

SP AusNet Report on Distribution Loss Factors for Average and Qualified Customers for the FY2008/09

12 March 2008

Table of Contents

1 Background..... 3

2 Base Case (with Qualified Customers) 3

3 Base Case (without Qualified Customers) 4

4 Forecast DLFs for Average Customers..... 5

5 Forecast DLFs for Qualified Customers 5

6 Overall Forecast Energy Sales and Energy Losses for FY2008/09 6

1 Background

The Australian Energy Regulator (AER) performs economic regulation of the wholesale electricity market and electricity transmission networks in the National Electricity Market (NEM), and enforcement of the National Electricity Law and National Electricity Rules. It is responsible for the approval Distribution Loss Factors (DLFs) applicable to the Victorian jurisdiction pursuant to clause 3.6.3(i) of the National Electricity Rules (the Rules), which states that:

...Before providing the distribution loss factors to NEMMCO for publication, the Distribution Network Service Provider must obtain the approval of the relevant Jurisdictional Regulator for the distribution loss factors it has determined for the next financial year.

This document outlines the information required for the approval of DLFs for the FY2008/09.

2 Base Case (with Qualified Customers)

The table below shows the summary of actual total energy purchased and sales for the FY 2006/07. The resulting top-down energy loss was then used to scale the calculated bottom-up energy loss to ensure that DLFs for each network levels are accurately derived and allocated.

2008 / 2009 DLF Submission						
28-Feb-08						
Base Case						
Company Name	SP AusNet					
Energy Procured (MWh)						
Energy obtained from transmission connections	7,471,395					
Energy obtained from embedded generation and other distributors	288,692					
Total Energy Procured (pa)	7,760,088					
<i>Note: Excludes Latrobe Valley area</i>						
Energy Supplied (MWh)						
Total annual energy supplied	7,187,940					
Less supply to other distributors						
Net Energy Supplied (pa)	7,187,940					
<i>Note: Excludes Latrobe Valley area</i>						
Net Energy Supplied (MWh) - Base Case						
Sales (MWh) - Aggregated using Network Tariffs						
	Subtransmission	Zone Sub	HV Lines	Dist Trans	LV Lines	Total
Financial Year 2005/06	302,069	0	682,654	1,232,097	4,971,120	7,187,940
Net Energy Supplied (MWh)						
	DLF A	DLF B	DLF C	DLF D	DLF E	Total
Short Subtransmission	162,223	-	366,613	661,687	2,669,697	3,860,221
Long Subtransmission	139,845	-	316,040	570,410	2,301,423	3,327,718
Total	302,069	0	682,654	1,232,097	4,971,120	7,187,940
Calculated Annual Losses (MWh)						
	DLF A	DLF B	DLF C	DLF D	DLF E	Total
Short Subtransmission	22,308	28,827	94,996	75,914	21,196	243,241
Long Subtransmission	138,450	24,851	81,892	65,442	18,272	328,907
Total	160,758	53,678	176,888	141,356	39,468	572,148
DLF-Base Case						
	DLF A	DLF B	DLF C	DLF D	DLF E	
Short Subtransmission	1.0058	1.0136	1.0393	1.0621	1.0700	
Long Subtransmission	1.0416	1.0494	1.0751	1.0979	1.1058	

3 Base Case (without Qualified Customers)

The table below shows the resulting DLFs if Qualified Customers (QCs) are excluded. In this table, QC actual energy consumptions and their share of "scaled" bottom-up energy losses were taken out.

2008 / 2009 DLF Submission						
28-Feb-08						
Excluding Qualified Customers - Before Forecast						
Company Name	SP AusNet					
Energy Procured (MWh)						
Energy obtained from transmission connections						7,471,395
Energy obtained from embedded generation and other distributors						288,692
Total Energy Procured (pa)						7,760,088
<i>Note: Excludes Latrobe Valley area</i>						
Energy Supplied (MWh)						
Total annual energy supplied						7,187,940
Less supply to other distributors						
Less supply to qualified end users						332,992
Net Energy Supplied (pa)						6,854,948
<i>Note: Excludes Latrobe Valley area</i>						
Net Energy Supplied (MWh) - Base Case						
Sales (MWh) - Aggregated using Network Tariffs						
	Subtransmission	Zone Sub	HV Lines	Dist Trans	LV Lines	Total
Financial Year 2006/07	302,069	0	682,654	1,232,097	4,971,120	7,187,940
Qualified end users	283,371	0	49,621	0	0	332,992
Excluding Qualified end users	18,698	0	633,032	1,232,097	4,971,120	6,854,948
Net Energy Supplied (MWh)						
	DLF A	DLF B	DLF C	DLF D	DLF E	Total
Short Subtransmission	9,833	-	332,897	647,931	2,614,195	3,604,856
Long Subtransmission	8,865	-	300,135	584,166	2,356,925	3,250,092
Total	18,698	0	633,032	1,232,097	4,971,120	6,854,948
Calculated Annual Losses (MWh)						
	DLF A	DLF B	DLF C	DLF D	DLF E	Total
Short Subtransmission	21,099	28,179	92,961	74,336	20,755	237,330
Long Subtransmission	140,167	25,406	83,812	67,020	18,713	335,118
Total	161,266	53,585	176,773	141,356	39,468	572,448
DLF						
	DLF A	DLF B	DLF C	DLF D	DLF E	
Short Subtransmission	1.0059	1.0137	1.0395	1.0623	1.0703	
Long Subtransmission	1.0431	1.0510	1.0768	1.0996	1.1076	

4 Forecast DLFs for Average Customers

The table below summarises the forecast energy sales, energy losses and DLFs applicable to second tier customers for FY2008/09.

2008 / 2009 DLF Submission						
28-Feb-07						
Excluding Qualified Customers - After Forecast						
Company Name	SP AusNet					
Net Energy Supplied (MWh) - Base Case						
Sales (MWh) - Aggregated using Network Tariffs						
	Subtransmission	Zone Sub	HV Lines	Dist Trans	LV Lines	Total
Total Forecast 2007/08 FY	320,163	0	723,545	1,305,900	5,268,891	7,618,499
Qualified end users	300,344	0	52,594	0	0	352,938
Excluding Qualified end users	19,818	0	670,951	1,305,900	5,268,891	7,265,561
Net Energy Supplied (MWh)						
	DLF A	DLF B	DLF C	DLF D	DLF E	Total
Short Subtransmission	10,422	-	352,837	686,742	2,770,786	3,820,788
Long Subtransmission	9,396	-	318,114	619,158	2,498,105	3,444,773
Total	19,818	0	670,951	1,305,900	5,268,891	7,265,561
Calculated Annual Losses (MWh)						
	DLF A	DLF B	DLF C	DLF D	DLF E	Total
Short Subtransmission	22,391	29,911	98,676	78,693	21,947	251,618
Long Subtransmission	148,751	26,968	88,965	70,948	19,787	355,419
Total	171,143	56,879	187,641	149,641	41,734	607,037
DLF						
	DLF A	DLF B	DLF C	DLF D	DLF E	
Short Subtransmission	1.0059	1.0137	1.0396	1.0624	1.0703	
Long Subtransmission	1.0432	1.0510	1.0769	1.0997	1.1076	

5 Forecast DLFs for Qualified Customers

Table below indicates the customers who are qualified for end-user DLF based on their actual energy sales and demand in FY2006/07 as specified in the Code.

Information withheld by the AER

The table below shows the forecast DLFs for these customers for FY2008/09.

Information withheld by the AER

6 Overall Forecast Energy Sales and Energy Losses for FY2008/09

The table below summarises the overall forecast values on energy sales and losses for the financial year 2008/09.

Information withheld by the AER