0.981	0.976	0.978	0.972	0.976	0.971	0.974	0.971	0.972	0.974	0.981	0.979	0.987	0.980	0.986	0.979	0.984	0.978	0.981	0.977
MUNGRET	110	0.977	0.975	0.975	0.974	0.978	0.973	0.977	0.971	0.976	0.971	0.977	0.973	0.974	0.973	0.979	0.977	0.981	0.976	0.980	0.974	0.981	0.976	0.984	0.980
MULLINGA	110	1.006	1.003	1.007	1.004	1.007	1.004	1.008	1.005	1.007	1.005	1.008	1.005	1.006	0.999	1.007	1.003	1.006	1.001	1.004	1.000	1.005	1.001	1.005	1.000
MALLOW	110	0.983	0.978	0.977	0.976	0.985	0.978	0.982	0.975	0.980	0.974	0.979	0.974	0.976	0.977	0.984	0.981	0.988	0.981	0.987	0.980	0.987	0.980	0.984	0.979
MOY	110	1.003	0.995	1.008	0.998	1.006	0.997	1.009	1.000	1.008	1.000	1.008	0.999	1.002	0.996	1.001	0.995	0.990	0.979	0.988	0.978	0.990	0.980	0.992	0.981
MULLAGHA	110	1.002	1.004	1.005	1.006	1.003	1.005	1.004	1.008	1.005	1.008	1.005	1.008	1.002	1.006	1.001	1.004	1.001	1.003	1.002	1.003	1.000	1.003	1.002	1.004
MEENTYCA	110	0.981	0.975	0.985	0.976	0.981	0.975	0.983	0.978	0.984	0.979	0.987	0.980	0.981	0.977	0.979	0.974	0.979	0.970	0.980	0.970	0.977	0.970	0.980	0.972
MONREAD	110	0.997	0.992	0.997	0.992	0.999	0.995	0.999	0.993	0.997	0.993	0.998	0.993	0.998	0.992	0.995	0.991	1.003	1.000	0.995	0.992	0.996	0.992	0.995	0.991
MULREAVY	110	0.982	0.979	0.985	0.980	0.982	0.978	0.983	0.981	0.985	0.982	0.988	0.983	0.983	0.981	0.982	0.979	0.982	0.976	0.982	0.976	0.980	0.975	0.982	0.977
NEWBRIDG	110	0.990	0.982	0.990	0.983	0.993	0.987	0.992	0.984	0.991	0.984	0.991	0.984	0.991	0.984	0.987	0.982	1.000	0.995	0.988	0.983	0.989	0.983	0.987	0.981
NAVAN	110	1.003	1.003	1.005	1.005	1.004	1.004	1.005	1.006	1.005	1.006	1.005	1.006	1.003	1.003	1.001	1.001	1.001	1.001	1.001	1.002	1.001	1.001	1.002	1.002
NORTH WA	220	0.999	0.999	0.999	0.999	0.999	1.000	1.000	1.000	0.999	1.000	0.999	1.000	0.999	0.998	0.998	0.998	0.999	1.000	0.999	1.001	1.000	1.001	0.998	1.000
NENAGH	110	0.987	0.982	0.985	0.981	0.988	0.981	0.988	0.979	0.987	0.980	0.987	0.980	0.984	0.981	0.989	0.984	0.991	0.983	0.990	0.982	0.991	0.983	0.991	0.984
OLDCOURT	110	0.977	0.974	0.969	0.971	0.979	0.974	0.974	0.970	0.973	0.969	0.971	0.969	0.969	0.972	0.979	0.977	0.985	0.978	0.984	0.977	0.982	0.977	0.979	0.975
OUGHTRAG	110	0.979	0.973	0.976	0.973	0.981	0.973	0.979	0.971	0.978	0.971	0.977	0.971	0.975	0.974	0.980	0.978	0.981	0.976	0.981	0.975	0.983	0.977	0.982	0.977
GLENREE	110	0.999	0.991	1.004	0.995	1.001	0.993	1.004	0.996	1.003	0.996	1.004	0.996	0.998	0.993	0.998	0.992								

1617 SINGLE ELECTRICITY MARKET TRANSMISSION LOSS ADJUSTMENT FACTORS - APPROVED TRANSMISSION NODE TLAFS

Station Name	kV	Month																							
		Oct		Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
COOL1-	110	0.989	0.990	0.990	0.991	0.987	0.989	0.987	0.992	0.989	0.992	0.990	0.993	0.987	0.993	0.986	0.990	0.987	0.989	0.989	0.989	0.985	0.987	0.989	0.991
COOLKEER	275	0.991	0.993	0.992	0.994	0.989	0.992	0.989	0.995	0.991	0.995	0.992	0.996	0.989	0.996	0.988	0.993	0.989	0.992	0.991	0.993	0.987	0.990	0.991	0.994
CREAGH	110	0.999	1.001	1.003	1.004	1.000	1.003	1.000	1.006	1.003	1.006	1.002	1.006	1.000	1.006	0.997	1.003	0.998	1.001	0.999	1.001	0.997	1.000	0.999	1.003
CREG1A	110	1.002	1.004	1.006	1.008	1.002	1.006	1.003	1.009	1.005	1.010	1.006	1.010	1.003	1.011	1.000	1.007	1.001	1.005	1.002	1.006	1.000	1.004	1.002	1.006
DONE1C	110	0.999	1.003	1.004	1.006	1.000	1.005	1.000	1.008	1.002	1.008	1.003	1.008	1.000	1.009	0.998	1.005	0.998	1.003	1.000	1.004	0.997	1.002	1.000	1.005
DRUM1-	110	1.000	1.001	1.003	1.004	1.000	1.003	1.001	1.006	1.003	1.006	1.003	1.006	1.000	1.006	0.998	1.003	0.998	1.001	1.000	1.002	0.998	1.001	1.000	1.003
DUNG1-	110	0.998	0.999	1.001	1.002	0.998	1.000	0.999	1.003	1.000	1.003	1.001	1.004	0.998	1.003	0.996	1.000	0.996	0.998	0.998	0.999	0.996	0.998	0.998	1.000
EDEN1A	110	0.998	1.002	1.004	1.007	1.000	1.005	1.000	1.008	1.003	1.009	1.003	1.009	1.000	1.010	0.995	1.004	0.996	1.001	0.998	1.002	0.995	1.000	1.000	1.005
ENNISKIL	110	0.994	0.990	0.999	0.993	0.994	0.991	0.996	0.995	0.998	0.996	0.999	0.996	0.994	0.995	0.992	0.991	0.992	0.989	0.994	0.989	0.991	0.988	0.994	0.990
FINY1A	110	0.999	1.002	1.003	1.006	1.000	1.004	1.000	1.008	1.002	1.008	1.002	1.008	1.000	1.009	0.997	1.005	0.998	1.003	1.000	1.004	0.997	1.002	1.000	1.005
GLEN1A	110	0.998	1.001	1.003	1.004	0.999	1.003	0.999	1.006	1.002	1.006	1.001	1.006	0.999	1.007	0.996	1.003	0.997	1.001	0.999	1.002	0.996	1.000	0.999	1.003
GORT	110	0.994	0.994	0.998	0.996	0.994	0.994	0.994	0.997	0.996	0.997	0.996	0.998	0.993	0.997	0.991	0.994	0.992	0.992	0.993	0.992	0.990	0.991	0.993	0.993
HANA1A	110	0.999	1.002	1.003	1.006	0.999	1.004	1.000	1.007	1.002	1.008	1.002	1.008	1.000	1.009	0.997	1.005	0.998	1.003	1.000	1.004	0.997	1.002	1.000	1.005
HANA2A	275	0.998	1.002	1.002	1.005	0.999	1.004	0.999	1.007	1.001	1.007	1.002	1.007	0.999	1.008	0.997	1.004	0.997	1.002	0.999	1.003	0.997	1.001	0.999	1.004
KELS1-	110	0.996	0.999	1.000	1.003	0.996	1.001	0.996	1.004	0.999	1.004	0.999	1.004	0.996	1.005	0.994	1.001	0.995	1.000	0.997	1.000	0.994	0.999	0.996	1.001
KELS2-	275	0.995	0.999	0.999	1.002	0.996	1.001	0.996	1.004	0.998	1.004	0.998	1.004	0.996	1.005	0.994	1.001	0.995	0.999	0.996	1.000	0.994	0.998	0.996	1.001
KILL1-CL	110	0.987	0.988	0.989	0.989	0.986	0.987	0.986	0.990	0.988	0.990	0.989	0.991	0.986	0.991	0.984	0.987	0.985	0.986	0.987	0.987	0.984	0.985	0.987	0.988
KILR2-	275	0.995	0.999	0.999	1.002	0.995	1.000	0.995	1.003	0.997	1.003	0.998	1.003	0.995	1.004	0.993	1.001	0.994	0.999	0.996	1.000	0.993	0.998	0.995	1.000
KNCK1A	110	1.002	1.004	1.007	1.008	1.003	1.006	1.004	1.010	1.006	1.010	1.006	1.010	1.003	1.011	1.001	1.007	1.001	1.005	1.003	1.006	1.000	1.004	1.003	1.007
LARN1A	110	0.997	1.001	1.002	1.005	0.998	1.003	0.998	1.006	1.000	1.007	1.000	1.006	0.998	1.007	0.994	1.002	0.995	1.000	0.996	1.000	0.994	0.999	0.998	1.003
LIMA1-	110	0.991	0.991	0.995	0.993	0.990	0.991	0.992	0.995	0.994	0.995	0.994	0.996	0.990	0.996	0.988	0.992	0.989	0.990	0.991	0.990	0.988	0.988	0.992	0.992
LIBS1A	110	1.000	1.003	1.004	1.006	1.000	1.005	1.001	1.008	1.003	1.008	1.003	1.008	1.001	1.009	0.998	1.005	0.999	1.003	1.000	1.004	0.998	1.002	1.001	1.005
LSMR1A	110	0.990	0.991	0.991	0.992	0.988	0.990	0.988	0.993	0.990	0.994	0.991	0.994	0.988	0.994	0.987	0.991	0.988	0.989	0.990	0.990	0.986	0.988	0.990	0.992
LOGE1A	110	0.994	0.992	0.998	0.995	0.993	0.993	0.995	0.997	0.997	0.998	0.997	0.998	0.993	0.998	0.991	0.994	0.991	0.992	0.993	0.992	0.990	0.990	0.994	0.994
MAGF2-	275	0.996	0.999	0.999	1.001	0.996	1.000	0.996	1.003	0.998	1.003	0.998	1.003	0.996	1.004	0.994	1.000	0.994	0.998	0.996	0.999	0.994	0.998	0.996	1.000
MAKL1-CL	110	0.983	0.982	0.987	0.984	0.983	0.983	0.984	0.986	0.985	0.986	0.986	0.986	0.983	0.986	0.981	0.982	0.982	0.980	0.983	0.981	0.980	0.979	0.983	0.982
Moyle	275	0.987	0.992	0.991	0.996	0.988	0.994	0.987	0.997	0.990	0.998	0.990	0.997	0.988	0.998	0.985	0.994	0.986	0.993	0.988	0.993	0.985	0.992	0.988	0.995
NARD1B	110	1.003	1.005	1.008	1.009	1.004	1.007	1.005	1.011	1.007	1.011	1.007	1.011	1.004	1.012	1.002	1.008	1.002	1.006	1.004	1.007	1.001	1.005	1.004	1.008
NEWY1B	110	1.005	1.005	1.009	1.008	1.006	1.007	1.008	1.010	1.009	1.011	1.010	1.011	1.006	1.011	1.003	1.007	1.003	1.005	1.005	1.006	1.003	1.004	1.006	1.007
OMAH1-	110	0.992	0.991	0.996	0.993	0.992	0.991	0.993	0.994	0.994	0.995	0.995	0.995	0.991	0.994	0.989	0.991	0.990	0.989	0.991	0.989	0.989	0.988	0.991	0.991
RASHARK1	110	0.994	0.995	0.999	0.998	0.994	0.996	0.995	1.000	0.997	1.000	0.997	1.000	0.994	1.001	0.991	0.997	0.993	0.995	0.994	0.995	0.991	0.994	0.994	0.997
RATH1B	110	1.005	1.006	1.010	1.010	1.006	1.009	1.007	1.013	1.010	1.013	1.010	1.013	1.006	1.014	1.004	1.010	1.004	1.007	1.006	1.008	1.003	1.007	1.006	1.009
ROSE1A	110	1.001	1.004	1.006	1.007	1.002	1.006	1.003	1.009	1.005	1.010	1.005	1.010	1.002	1.010	1.000	1.007	1.000	1.005	1.002	1.005	1.000	1.004	1.002	1.006
SPRN1A	110	0.990	0.991	0.991	0.992	0.987	0.990	0.988	0.993	0.990	0.993	0.991	0.994	0.988	0.994	0.986	0.991	0.987	0.989	0.989	0.990	0.986	0.988	0.990	0.992
STRABANE	110	0.989	0.988	0.991	0.989	0.987	0.988	0.988	0.991	0.990	0.991	0.991	0.992	0.987	0.991	0.986	0.988	0.987	0.986	0.988	0.987	0.985	0.985	0.988	0.988
TAND1A	110	0.999	1.001	1.003	1.003	0.999	1.002	1.000	1.005	1.002	1.005	1.002	1.005	1.000	1.005	0.997	1.002	0.998	1.001	0.999	1.001	0.997	1.000	0.999	1.002
TANDRAGE	275	0.998	1.000	1.001	1.003	0.998	1.002	0.999	1.004	1.000	1.005	1.001	1.005	0.998	1.005	0.996	1.002	0.997	1.000	0.998	1.001	0.996	0.999	0.998	1.002
TREM	110	0.994	0.995	0.997	0.997	0.993	0.995	0.994	0.998	0.996	0.998	0.996	0.998	0.993	0.998	0.991	0.994	0.992	0.992	0.993	0.993	0.991	0.992	0.993	0.994
TAMNAMOR	110	0.997	0.999	1.001	1.001	0.997	1.000	0.998	1.003	1.000	1.003	1.000	1.003	0.997	1.003	0.995	1.000	0.996	0.998	0.997	0.999	0.995	0.998	0.997	1.000
TAMNAMOR	275	0.997	0.999	1.000	1.002	0.997	1.001	0.997	1.003	0.999	1.004	1.000	1.004	0.997	1.004	0.995	1.001	0.996	0.999	0.997	1.000	0.995	0.998	0.997	1.001
WARN1A	110	1.001	1.002	1.005	1.005	1.002	1.004	1.003	1.007	1.004	1.007	1.005	1.007	1.002	1.007	0.999	1.004	1.000	1.002	1.001	1.003	0.999	1.002	1.001	1.004