

Western Power Benchmarking Data Inputs

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DRAB0402	Inflation addition	\$'000	6,807	18,184	7,230	18,932	25,213	9,231	20,535	31,009	17,914	13,360
DRAB0403	Straight line depreciation	\$'000	22,993	25,672	28,249	35,494	39,868	44,188	47,474	57,161	67,818	78,603
DRAB0404	Regulatory depreciation	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0405	Actual additions (recognised in RAB)	\$'000	91,346	99,944	145,108	96,509	98,552	110,248	196,176	183,556	200,198	181,201
DRAB0406	Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0407	Closing value for distribution substations and transformers asset value	\$'000	403,384	495,840	619,929	699,876	783,773	859,065	1,028,302	1,185,707	1,336,001	1,451,959
Zone substations and transformers												
DRAB0701	Opening value	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0702	Inflation addition	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0703	Straight line depreciation	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0704	Regulatory depreciation	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0705	Actual additions (recognised in RAB)	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0706	Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0707	Closing value for zone substations and transformers	\$'000	-	-	-	-	-	-	-	-	-	-
For easements:												
DRAB0801	Opening value	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0802	Inflation addition	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0805	Actual additions (recognised in RAB)	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0806	Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0807	Closing value for easements asset value	\$'000	-	-	-	-	-	-	-	-	-	-
For meters:												
DRAB0901	Opening value	\$'000	173,294	171,469	165,173	162,181	156,858	151,348	147,423	137,516	121,405	104,378
DRAB0902	Inflation addition	\$'000	9,615	11,206	12,744	11,242	16,067	16,785	11,536	8,960	11,825	23,168
DRAB0903	Straight line depreciation	\$'000	18,836	19,876	20,542	22,019	23,339	24,152	25,468	26,878	29,884	14,200
DRAB0904	Regulatory depreciation	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0905	Actual additions (recognised in RAB)	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0906	Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB0907	Closing value for meters asset value	\$'000	164,073	162,799	157,375	151,403	149,586	143,981	133,491	119,598	103,345	113,346
For "other" asset items with long lives:												
DRAB1001	Opening value	\$'000	73,316	78,110	83,649	99,477	105,273	119,364	793,352	814,522	820,755	815,460
DRAB1002	Inflation addition	\$'000	1,520	3,521	1,220	3,038	3,793	1,406	18,965	24,562	12,400	8,155
DRAB1003	Straight line depreciation	\$'000	4,670	6,183	7,793	8,896	10,797	13,792	22,220	25,424	28,325	30,478
DRAB1004	Regulatory depreciation	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB1005	Actual additions (recognised in RAB)	\$'000	8,139	8,201	22,402	11,654	21,097	687,623	25,309	7,127	14,261	17,331
DRAB1006	Disposals	\$'000	196	-	-	-	1	1,249	883	32	3,631	-
DRAB1007	Closing value for "other" asset (long life) value	\$'000	78,110	83,649	99,477	105,273	119,364	793,352	814,522	820,755	815,460	810,468
For "other" asset items with short lives:												
DRAB1101	Opening value	\$'000	15,558	30,383	58,778	73,022	79,081	93,374	110,501	116,554	112,740	109,886
DRAB1102	Inflation addition	\$'000	323	1,370	857	2,230	2,849	1,100	2,641	3,515	1,703	1,099
DRAB1103	Straight line depreciation	\$'000	1,621	3,677	5,464	8,643	10,848	13,396	15,517	20,542	25,310	27,850
DRAB1104	Regulatory depreciation	\$'000	-	-	-	-	-	-	-	-	-	-
DRAB1105	Actual additions (recognised in RAB)	\$'000	16,123	30,703	18,850	13,311	22,292	29,495	18,929	13,213	20,753	12,462
DRAB1106	Disposals	\$'000	-	-	-	-	839	-	73	-	-	-
DRAB1107	Closing value for "other" asset (short life) value	\$'000	30,383	58,778	73,022	79,081	93,374	110,501	116,554	112,740	109,886	95,597
Transformer Capacity												
DPA0501	Distribution transformer capacity owned by utility	MVA	6,515	6,899	7,237	7,605	8,153	8,579	8,704	9,203	9,577	9,827
DPA0502	Distribution transformer capacity owned by High Voltage Customer	MVA	-	-	-	-	-	-	-	-	-	-
DPA0503	Cold spare capacity included in DPA0501	MVA	267	273	296	307	322	330	329	352	370	366
DPA0601	Total installed capacity for first step transformation where there are two steps to reach distribution voltage	MVA	87	87	87	87	87	87	87	87	87	87
DPA0602	Total installed capacity for second step transformation where there are two steps to reach distribution voltage	MVA	68	68	68	68	68	68	68	68	68	68
DPA0603	Total zone substation transformer capacity where there is only a single step transformation to reach distribution voltage	MVA	6,586	6,927	7,202	7,641	8,008	8,311	8,594	8,665	9,166	7,927
DPA0604	Total zone substation transformer capacity	MVA	6,741	7,083	7,358	7,797	8,163	8,467	8,750	8,821	9,005	8,082
	Total Transformer Capacity	MVA	13,162	13,982	14,594	15,402	16,316	17,045	17,453	18,023	18,582	17,909

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Firm Name:	WESTERN
Industry:	Electricity
Sector:	Transmission
Annual Data	

Variable Description	Units	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total energy delivered	GWh	15,754	15,896	15,572	16,354	16,782	16,741	16,893	17,306	17,231	17,613
Transmission Revenues	\$'000	200,405	208,500	207,063	270,326	345,421	387,876	387,303	363,667	350,264	324,252
Overhead network length of circuit at each voltage											
330 kV	km	1,028	1,008	1,078	1,103	1,103	1,102	1,102	1,103	1,382	1,382
220 kV	km	654	654	654	654	654	655	655	654	655	654
132 kV	km	4,543	4,553	4,439	4,353	4,281	4,390	4,275	4,451	4,469	4,395
66 kV	km	1,043	1,033	1,050	1,039	1,031	1,033	1,031	1,040	1,048	1,026
33 kV	km	115	114	114	105	105	105	105	107	108	106
22 kV	km										
Overhead unknown	km										
Underground network circuit length at each voltage											
330 kV	km	0	0	0	0	0	1	1	1	1	1
132 kV	km	10	17	18	18	18	34	34	34	34	35
66 kV	km	2	7	7	6	6	17	17	17	18	18
22 kV	km										
Overhead network MVA capacity by voltage class											
330 kV	MVA	1,028	1,034	1,039	1,039	1,039	1,039	1,039	1,039	1,039	1,039
220 kV	MVA	376	376	376	376	369	369	369	369	369	369
132 kV	MVA	127	127	126	132	132	131	131	131	131	132
66 kV	MVA	39	39	39	38	38	38	38	38	38	38
33 kV	MVA	20	20	20	20	20	20	20	20	20	20
22 kV	MVA										
Underground network MVA capacity by voltage class											
330 kV	MVA	386	386	386	386	386	386	386	386	386	386
132 kV	MVA	207	206	206	205	205	203	203	203	203	203
66 kV	MVA	27	27	27	27	27	27	27	27	27	27
33 kV	MVA										
Non-Coincident System Annual peak Demand	MVA	3,615	3,956	4,105	4,281	4,441	4,273	4,257	4,305	4,263	4,202
Entry and exit	number	167	172	181	189	195	198	201	203	200	200
Reliability											
Average Duration		834	715	501	679	675	844	866	795	720	1,265
No. of outages		186	186	167	195	175	226	190	165	244	248
Total customer minutes	number	155,124	132,990	83,667	132,405	118,125	190,744	164,540	131,175	175,680	313,720
Total Customers		894,545	925,325	950,866	970,973	991,776	1,009,809	1,027,873	1,045,917	1,063,965	1,123,856
Current Allocations											
Operations	\$'000	22,575	24,660	18,291	20,068	23,486	23,784	30,897	23,235	20,816	23,814
Maintenance	\$'000	30,100	28,700	30,220	26,849	39,671	45,369	44,202	41,095	42,346	47,585
Customer Service and Billing	\$'000	-	-	-	-	-	-	-	-	-	-
Corporate	\$'000	17,229	20,029	24,560	39,480	46,143	34,509	32,837	40,191	31,757	39,171
Other	\$'000	-	-	13,367	415	5,047	46,578	10,724	12,499	22,093	10,081
TOTAL OPEX	\$'000	69,904	73,389	86,438	86,812	114,347	150,240	118,660	117,020	117,012	120,651
For overhead network assets											
Opening value	\$'000	537,929	616,132	743,092	834,794	897,110	944,860	963,212	994,309	1,041,615	1,091,171
Inflation addition	\$'000	11,156	27,775	10,835	25,494	32,319	11,128	23,025	29,984	15,737	22,915
Straight line depreciation	\$'000	-17,462	-19,766	-21,608	-24,705	-28,003	-32,975	-29,107	-30,899	-32,546	-30,851
Regulatory depreciation	\$'000	-6,306	8,009	-10,773	789	4,316	-21,846	-6,082	915	-16,808	-7,935
Actual additions (recognised in RAB)	\$'000	84,510	118,951	102,476	61,527	43,434	40,199	37,179	48,221	34,350	39,917
Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
Closing value for overhead transmission assets	\$'000	609,826	751,101	824,021	897,899	949,176	941,366	988,228	1,040,699	1,042,349	1,115,217
For overhead network assets 66kV											
Opening value	\$'000	75,189	85,823	105,596	118,685	127,964	133,939	138,498	144,002	149,269	154,729
Inflation addition	\$'000	1,559	3,869	1,540	3,625	4,610	1,578	3,311	1,867	1,217	2,132
Straight line depreciation	\$'000	-2,441	-2,753	-3,071	-3,512	-3,994	-4,674	-4,185	-4,475	-4,571	-4,411
Regulatory depreciation	\$'000	-881	1,116	-1,531	112	616	-3,097	-874	-2,609	-3,354	-2,279
Actual additions (recognised in RAB)	\$'000	11,812	16,569	14,562	8,747	6,195	5,698	5,346	4,897	4,472	4,905
Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
Closing value for overhead asset	\$'000	85,238	104,623	117,096	127,657	135,390	133,443	142,095	143,681	147,034	155,076

For underground network assets											
Opening value	\$'000	12,199	16,716	21,146	25,702	30,352	32,782	33,216	49,662	79,956	88,604
Inflation addition	\$'000	253	754	308	785	1,093	386	794	1,498	1,208	886
Straight line depreciation	\$'000	- 327	- 436	- 571	- 616	- 755	- 901	- 802	- 1,360	- 2,161	- 2,611
Regulatory depreciation	\$'000										
Actual additions (recognised in RAB)	\$'000	4,590	4,112	4,820	4,480	2,091	949	16,454	30,157	9,601	3,362
Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
Closing value for Underground assets	\$'000	16,716	21,146	25,702	30,352	32,782	33,216	49,662	79,956	88,604	90,241
For Underground network assets 66kV											
Opening value	\$'000	1,882	4,645	5,806	6,545	7,729	10,889	11,034	13,152	14,726	16,489
Inflation addition	\$'000	39	209	85	200	278	128	264	291	322	322
Straight line depreciation	\$'000	- 50	- 121	- 157	- 157	- 192	- 299	- 266	- 333	- 373	- 373
Regulatory depreciation	\$'000	- 50	- 121	- 157	- 157	- 192	- 299	- 266	- 333	- 373	- 373
Actual additions (recognised in RAB)	\$'000	708	1,143	1,323	1,141	533	315	5,456	3,160	3,567	4,061
Disposals	\$'000	-	-	-	-	-	-	-	-	-	-
Closing value for underground assets	\$'000	2,529	5,755	6,900	7,573	8,156	10,734	16,220	15,936	17,869	20,126
Transformers and sub-stations											
Opening value	\$'000	795,137	931,872	1,071,206	1,207,474	1,300,391	1,377,360	1,411,401	1,520,862	1,738,469	1,792,402
Inflation addition	\$'000	16,490	42,008	15,619	36,875	46,847	16,222	33,739	45,863	26,266	17,924
Straight line depreciation	\$'000	- 29,505	- 32,758	- 35,297	- 40,929	- 44,866	- 50,225	- 48,698	- 54,597	- 60,911	- 65,692
Regulatory depreciation	\$'000										
Actual additions (recognised in RAB)	\$'000	149,844	131,494	155,946	101,024	75,194	68,042	126,775	226,962	94,689	74,603
Disposals	\$'000	- 94	- 1,411	-	- 4,054	- 205	-	- 2,355	- 620	- 6,112	-
Closing value for Transformers and sub-stations	\$'000	931,872	1,071,206	1,207,474	1,300,391	1,377,360	1,411,401	1,520,862	1,738,469	1,792,402	1,819,237
Easements											
Opening value	\$'000	9,591	12,381	15,185	18,164	20,542	22,415	23,260	27,511	35,688	37,394
Inflation addition	\$'000	199	558	221	555	740	264	556	830	539	374
Straight line depreciation	\$'000	-	-	-	-	-	-	-	-	-	-
Regulatory depreciation	\$'000										
Actual additions (recognised in RAB)	\$'000	2,604	2,458	2,757	2,429	1,164	581	4,047	7,440	2,081	776
Disposals	\$'000	- 14	- 211	-	- 606	- 31	-	- 352	- 93	- 914	-
Closing value for Easements	\$'000	12,381	15,185	18,164	20,542	22,415	23,260	27,511	35,688	37,394	38,544
Other Assets with long lives											
Opening value	\$'000	36,907	40,879	44,585	51,122	58,939	71,308	83,125	95,740	103,916	104,637
Inflation addition	\$'000	765	1,843	650	1,561	2,123	840	1,987	2,887	1,570	1,046
Straight line depreciation	\$'000	- 2,187	- 3,174	- 4,286	- 3,016	- 3,443	- 4,059	- 5,382	- 6,340	- 7,251	- 7,873
Regulatory depreciation	\$'000										
Actual additions (recognised in RAB)	\$'000	5,409	5,258	10,172	9,906	13,721	15,036	16,379	11,727	7,826	9,372
Disposals	\$'000	- 15	- 221	-	- 634	- 32	-	- 368	- 97	- 1,424	-
Closing value for assets with long lives	\$'000	40,879	44,585	51,122	58,939	71,308	83,125	95,740	103,916	104,637	107,183
Other Assets with short lives											
Opening value	\$'000	2,705	7,422	16,993	22,353	28,360	40,578	143,038	151,514	155,177	156,665
Inflation addition	\$'000	56	335	248	683	1,022	478	3,419	4,569	2,345	1,567
Straight line depreciation	\$'000	- 657	- 824	- 1,020	- 2,117	- 1,979	- 2,338	- 4,489	- 7,401	- 10,229	- 11,947
Regulatory depreciation	\$'000										
Actual additions (recognised in RAB)	\$'000	5,319	10,060	6,132	7,971	13,175	104,359	9,545	6,495	9,372	5,192
Disposals	\$'000	-	-	-	- 530	-	- 39	-	-	-	-
Closing value for assets with short lives	\$'000	7,422	16,993	22,353	28,360	40,578	143,038	151,514	155,177	156,665	151,476
Distribution transformer capacity owned by utility											
	MVA	12,591	13,913	14,203	16,112	17,692	18,518	18,801	19,464	20,794	19,675