

RP7 - NIE Networks Price Control 2025-2031

Final Determination Annex Q
Planned Network Investment Volumes and
Allowances
30 October 2024



About the Utility Regulator

The Utility Regulator is the independent non-ministerial government department responsible for regulating Northern Ireland's electricity, gas, water and sewerage industries, to promote the short and long-term interests of consumers.

We are not a policy-making department of government, but we make sure that the energy and water utility industries in Northern Ireland are regulated and developed within ministerial policy as set out in our statutory duties.

We are governed by a Board of Directors and are accountable to the Northern Ireland Assembly through financial and annual reporting obligations.

We are based at Queens House in the centre of Belfast. The Chief Executive and two Executive Directors lead teams in each of the main functional areas in the organisation: CEO Office; Price Controls; Networks and Energy Futures; and Markets and Consumer Protection. The staff team includes economists, engineers, accountants, utility specialists, legal advisors and administration professionals.



Abstract

The purpose of this annex is to provide a high-level summary of the total cost requests of the company and the subsequent UR allowances. These costs are split between the distribution and transmission businesses respectively.

This annex is only for summary purposes. Further detail on our cost proposals is set out in the main document and relevant supporting annexes.

Audience

NIE Networks, consumers, consumer representatives, consumer groups, other regulated companies in the energy industry, government, and other bodies with an interest in the energy industry.

Consumer impact

NIE Networks has a pivotal role in terms of 'keeping the lights on'. Both the effectiveness and efficiency of NIE Networks are key to industry and domestic consumers. The RP7 price control aims to set an efficient revenue cap to enable NIE Networks to deliver quality outputs that customers need.

NIE Networks' costs are a material and controllable element of electricity tariffs and RP7 investment decisions are expected to underpin improvements in service delivery for consumers

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1. Definitions

- 1.1 The allowances associated with each sub-programme are calculated by multiplying a unit of measure with unit cost.
- 1.2 The units of measure differ depending on the type of work involved in the sub-programme.
- 1.3 Table 1.1 lists all units of measure used in this annex and their associated descriptions.

Unit of Measure	Description
Each	Reportable output is per unit
Kilometre (Km)	Reportable output is per kilometre (1000m)
Lump Sum	An allowance with no pre-defined outputs. This is the only unit of measure not subject to the D3 mechanism (see RP7 Annex S)
Metre (M)	Reportable output is per metre
MVA	Mega Volt Amp: A measure of transformer capacity
Pole Set	An overhead line support constructed of two wood poles in a 'H' configuration. Only applies to 110kV overhead lines.
Programme	Delivery of all outputs of a defined task over a defined time period (for the purposes of this annex the RP7 time duration). E.g. Address all very high risk sites.
Project	Delivery of a nominated and defined scope of work over a defined time period (for the purposes of this annex the RP7 time duration)
Property	A domestic dwelling or commercial building
Site	An area defined by a boundary wall or fence (e.g. substation)
Span	The conductor erected between two overhead line supports
Tower	An overhead line support constructed of a steel lattice in double circuit or single circuit configuration
Tower Side	The longitudinal face of a double circuit steel lattice tower

Table 1.1: Definitions of Units of Measure

2. Planned Distribution Network Investment Volumes and Allowances (before the application of RPEs)

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
D06	Distribution Tower Lines	D06d	Remedial Works	Lump Sum			100.000
		D06e	Tower Replace Suspension Insulator Set*	Tower Side	12	2.012	24.149
		D06f	Tower Replace Tension Insulator Set*	Tower Side	18	10.147	182.653
		D06g	Tower Painting	Tower	143	2.663	380.876
		D06h	Tower Replace colour and number plates	Tower	72	0.544	39.187
		D06i	Tower Foundation Assessment	Tower	72	2.555	183.982
		D06j	Tower Foundation Repair	Tower	4	115.840	463.360
		D06k	Tower Condition Assessment	Tower	90	0.549	49.392
		D06l	Tower Muff Repair	Each	72	1.277	91.944
		D06m	Tower Muff Painting	Tower	143	0.687	98.241
		D06q	Tower Re-conductoring	Span	30	16.419	492.578
		D06r	Earth Conductor Replacement	Span	20	5.143	102.860
		D06t	Conductor Sampling	Each	27	1.463	39.491
		D06u	Replace Fittings	Tower	24	0.441	10.590
							2,259.302
D07	33kV Overhead Lines	D07a	Re-engineer	km	420	27.304	11,467.728
		D07b	Refurbish	km	840	2.595	2,179.439
		D07e	Undergrounding	Lump Sum	0		3,701.513
		D07l	Switches	Each	60	3.243	194.580
		D07m	Replace Automated Switches	Each	8	10.563	84.507
							17,627.767
D08	11kV Overhead Lines	D08d	Undergrounding	Lump Sum			763.648
		D08e	Remedial Works	Lump Sum			2,780.819
		D08f	Rebuild (11kV)	km	8,731	23.931	208,939.806
		D08g	Low Capacity Tx Replacement	Each	4,330	2.031	8,793.741
		D08i	Birdfouling	Property	4,251	1.329	5,648.598
		D08k	Switches	Each	240	2.283	547.920
		D08l	Replace Automated Switches	Each	20	10.563	211.267
							227,685.799
D09	LV OHL	D09e	Remedial Works	Lump Sum			1,343.263
		D09g	LV Undergrounding	Lump Sum			4,102.119
							5,445.382
D10	Undereaves	D10a	Replace 0.4kV mains and services (Volume Driven)	Property	25,000	0.511	12,774.708
							12,774.708

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
D11	LV Cutouts	D11a	Replace single phase house service cut-outs	Each	14,100	0.288	4,066.736
		D11b	Replace 3-phase service cut-outs	Each	900	1.050	945.000
		D11c	Replace single phase house service cut-outs - LCT related volume driven	Each	1,369	0.288	394.848
		D11d	Replace 3-phase service cut-outs - LCT related volume driven	Each	87	1.050	91.350
							5,497.934
D13	Primary Plant	D13a	Replace indoor switchgear (33kV)	Each	24	146.173	3,508.160
		D13b	Replace outdoor switchgear - circuit breaker (33Kv)	Each	67	67.628	4,531.068
		D13c	Replace outdoor switchgear - complete mesh (with indoor switchboard)	Each	11	162.119	1,783.313
		D13d	Replace outdoor switchgear - mesh equipment (33kV)	Site	6	129.988	714.936
		D13e	Replace primary switchgear (33kV, 11kV & 6.6kV)	Each	55	61.939	3,406.656
		D13i	Civil works to primary substations	Lump Sum			3,322.701
		D13j	Primary substation lease renewal	Site	34	126.494	4,300.800
		D13k	Replace primary switchgear (11kV & 6.6kV) retro-fit	Each	93	23.220	2,159.439
		D13l	Refurbish primary S/S DC system	Site	44	13.567	596.966
		D13m	Rewire primary S/S (inc. AC services panel)	Site	45	18.257	821.577
		D13n	Plant painting (primary)	Site	125	3.317	414.570
		D13o	Replace earth fault indicator	Each	380	1.010	383.891
		D13r	11kV Reyrolle Hardrian SMW Refurbishment	Each	22	19.569	430.518
		D13s	YMV2 Reyrolle Refurbishment	Each	120	19.569	2,348.280
D13u	Asbestos Management	Lump Sum			250.000		
D13v	Primary physical security	Lump Sum			250.376		
							29,223.252
D14	Primary Transformers	D14b	Replace 33/11kV Transformer (upto 12.5MVA)	Each	2	364.264	728.528
		D14c	Replace 33/11kV or 33/6.6kV Transformer (upto 18.75MVA)	Each	30	366.302	10,989.047
		D14g	Transformer refurbishment	Each	5	34.396	171.979
		D14h	Cooler controls replacement	Each	4	2.103	8.412
		D14i	Sump Pumps	Each	186	6.239	1,160.454
		D14j	Transformer Noise Enclosures	Each	8	184.940	1,479.516
		D14k	Noise Surveys	Each	170	2.146	364.818
		D14l	33/11kV Tx Oil Regeneration	Each	31	18.506	573.686
							15,476.440
D15	Secondary Substations	D15a	Replace RMU	Each	200	10.761	2,152.289
		D15b	Replace complete S/S	Each	275	57.060	15,691.594
		D15c	Replace complete S/S and temporary S/S works	Each	37	68.846	2,547.286

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
		D15d	Secondary Switchboard Replacement	Each	50	24.550	1,227.502
		D15e	Replace OH fed GMT	Site	50	56.951	2,847.566
		D15f	Replace H pole S/S	Site	49	19.604	960.586
		D15g	H pole: TX change only	Site	45	6.927	311.724
		D15h	H pole: replace LV cabinet	Each	44	5.219	229.640
		D15k	Replace sectionalisers	Each	139	10.563	1,468.307
		D15l	Replace mini pillars	Each	1,545	3.865	5,971.425
		D15m	Refurbish LV plant	Site	21,323	0.074	1,579.938
		D15n	Replace LV wall mounted fuse board	Each	21	21.466	450.777
		D15o	Secondary substation ancillary works	Lump Sum			1,361.059
		D15q	Replace UDB	Each	114	7.260	827.640
		D15t	RMU substation - mini kiosk	Each	56	54.540	3,054.261
		D15x	Secondary substation legalities	Lump Sum			1,282.365
		D15y	Replace LV Cabinet (GM Substation)	Each	40	16.265	650.600
		D15z	RMU substation - mini kiosk and temp	Each	17	66.326	1,127.535
		D15aa	Fit UDB Blanket	Each	200	0.215	43.000
		D15ac	Secondary substations physical	Lump Sum			3,455.000
							<u>47,240.094</u>
		D16h	Part replacement of 33kV FFC Cable	Metre	3,114	0.303	944.502
		D16i	Replace HV cable	Metre	18,000	0.087	1,573.406
		D16j	Replace LV cable	Metre	78,000	0.139	10,880.173
		D16l	Refurbish 33kV FFC	Site	9	37.559	338.028
D16	Distribution Cables	D16m	Part replacement of 33kV PILC cable	Metre	15,533	0.303	4,711.287
		D16n	Procure leak management technologies	Lump Sum			776.194
		D16o	Procure distribution cable accessories and ancillaries	Lump Sum			346.168
		D16s	Decommission FFC	Lump Sum			50.000
							<u>19,619.759</u>
		D39b	Replace RTU	Each	127	17.494	2,221.738
D39	SCADA	D39c	Control centre hardware & software	Lump Sum			1,713.000
		D39f	SCADA Battery Replacement	Lump Sum			136.118
		D39g	Retrofit Radios	Lump Sum			369.062
							<u>4,439.918</u>
		D41c	PSTN Replacement	Lump Sum			201.380
		D41d	10.5g Radio Creation	Lump Sum			466.154
D41	Operational Telecoms network	D41e	DC Asset Replacement	Lump Sum			357.648
		D41f	OIP Replacement	Lump Sum			553.790
		D41g	Comms Generators	Lump Sum			61.000
		D41h	Comms AC Services	Lump Sum			72.000
		D41j	Mast Replacements	Lump Sum			582.832

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
		D41k	Microwave Asset Replacement	Lump Sum			423.759
		D41l	Optical Distribution Frame Replacement	Lump Sum			47.512
		D41m	Optical Fibre Replacement	Lump Sum			701.231
		D41n	Optical Fibre New	Lump Sum			3,619.000
		D41o	Substation Comms Equipment Replacements	Lump Sum			83.538
		D41p	RAD Assets Replacements	Lump Sum			4,097.500
		D41r	Server Asset Replacements	Lump Sum			124.600
		D41s	Sync Assets Replacement	Lump Sum			68.800
		D41u	Comms Physical Security	Lump Sum			78.500
		D41x	Comms Cyber Security	Lump Sum			391.518
		D41y	Belfast Multi-Core Network	Lump Sum			252.430
		D41z	SCADA IP Transition	Lump Sum			801.592
		D41ab	Capacity Growth	Lump Sum			337.718
		D41ac	Comms Resilience	Lump Sum			617.024
		D41ae	Exchange Closure - Pilot	Lump Sum			16.800
							<u>13,956.326</u>
		D43c	Address very high/high risk sites	Programme			8,462.266
D43	ESQCR - Distribution	D43d	Address LV clearances & OHL refurbishment	km	4,047	29.528	119,499.617
		D43g	Distribution transformers	Each	60	5.379	322.726
		D43h	Resolve looped services	Site	2,589	1.137	2,943.693
		D43i	11kV resilience cut	km	1,570	1.726	2,709.545
		D43s	Primary Transformers Retrofil	Each	8	31.572	252.576
							<u>134,190.422</u>
D50	Substation Flooding Enforcement (D)	D50a	Permanent protection of primary substations	Site	5	111.395	556.975
		D50b	RMU substations - provision of flood protection by raising kiosk	Site	40	10.405	416.200
		D50c	High Water Table Remediation	Site	11	36.955	406.509
							<u>1,379.684</u>
D57	Distribution Network Reinforcement	D57b1	Ballycastle Central	Project			976.325
		D57b2	Ballyfodrin Central	Project			854.254
		D57b3	Brookhill Central	Project			854.320
		D57b4	Buckna Central	Project			107.389
		D57b5	Carrickmore North	Project			471.667
		D57b6	Castledearg South	Project			854.320
		D57b7	Creagh Central	Project			854.320
		D57b8	Garvagh North	Project			854.294
		D57b9	Laragh Central	Project			854.294
		D57b10	Lisnaskea Central	Project			114.860
		D57b11	Monbrief	Project			201.006
		D57b12	Mullaghglass	Project			3,803.640

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
		D57b13	Newcastle North	Project			858.370
		D57b14	Portstewart South	Project			5,262.987
		D57b15	Tullyvannon	Project			1,063.012
		D57b16	Ardboe/Cookstown Mesh	Project			3,591.309
		D57b17	Ballinamallard/Ederny Mesh	Project			292.898
		D57b18	Buckna/Carnlough Mesh	Project			2,871.541
		D57b19	Carrickmore/Pomeroy/Crouk	Project			2,470.561
		D57b20	Cullybackey/Kilrea Mesh	Project			757.506
		D57b21	Cloughy Central/Kircubbin East	Project			1,091.187
		D57b22	Derryleckagh/Kilkeel Mesh	Project			393.263
		D57b23	Going Further Faster	Lump Sum			207.527
		D57c1	Ground Mounted Transformers (Volume Driven)	Site	222	62.444	13,862.546
		D57c2	Pole Mounted Transformers (Volume Driven)	MVA	320	84.719	27,110.142
		D57c3	LV Cable (Volume Driven)	km	260	118.706	30,863.560
		D57c4	LV Overhead Lines (Volume Driven)	km	0	40.423	0.000
		D57c5	LV Cabinet (Volume Driven)	Each	201	16.265	3,269.265
		D57c6	HV Cable (Volume Driven)	km	88	87.411	7,721.363
		D57c7	HV Overhead Line (Volume Driven)	km	437	44.716	19,533.246
		D57c8	HV Circuit Breaker [In contract] (Volume Driven)	Each	36	25.024	900.864
		D57c9	HV Circuit Breaker [Out of contract] (Volume Driven)	Each	0	68.136	0.000
		D57c10	Switch House Extension (Volume Driven)	Each	0	77.406	0.000
		D57c11	Switch House New-Build (Volume Driven)	Each	0	210.836	0.000
		D57c12	TTNO Ground Mounted Transformer (Volume Driven)	Site	202	7.25	1,464.500
		D57c13	TTNO Pole Mounted Transformer (Volume Driven)	Site	46	50.556	2,325.595
		D57c14	TTNO LV Cable (Volume Driven)	km	22.4	43.638	977.491
		D57c15	TTNO LV Overhead Line (Volume Driven)	km	607.5	10.86	6,597.450
		D57c16	TTNO HV Cable (Volume Driven)	km	9	47.678	429.102
		D57c17	TTNO HV Overhead Line (Volume Driven)	km	1267	7.271	9,212.357
		D57l	Reverse Power	Lump Sum			17,962.564
		D57m1	Coolkeeragh Main 33kV Rebuild	km	2.5	55.992	139.980
		D57m2	Coolkeeragh Main 33kV PILC Replacement	km	0.5	303	151.500
		D57m3	Larne Main 33kV Rebuild	km	9.2	55.992	515.126
		D57m4	Larne Main 33kV PILC Replacement	km	4.6	303	1,393.800
		D57m5	Ballynahinch Main 33kV Rebuild	km	25	55.992	1,399.800
		D57m6	Newry Main 11kV New Build	km	3.5	63.111	220.889
		D57n	EHV & HV Monitoring	Lump Sum			1,260.984
							<u>176,972.975</u>
D101	Network Alterations	D101a	Non-recoverable costs	Lump Sum			22,643.495
		D101b	NIRAUC schemes	Lump Sum			29.39724
							<u>22,672.892</u>

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
		D603a	33kV protection retrofit	Each	57	5.879	335.103
		D603b	11kV protection retrofit	Each	243	6.588	1,600.884
		D603e	Automatic Voltage Control replacements	Each	22	17.035	374.770
		D603g	33kV Buscoupler retrofit	Each	13	8.626	112.138
		D603i	33kV Transformer Protection retrofit	Each	36	8.310	299.160
		D603j	33kV Distance Protection retrofit	Each	2	14.351	28.702
		D603k	Unit Protection retrofit - Full Diff / Pilot Box	Each	9	16.172	145.548
		D603k2	Unit Protection retrofit - REF / NVD	Each	6	4.341	26.046
D603	Distribution Protection	D603l	33kV Auto Changeover retrofit	Each	6	20.537	123.222
		D603m	33kV SP Schemes	Each	2	16.265	32.530
		D603o	33kV Substation Monitors	Each	12	22.474	269.688
		D603p	33kV Substation Monitors retrofit	Each	22	5.002	110.044
		D603q	11kV Substation Monitors	Each	2	22.474	44.948
		D603s	11kV Unit Protection retrofit	Each	54	3.893	210.222
		D603u	Mesh VT Replacement	Each	19	15.750	299.250
		D603v	Switchboard VT Replacement	Each	40	19.429	777.160
		D603w	Protection Pilot	Lump Sum			20.000
							<u>4,809.415</u>
D604	Connection Driven System Work	D604a	Connection driven system work	Lump Sum			<u>9,611.187</u>
							<u>9,611.187</u>
D605	Network Access & Commissioning	D605a	Network access & commissioning	Lump Sum			<u>9,514.002</u>
							<u>9,514.002</u>
D701	Earthing	D701a	Earthing Surveys	Site	100	3.246	324.600
		D701b	Earthing Remediation	Site	280	6.952	<u>1,946.560</u>
							<u>2,271.160</u>
D702	Network Performance	D702a	Worst served customers	Lump Sum			3,000.000
		D702b	Active network management	Each	900	11.91	<u>10,719.000</u>
							<u>13,719.000</u>

3. Planned Transmission Network Investment Volumes and Allowances (before the application of RPEs)

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
T10	110kV Switchgear Replacement	T10c	Replace 110kV switchgear	Each	2	259.216	518.432
		T10d	Refurbish 110kV Switchgear	Each	12	18.665	223.980
		T10e	Replace 110kV Circuit Breaker	Each	3	101.841	305.523
							1,047.935
T11	275kV Plant Ancillaries	T11g	Security systems	Lump Sum			1,038.000
		T11j	DC standby systems	Lump Sum			7.319
		T11k	Ballylumford 275kV CVT Replacement	Each	24	22.983	551.582
		T11m	AC rewire	Site	2	45.144	90.289
		T11o	Drainage	Lump Sum			453.044
		T11p	Kilroot 275kV CT Replacement	Each	21	27.240	572.047
		T11r	22kV Capacitor Bank Refurbishment	Lump Sum			45.000
		T11s	Filter Bank Replacement	Lump Sum			22.500
		T11t	275kV Surge Arrestor Replacement	Each	4	29.055	116.220
		T11v	Substation legalities	Lump Sum			250.669
		T11w	Sump Pumps	Each	14	6.864	96.096
		T11x	Earthing Spigots/Parking bars	Lump Sum			56.000
		T11y	Replacement of Signage	Lump Sum			23.370
		T11aa	275/110kV Tx Oil Regeneration	Each	6	56.018	336.108
							3,658.243
T12	110kV Plant Ancillaries	T12d	Transformer bunding	Lump Sum			100.000
		T12f	Generator	Each	19	49.318	937.046
		T12h	DC standby systems	Lump Sum			317.744
		T12i	AC system rewire	Site	8	41.122	328.976
		T12o	Civil works to primary substations	Lump Sum			3,510.338
		T12r	110kV Disconnecter replacement	Each	17	45.238	769.043
		T12s	Drainage Upgrade	Lump Sum			283.150
		T12t	110kV CT Replacement	Each	27	16.756	452.417
		T12v	110kV Surge Arrestor Replacement	Each	4	22.077	88.308
		T12w	110kV Capacitor Bank Replacement	Lump Sum			45.000
		T12x	Transformer Noise Enclosures	Each	4	191.454	765.816
		T12y	Sump Pumps	Each	40	6.864	274.560
		T12z	Earthing Spigots/Parking bars	Lump Sum			154.000
		T12aa	Replacement of Signage	Lump Sum			76.658
		T12ab	110kV Earth Switch Replacement	Each	52	30.092	1,564.784
		T12ac	110/33kV Tx Oil Regeneration	Each	24	37.512	900.288
T12ad	110kV Coffin CTs	Each	6	18.618	111.708		
							10,679.836

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
T13	275kV/110kV Transformer Replacement	T13a	Transformers (275/110kV) Procure only	Each	3	2,208.761	6,626.283
		T13c	Transformers (275/110 kV) Install only	Each	3	692.372	2,077.116
		T13f	Replace associated cable	Lump Sum			1,867.040
							<u>10,570.439</u>
T14	110/33kV Transformers Replacement	T14a	Transformers (110/33 kV)Procure only	Each	6	762.204	4,573.222
		T14b	Transformers (110/33 kV) Install only	Each	6	363.480	2,180.880
		T14c	Replace associated cable	Lump Sum			1,532.495
		T14d	Replace Earthing Transformer	Each	4	66.258	265.032
		T14e	Replace Transformer Cooler	Each	4	86.677	346.708
							<u>8,898.337</u>
T15	22kV Reactor Replacement	T15a	22kV Reactors Procure only	Each	2	553.924	1,107.849
		T15e	22kV Reactors Install only	Each	2	236.027	472.054
							<u>1,579.903</u>
T16	Transmission Transformer Refurbishment	T16a	Refurbish/Replace 275kV Bushing	Each	6	35.562	213.372
		T16b	275kV Plant Painting	Site	4	10.949	43.797
		T16d	Refurbish 275kV TX tap changer	Each	4	19.947	79.787
		T16f	Replace 110kV Bushing	Each	6	11.504	69.025
		T16g	110kV Plant Painting	Site	15	8.600	129.000
		T16i	Refurbish 110kV TX tap changer	Each	22	22.156	487.432
		T16k	Replace 110kV Cooler Controls	Each	7	2.671	18.697
		T16l	Replace PST Tap Changer Control Unit	Each	2	100.000	200.000
		T16m	Replace 275kV Cooler Controls	Each	4	3.637	14.548
							<u>1,255.657</u>
T17	275kV Overhead Line Asset Replacement	T17d	Tower Painting	Tower	360	6.751	2,430.396
		T17e	Replace Colour and Number Plates	Tower	253	0.532	134.624
		T17f	Foundation assessment	Tower	208	2.755	573.115
		T17g	Condition assessment	Tower	310	0.639	198.028
		T17j	Muff Repair	Tower	131	1.277	167.287
		T17k	Trolley Inspections	Span	495	0.437	216.302
		T17m	275kV Remedial	Lump Sum			378.100
		T17n	275kV Steel Work Replacement	Lump Sum			100.000
		T17q	275kV Damper Replacements	Each	122	0.303	36.926
		T17r	275kV Undercrossings	Each	33	12.000	396.000
		T17s	275kV Tower Replacement	Tower	8	800.000	6,400.000
		T17t	275kV Muff Painting	Each	272	0.687	186.864
		T17v	275kV Fittings	Tower	144	0.673	96.982
		T17x	275kV Foundation Repair	Tower	54	115.840	6,255.360
T17y	275kV Tower Security	Lump Sum			520.041		

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
		T17z	275kV Conductor Sampling	Each	25	1.463	36.565
		T17aa	275kV Stepbolt	Tower	253	2.754	696.795
							<u>18,823.386</u>
		T19a	Replace conductor	Span	136	29.752	4,046.287
		T19b	110kV Replace Suspension Insulator	Tower Side	378	2.012	760.702
		T19c	110kV Replace Tension Insulator	Tower Side	92	10.147	933.558
		T19e	Tower Painting	Tower	525	2.663	1,398.320
		T19f	Replace wood poles	Pole set	320	3.781	1,209.972
		T19g	Replace colour and number plates	Tower	100	0.544	54.427
		T19g1	110kV Replace colour and number plates	Tower	85	0.272	23.131
		T19h	Foundation assessment	Tower	389	2.555	994.015
		T19i	Condition assessment	Tower	487	0.684	333.011
		T19n	Muff repairs	Each	183	1.277	233.691
		T19p	110kV Remedial	Lump Sum			350.000
		T19r	110kV Tower Replacement (Single)	Lump Sum			1,400.000
		T19t	110kV Muff Painting	Each	380	0.687	261.060
		T19v	110kV Tower Painting (single)	Tower	326	1.332	434.145
		T19y	110kV Damper Replacements	Each	180	0.303	54.481
		T19z	110kV Foundation Repair	Tower	19	115.840	2,200.960
		T19aa	110kV Steel Work Replacement	Lump Sum			100.000
		T19ab	110kV Tower Security	Lump Sum			967.250
		T19ac	110kV Conductor Sampling	Each	70	1.463	102.383
		T19ad	110kV Step bolts (Single)	Tower	120	0.881	105.759
		T19af	Castlereaugh - Rathgael ADSS recovery	Each	67	1.615	108.174
		T19ag	110kV LV Undercrossings	Each	13	12.000	156.000
		T19ah	110kV Clearances	Lump Sum			450.000
		T19ai	110kV Step bolts (Double)	Tower	187	1.763	329.614
		T19aj	110kv Replace Fittings	Tower	195	0.441	86.041
							<u>17,092.982</u>
		T20k	Refurbish 110kV Cable	Lump Sum			159.171
		T20m	Procurement of Transmission Cables Accessories and Ancillaries	Lump Sum			1,263.322
		T20n	Replacement 110kV FFC Cable	Lump Sum			2,518.035
		T20r	Decommission FFC	Lump Sum			242.007
		T20s	Leak Management Technologies	Lump Sum			133.229
							<u>4,315.764</u>
		T602e	Install 275kV Interbus Transformer Protection	Each	1	70.437	70.437
		T602h	Install 275kV Feeder Protection	Each	8	102.119	816.951
		T602j	Install 275kV Circuit Breaker Fail	Each	48	8.237	395.376
		T602k	Install 22kV Reactors	Each	4	27.600	110.400

ID	Programme Name	Sub-programme	Asset name / further information	Unit of Measure	Volume	Unit Cost (£k)	Direct Allowance (£k)
		T602n	Install 110kV Transformer Protection	Each	17	68.250	1,160.250
		T602o	Install 110kV Distance Protection	Each	16	45.311	724.976
		T602p	Install 110kV Tap Change Control	Each	14	25.960	363.440
		T602r	Install 110kV Load Shedding (Relay Change Only and Minor Wiring)	Each	26	3.174	82.524
		T602t	Install 110kV Unit Protection	Each	10	42.325	423.250
		T602u	Install 110kV Intertripping	Each	2	10.787	21.574
		T602w	Load Shedding Panel	Each	4	10.480	41.920
		T602x	Install 275kV Grid Substation Monitors	Each	2	29.754	59.508
		T602y	Install 110kV Grid Substation Monitors	Each	7	28.895	202.264
		T602aa	Remove Protection	Lump Sum			21.980
		T602ad	Install 275kV Autoreclose	Each	10	49.361	493.610
		T602ae	Install 275kV Operational Intertripping	Lump Sum			140.380
		T602af	Install 110kV Buscoupler	Each	2	31.758	63.516
		T602ah	Install PST Protection	Each	2	91.067	182.134
		T602ai	61850 Hardware Replacement	Lump Sum			150.000
		T602aj	Protection Studies	Lump Sum			22.400
							<u>5,546.890</u>
T603	Network Access & Commissioning	T603a	Network Access & Commissioning	Lump Sum			<u>2,274.471</u>
							<u>2,274.471</u>
T701	Strategic Spares	T701a	Grid Transformer	Lump Sum			2,208.761
		T701b	Main Transformer	Lump Sum			1,524.407
		T701c	Grid Plant	Lump Sum			622.742
							<u>4,355.910</u>
T702	Transmission Earthing	T702a	Earthing Survey	Each	48	4.165	<u>199.920</u>
							<u>199.920</u>