

**LCN Fund Second Tier Full Submission
Spreadsheet**

(version 3.0)

Appendix A

DNO Name:

Western Power Distribution WPDT2003

Submission Date:

22/11/2011

	Input cells
	Totals cells (of formula within worksheet)
	Referencing to other worksheets
	Check cells
	No Input
	Descriptions and pack data
	Ofgem Input cells

Second Tier Funding Request

		2011/12	2012/13	2013/14	2014/15	2015/16	Total
Total Project Cost		<i>From Project Cost Summary sheet</i>					
	Labour	24.25	87.25	29.81	24.39	-	165.70
	Equipment	-	590.34	96.43	-	-	686.77
	Contractors	44.44	561.27	571.79	427.49	-	1,605.00
	IT	-	45.58	16.62	6.00	-	68.20
	IPR Costs	-	-	-	-	-	-
	Travel & Expenses	2.45	28.79	12.12	4.04	-	47.40
Payments to users & Contingency		-	131.13	33.35	6.00	-	170.48
	Decommissioning	-	-	-	-	-	-
	Other	-	16.00	12.00	12.00	-	40.00
	Total	71.15	1,460.37	772.12	479.93	-	2,783.55

External funding		<i>Any funding that will be received from Project Partners and/or External Funders - from Project Cost Summary sheet</i>					
	Labour	-	-	-	-	-	-
	Equipment	-	84.27	6.03	-	-	90.30
	Contractors	5.69	88.95	37.74	32.42	-	164.80
	IT	-	22.05	2.45	-	-	24.50
	IPR Costs	-	-	-	-	-	-
	Travel & Expenses	-	-	-	-	-	-
Payments to users & Contingency		-	-	-	-	-	-
	Decommissioning	-	-	-	-	-	-
	Other	-	-	-	-	-	-
	Total	5.69	195.28	46.22	32.42	-	279.60

DNO extra contribution		<i>Any funding from the DNO which is in excess of the DNO Compulsory Contribution - from Project Cost Summary sheet</i>					
	Labour	-	-	-	-	-	-
	Equipment	-	-	-	-	-	-
	Contractors	-	-	-	-	-	-
	IT	-	-	-	-	-	-
	IPR Costs	-	-	-	-	-	-
	Travel & Expenses	-	-	-	-	-	-
Payments to users & Contingency		-	-	-	-	-	-
	Decommissioning	-	-	-	-	-	-
	Other	-	-	-	-	-	-
	Total	-	-	-	-	-	-

Initial Net Funding Required		<i>calculated from the tables above</i>					
	Labour	24.25	87.25	29.81	24.39	-	165.70
	Equipment	-	506.07	90.40	-	-	596.46
	Contractors	38.75	472.32	534.06	395.08	-	1,440.20
	IT	-	23.53	14.17	6.00	-	43.70
	IPR Costs	-	-	-	-	-	-
	Travel & Expenses	2.45	28.79	12.12	4.04	-	47.40
Payments to users & Contingency		-	131.13	33.35	6.00	-	170.48
	Decommissioning	-	-	-	-	-	-
	Other	-	16.00	12.00	12.00	-	40.00
	Total	65.46	1,265.09	725.90	447.51	-	2,503.95

Check Total = to Initial Net Funding request in Project Cost Summary

OK

Direct Benefits		<i>from Direct Benefits sheet</i>					
	Total	-	-	-	-	-	-

DNO Compulsory Contribution / Direct Benefits		<i>from Project Cost Summary sheet</i>					
	Labour	2.23	7.56	2.80	2.27	-	14.87
	Equipment	-	48.54	9.07	-	-	57.61
	Contractors	4.09	51.63	53.82	39.86	-	149.41
	IT	-	3.53	1.50	0.56	-	5.59
	IPR Costs	-	-	-	-	-	-
	Travel & Expenses	0.23	2.49	1.14	0.38	-	4.24
Payments to users & Contingency		-	11.36	3.14	0.56	-	15.05
	Decommissioning	-	-	-	-	-	-
	Other	-	1.39	1.13	1.12	-	3.63
	Total	6.55	126.51	72.59	44.75	-	250.39

of Total Initial Net Funding Required

OK

Check that **Total** is = or > than Total Direct Benefits

OK

Outstanding Funding required		<i>calculated from the tables above</i>					
	Labour	22.02	79.69	27.01	22.12	-	150.83
	Equipment	-	457.53	81.33	-	-	538.86
	Contractors	34.67	420.68	480.23	355.21	-	1,290.80
	IT	-	20.00	12.67	5.44	-	38.11
	IPR Costs	-	-	-	-	-	-
	Travel & Expenses	2.23	26.30	10.98	3.66	-	43.17
Payments to users & Contingency		-	119.77	30.21	5.44	-	155.43
	Decommissioning	-	-	-	-	-	-
	Other	-	14.61	10.87	10.88	-	36.37
	Total	58.91	1,138.58	653.31	402.76	-	2,253.55

Check that Total is =to Total Outstanding Funding required

OK

balance	2,203.76	0.00	1,006.28	385.07	(3.78)	0.04	2,203.76
interest		0.00	32.10	13.91	3.81	(0.04)	49.79
							2,253.55

Bank of England interest rate	0.5%		SECOND TIER FUNDING REQUEST				£	2,203.76	Tier Funding
interest rate used in calculation	2.0%								
RPI adjustment	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	
Index	239.40	249.54	258.86	267.66	276.24	284.83	293.57	302.53	
Annual inflation	5.71%	4.24%	3.73%	3.40%	3.21%	3.11%	3.07%	3.05%	

n.b the Second Tier Funding Request calculation should use the Bank of England Base rate plus 1.5% on 31 June of the year in which the Full Submission is made.

click this button to calculate the Second Tier Funding Request

Direct Benefits

Direct Benefit: Any benefits of the Project accruing to the DNO during the Project Implementation and include the following

- Revenue included in the DNO's Full Business Plan Questionnaire (FBPQ) for DPCR5 which will be saved through undertaking the project
- Incentive payments generated as a result of the Project for the duration of the Project

Description of Direct Benefit	Value of Direct Benefit				
	2011/12	2012/13	2013/14	2014/15	Total
					-
					-
					-
Total Direct Benefits	-	-	-	-	-

n.b. These are Direct Benefits associated with the Project itself, not the wider deployment of the Solution and therefore should not exceed beyond the project or the DPCR5 period

Net Financial Benefit - The difference between the :
Base Case Costs i.e. the estimated costs of delivering the Solution(s) at the scale being trialled in the project) through the most efficient method currently in use on the GB Distribution System
Method Costs i.e. the estimated costs of replicating the Method, once it has been proven successful, at the scale being tested in the project.

DNOs can provide notes alongside costing in order to aid understanding of why these costs are required. This should be supplemented by a fuller qualitative account of the Base Case method and Method in the appendices.

Method 1 -

Base Case costs		Description
£2,548,800		2015 - Network reinforcement on 40 distribution substations using conventional network reinforcement
£3,823,200		2016 - Network reinforcement on 60 distribution substations using conventional network reinforcement
£5,097,600		2017 - Network reinforcement on 80 distribution substations using conventional network reinforcement
£6,372,000		2018 - Network reinforcement on 100 distribution substations using conventional network reinforcement
£7,646,400		2019 - Network reinforcement on 120 distribution substations using conventional network reinforcement
£8,920,800		2020 - Network reinforcement on 140 distribution substations using conventional network reinforcement
£10,195,200		2021 - Network reinforcement on 180 distribution substations using conventional network reinforcement
£11,469,600		2022 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2023 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2024 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2025 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2026 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2027 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2028 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2029 - Network reinforcement on 200 distribution substations using conventional network reinforcement
£12,744,000		2030 - Network reinforcement on 200 distribution substations using conventional network reinforcement
Total	£158,025,600	

Method Costs		Description
£1,956,000.00		2015 - Network reinforcement on 40 distribution substations using BRISTOL
£2,934,000.00		2016 - Network reinforcement on 60 distribution substations using BRISTOL
£3,912,000.00		2017 - Network reinforcement on 80 distribution substations using BRISTOL
£4,890,000.00		2018 - Network reinforcement on 100 distribution substations using BRISTOL
£5,868,000.00		2019 - Network reinforcement on 120 distribution substations using BRISTOL
£6,846,000.00		2020 - Network reinforcement on 140 distribution substations using BRISTOL
£7,824,000.00		2021 - Network reinforcement on 180 distribution substations using BRISTOL
£8,802,000.00		2022 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2023 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2024 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2025 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2026 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2027 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2028 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2029 - Network reinforcement on 200 distribution substations using BRISTOL
£9,780,000.00		2030 - Network reinforcement on 200 distribution substations using BRISTOL
Total	£121,272,000	
Net financial benefit		£36,753,600