

To the Company Secretary:

National Grid Electricity Transmission plc
Company Number: 02366977

DIRECTIONS ISSUED BY THE GAS AND ELECTRICITY MARKETS AUTHORITY TO NATIONAL GRID ELECTRICITY TRANSMISSION PLC UNDER THE SPECIAL CONDITIONS OF ITS ELECTRICITY TRANSMISSION LICENCE IN RESPECT OF THE ANNUAL ITERATION PROCESS FOR THE RIIIO-ET1 PRICE CONTROL FINANCIAL MODEL

WHEREAS

1. National Grid Electricity Transmission plc ('the licensee') is the holder of a electricity transmission licence ('the licence') granted or treated as granted under section 6(1)(b) of the Electricity Act 1989 ('the Act').
2. For the purposes of these directions:
 - (a) the expression 'Relevant Year t' has the same meaning as is given to it in Special Condition 1A (Definitions and Interpretation) of the licence, and references to Relevant Year t-1 are to be construed accordingly; and
 - (b) Relevant Year t for the purposes of these Directions is the Relevant Year that commences on 1 April 2018 and ends on 31 March 2019 ('Relevant Year 2018/19').
3. Special Condition 5B (Annual Iteration Process for the ET1 Price Control Financial Model) requires the Gas and Electricity Markets Authority to:
 - (a) carry out the Annual Iteration Process for the ET1 Price Control Financial Model; and
 - (b) direct the value of the term MOD and SOMOD for Relevant Year t, for the purposes of the formulae that are specified in Special Condition 3A (Restriction of Transmission Network Revenue) and Special Condition 4A (Restriction of System Operator Internal Revenue);
by 30 November in Relevant Year t-1.
4. The following Special Conditions provide for the Authority to direct revised PCFM Variable Values for the licensee for the purpose of the Annual Iteration Process for the ET1 Price Control Financial Model that forms part of Special Condition 5B of the licence:
 - (a) Special Condition 6A (Legacy price control adjustments – Transmission Owner) in respect of LAR, (and its component term values IAR, TAR, CAR, and SAR), LRAV, and its component term values IRAV, CRAV, and SRAV and/or Special Condition 7A (Legacy price control adjustments – System Operator) in respect of SOLAR and SOLRAV (and its component term value SOCRAV);
 - (b) Special Condition 6C (Determination of PCFM Variable Values for Totex Incentive Mechanism Adjustments – Transmission Owner) in respect of ALC, ARC, AOC, ACO and ANC values and/or Special Condition 7B (Determination of PCFM Variable Values for Totex Incentive Mechanism Adjustments – System Operator) in respect of SOANC and SOACO values;
 - (c) Special Condition 6D (Specified financial adjustments – Transmission Owner) in respect of EDE, APFE, TTE, TGIE and CDE values and/or Special Condition 7C (Specified financial adjustments – System Operator) in respect of SOEDE, SOAPFE, SOTTE, and SOTGIE and SOCDE values;
 - (d) Special Condition 6E (The Innovation Roll-out Mechanism) in respect of IRM values;
 - (e) Special Condition 6F (Baseline Generation Connections Outputs and Generation Connections volume driver) in respect of GCE;
 - (f) Special Condition 6G (Mitigating the impact of Pre-existing Transmission Infrastructure on the visual amenity of Designated Areas) in respect of EPIE values;
 - (g) Special Condition 6H (Arrangements for the recovery of uncertain costs) in respect of IAEEPS values and/or Special Condition 7D (Arrangements for the recovery of SO uncertain costs) in respect of SOIAEEPS and SOEMRES values;
 - (h) Special Condition 6I (Specification of Baseline Wider Works Outputs and Strategic Wider Works Outputs and Assessment of Allowed Expenditure) in respect of WWE values;
 - (i) Special Condition 6J (Allowed Expenditure for Incremental Wider Works) in respect of IWW values;
 - (j) Special Condition 6K (Allowed Expenditure for meeting planning requirements and volume driver) in respect of UCE values; and
 - (k) Special Condition 6L (Baseline Demand Related Infrastructure Outputs and Allowed Expenditure volume driver) in respect of DRI values.
5. Each of the Special Conditions referred to in paragraph 4:
 - (a) sets out the basis on which any revisions to relevant PCFM Variable Values are to be determined; and
 - (b) where applicable, specifies the price control financial methodology in accordance with which revisions to the relevant PCFM Variable Value(s) are to be determined and the chapter of the ET1 Price Control Financial Handbook containing that methodology.
6. The reason for these directions is to revise PCFM Variable Values as used in the Annual Iteration Process for the ET1 Price Control Financial Model (as each of those terms is defined in Special Condition 1A). The Annual Iteration Process is used to calculate values for the terms MOD and SOMOD that are used in the formulae set out in Special Condition 3A (Restriction of Transmission Network Revenue) and Special Condition 4A (Restriction of System Operator Internal Revenue) respectively.
7. In accordance with requirements set out in the Special Conditions referred to in paragraph 4, on 15 November 2017, the Authority gave notice of the revised PCFM Variable Values that it proposed to direct by 30 November in Relevant Year t-1 and specified that any representations concerning the proposed values should be made within fourteen days of receiving the notice.
8. The Authority received no representations.


NOW the Authority pursuant to the provisions of the Special Conditions referred to in paragraphs 3 and 4, **HEREBY DIRECTS** that:

- the PCFM Variable Values and component term values referred to in paragraph 4 are to be revised as shown in Schedule 1 to these directions; and
- the terms MOD and SOMOD for licensee for Relevant Year 2018/19 are to take the values -£310.2m and £30.1m, respectively.

Schedule 2 to these directions shows the complete PCFM Variable Value Table (as that term is defined in Special Condition 1A) including the values revised under these directions (in bold font) and the values that have not been revised under these directions.

This constitutes notice for the reasons for the Authority's decision pursuant to section 49A of the Act.

Geoffrey Randall



Associate Partner, RIIIO Networks

Duly authorised on behalf of the Gas and Electricity Markets Authority
30 November 2017

SCHEDULE 1 TO THE AUTHORITY'S DIRECTION - REVISIONS TO VARIABLE VALUES (shown to 1 d.p., except CDE shown to 2 d.p.)

National Grid Electricity Transmission plc				Regulatory Year Ending							
PCFM Variable Value				RIIO-ET1							
		Special Condition	Price Base / Units	31 March 2014	31 March 2015	31 March 2016	31 March 2017	31 March 2018	31 March 2019	31 March 2020	31 March 2021
CDE	Allowed percentage cost of debt	6D	Annual Real %	No Revision	No Revision	No Revision	No Revision	No Revision	2.03%	2.03%	2.03%
ALC	Actual load related capex expenditure	6C	£m 09/10 Prices	No Revision	No Revision	No Revision	298.5	No Revision	No Revision	No Revision	No Revision
ARC	Actual asset replacement capex expenditure	6C	£m 09/10 Prices	No Revision	No Revision	No Revision	250.3	No Revision	No Revision	No Revision	No Revision
AOC	Actual other capex expenditure	6C	£m 09/10 Prices	No Revision	No Revision	No Revision	108.2	No Revision	No Revision	No Revision	No Revision
ACO	Actual controllable opex	6C	£m 09/10 Prices	205.8	225.6	229.5	210.6	No Revision	No Revision	No Revision	No Revision
ANC	Actual non-operational capex	6C	£m 09/10 Prices	No Revision	No Revision	No Revision	41.0	No Revision	No Revision	No Revision	No Revision
IAEEPS	Uncertain costs - enhanced security	6H	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
IAEWR	Uncertain costs – workforce renewal (SPTL only)	6H	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
IAEBT	Uncertain costs – BT 21st Century (SHETPLC only)	6H	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
IAEWL	Uncertain costs – compensation costs for landowners for wayleave (SHETPLC only)	6H	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
WWE	Baseline and strategic wider works outputs	6I	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
IWW	Network development and wider works volume driver (NGET only)	6J	£m 09/10 Prices	333.5	169.1	120.4	230.7	No Revision	110.5	118.9	145.1
EPIE	Enhancements to pre-existing infrastructure	6G	£m 09/10 Prices	No Revision	No Revision	0.1	0.1	0.2	No Revision	No Revision	No Revision
DRI	Demand related infrastructure volume driver	6L	£m 09/10 Prices	No Revision	18.4	19.0	29.7	No Revision	No Revision	14.4	2.8
UCE	Undergrounding volume driver	6K	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	12.5
GCE	Generation connections volume driver	6F	£m 09/10 Prices	68.4	101.3	115.8	182.6	No Revision	123.4	117.9	117.4
IRM	Innovation roll out mechanism	6E	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
IAESSCM	Exceptional Sub Sea Cable Faults	6H	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
IAENLUM	Non-load Related Work Costs	6H	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
TGIE	Tax liability - gearing/interest costs	6D	£m Nominal	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
TTE	Tax liability - tax trigger events	6D	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	-4.1	-3.5	No Revision	No Revision
APFE	Pension scheme administration and Pension Protection Fund Levy	6D	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
EDE	Pension Scheme Established Deficit	6D	£m 09/10 Prices	No Revision	No Revision	No Revision	No Revision	No Revision	27.9	27.9	27.9
LAR	Legacy price control adjustments to allowed revenue	6A	£m 09/10 Prices	No Revision							
LRAV	Legacy price control adjustments to RAV	6A	£m 09/10 Prices	No Revision							

National Grid Electricity Transmission plc			Financial Handbook	Price Base	31 March 2014
Incremental Legacy Adjustments used to calculate LAR					
SAR	Logged up and security costs adjustments	Chapter 15	£m 09/10 Prices		-4.0
TAR	Gearing and interest cost adjustments	Chapter 15	£m 09/10 Prices		0.0
CAR	Capex incentive scheme adjustments	Chapter 15	£m 09/10 Prices		63.4
IAR	Transmission asset owner incentive scheme	Chapter 15	£m 09/10 Prices		36.1
Incremental Legacy Adjustments used to calculate LRAV					
SRAV	Logged up and security costs adjustments	Chapter 15	£m 09/10 Prices		13.7
CRAV	Capex incentive scheme adjustments	Chapter 15	£m 09/10 Prices		-182.0
IRAV	Transmission asset owner incentive scheme	Chapter 15	£m 09/10 Prices		-8.5

SCHEDULE 1 TO THE AUTHORITY'S DIRECTION - REVISIONS TO VARIABLE VALUES (shown to 1 d.p., except CDE shown to 2 d.p.)

NGET SO				Regulatory Year Ending									
PCFM Variable Value				Special Condition	Price Base / Units	31 March 2014	31 March 2015	31 March 2016	31 March 2017	31 March 2018	31 March 2019	31 March 2020	31 March 2021
				RIIO-ET1									
SOCDE	Allowed percentage cost of debt	7C	Annual Real %	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	2.03%	2.03%	2.03%
SOANC	Actual non-operational capex	7B	£m 09/10 prices	No Revision	No Revision	No Revision	45.0	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
SOACO	Actual controllable opex	7B	£m 09/10 prices	82.0	79.3	82.4	87.2	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
SOIAEEPS	Uncertain costs - enhanced security	7D	£m 09/10 prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
SOEMRES	Uncertain costs - Electricity Market Reform Enduring Solution	7D	£m 09/10 prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
SOTGIE	Tax liability - gearing/interest costs	7C	£m nominal	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
SOTTE	Tax liability - tax trigger events	7C	£m 09/10 prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
SOAPFE	Pension scheme administration and Pension Protection Fund Levy	7C	£m 09/10 prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision
SOEDE	Pension Scheme Established Deficit	7C	£m 09/10 prices	No Revision	No Revision	No Revision	No Revision	No Revision	No Revision	8.5	8.5	8.5	
SOLAR	Legacy price control adjustments to allowed revenue	7A	£m 09/10 prices	No Revision									
SOLRAV	Legacy price control adjustments to RAV	7A	£m 09/10 prices	No Revision									

NGET SO		Financial Handbook	Price Base	31 March 2014
Incremental Legacy Adjustments used to calculate SOLAR				
SOCAR	Capex incentive scheme adjustments (SO)	Chapter 15	£m 09/10 Prices	0.1
SOOIR	Internal cost incentive (SO)	Chapter 15	£m 09/10 Prices	15.6
Incremental Legacy Adjustments used to calculate SOLRAV				
SOCRAV	Capex incentive scheme adjustments (SO)	Chapter 15	£m 09/10 Prices	2.9

SCHEDULE 2 TO THE AUTHORITY'S DIRECTION - VARIABLE VALUE TABLE

Variable Name	Special Condition	Price Base / Units	Term	Regulatory Year Ending							
				31 March 2014	31 March 2015	31 March 2016	31 March 2017	31 March 2018	31 March 2019	31 March 2020	31 March 2021
Allowed percentage cost of debt	6D	Annual Real %	CDE	2.92%	2.72%	2.55%	2.38%	2.22%	2.03%	2.03%	2.03%
Actual load related capex expenditure	6C	£m 09/10 Prices	ALC	567.3	437.5	400.8	298.5	-	-	-	-
Actual asset replacement capex expenditure	6C	£m 09/10 Prices	ARC	220.0	158.7	181.6	250.3	-	-	-	-
Actual other capex expenditure	6C	£m 09/10 Prices	AOC	181.2	58.6	128.2	108.2	-	-	-	-
Actual controllable opex	6C	£m 09/10 Prices	ACO	205.8	225.6	229.5	210.6	-	-	-	-
Actual non-operational capex	6C	£m 09/10 Prices	ANC	30.4	24.2	31.4	41.0	-	-	-	-
Uncertain costs - enhanced security	6H	£m 09/10 Prices	IAEEPS	17.5	25.5	17.2	39.0	60.6	75.6	45.4	7.0
Uncertain costs – workforce renewal (SPTL only)	6H	£m 09/10 Prices	IAEWR	-	-	-	-	-	-	-	-
Uncertain costs – BT 21st Century (SHETPLC only)	6H	£m 09/10 Prices	IAEBT	-	-	-	-	-	-	-	-
Uncertain costs – compensation costs for landowners for wayleave (SHETPLC only)	6H	£m 09/10 Prices	IAEWL	-	-	-	-	-	-	-	-
Baseline and strategic wider works outputs	6I	£m 09/10 Prices	WWE	161.7	230.4	208.9	20.1	-	-	-	-
Network development and wider works volume driver (NGET only)	6J	£m 09/10 Prices	IWW	333.5	169.1	120.4	230.7	133.2	110.5	118.9	145.1
Enhancements to pre-existing infrastructure	6G	£m 09/10 Prices	EPIE	-	-	0.1	0.1	0.2	0.0	0.0	-
Demand related infrastructure volume driver	6L	£m 09/10 Prices	DRI	20.1	18.4	19.0	29.7	50.6	41.4	14.4	2.8
Undergrounding volume driver	6K	£m 09/10 Prices	UCE	-	-	-	-	-	-	-	12.5
Generation connections volume driver	6F	£m 09/10 Prices	GCE	68.4	101.3	115.8	182.6	117.4	123.4	117.9	117.4
Innovation roll out mechanism	6E	£m 09/10 Prices	IRM	-	-	-	-	-	-	-	-
Exceptional Sub Sea Cable Faults	6H	£m 09/10 Prices	IAESSCM	-	-	-	-	-	-	-	-
Non-load Related Work Costs	6H	£m 09/10 Prices	IAENLUM	-	-	-	-	-	-	-	-
Tax liability - gearing/interest costs	6D	£m Nominal	TGIE	-	-	-	-	-	-	-	-
Tax liability - tax trigger events	6D	£m 09/10 Prices	TTE	-	-	-	-	(4.1)	(3.5)	-	-
Pension scheme administration and Pension Protection Fund Levy	6D	£m 09/10 Prices	APFE	1.5	1.3	1.3	1.5	1.3	1.3	1.5	1.3
Pension Scheme Established Deficit	6D	£m 09/10 Prices	EDE	28.9	28.9	32.6	32.6	32.6	27.9	27.9	27.9
Legacy price control adjustments to allowed revenue	6A	£m 09/10 Prices	LAR	95.5							
Legacy price control adjustments to RAV	6A	£m 09/10 Prices	LRAV	(176.8)							

SCHEDULE 2 TO THE AUTHORITY'S DIRECTION - VARIABLE VALUE TABLE

Variable Name	Special Condition	Price Base / Units	Term	Regulatory Year Ending							
				31 March 2014	31 March 2015	31 March 2016	31 March 2017	31 March 2018	31 March 2019	31 March 2020	31 March 2021
Allowed percentage cost of debt	7C	Annual Real %	SOCDE	2.92%	2.72%	2.55%	2.38%	2.22%	2.03%	2.03%	2.03%
Actual non-operational capex	7B	£m 09/10 prices	SOANC	32.2	34.4	33.4	45.0	-	-	-	-
Actual controllable opex	7B	£m 09/10 prices	SOACO	82.0	79.3	82.4	87.2	-	-	-	-
Uncertain costs - enhanced security	7D	£m 09/10 prices	SOIAEEPS	12.6	-	-	-	-	-	-	-
Uncertain costs - Electricity Market Reform Enduring Solution	7D	£m 09/10 prices	SOEMRES	-	2.8	7.9	6.0	5.7	5.6	5.6	5.4
Tax liability - gearing/interest costs	7C	£m nominal	SOTGIE	-	-	-	-	-	-	-	-
Tax liability - tax trigger events	7C	£m 09/10 prices	SOTTE	-	-	-	-	-	-	-	-
Pension scheme administration and Pension Protection Fund Levy	7C	£m 09/10 prices	SOAPFE	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4
Pension Scheme Established Deficit	7C	£m 09/10 prices	SOEDE	8.8	8.8	9.9	9.9	9.9	8.5	8.5	8.5
Legacy price control adjustments to allowed revenue	7A	£m 09/10 prices	SOLAR	15.7							
Legacy price control adjustments to RAV	7A	£m 09/10 prices	SOLRAV	2.9							