

Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report

1st April 2017 – 31st March 2018 as required under Licence
Special Condition 1F.14

July 2018



REPORTS

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1. Executive Summary

This is a report, as required under Licence 1F.14 setting out the actual leakage volume (LV_{t,i}) and actual shrinkage volume (ASV_t) as calculated in accordance with the Shrinkage and Leakage Model for each Local Distribution Zone (LDZ) within Wales & West Utilities.

The Shrinkage and Leakage Model used is the latest approved version by Ofgem. The current version being v1.4 which was approved on 16th September 2014.

Please note the values contained within this document have been rounded to an appropriate level of accuracy. This may cause immaterial discrepancies between the totals presented within this document and the summation of their constituent parts, however each individual figure is correct in its rounded form.

2. Actual Shrinkage and Leakage Volumes

Table 1: Leakage and Shrinkage per LDZ (GWh)

LDZ	Actual Total Leakage, LV _{t,i} (GWh)	Actual Total Shrinkage, ASV _t (GWh)
Wales North	44.69	46.78
Wales South	99.61	109.03
South West	206.11	215.71
Network Total	350.41	371.52

Table 2: Low Pressure Leakage

LDZ	Low Pressure				
	Metallic Mains Length (km)	Average System Pressure – All PE networks excluded (mbar)	MEG Saturation	No. Customers	Leakage (GWh)
Wales North	650	30.75	-	248,624	20.52
Wales South	1,839	32.60	-	817,919	67.18
South West	4,662	29.91	-	1,422,404	156.88
Network Total	7,152	30.82¹	-	2,488,947	244.57

¹ Weighted network average pressure

Table 3: Medium Pressure Leakage

Medium Pressure		
	Metallic Mains Length (km)	Leakage (GWh)
Wales North	83.66	3.44
Wales South	267.56	9.68
South West	769.10	18.78
Network Total	1120.31	31.91

Table 4: Above Ground Installation and Interference

	AGI				Interference	
	No. Sites	Leakage (GWh)	Venting (GWh)	AGI Total (GWh)	No. of Incidents	Leakage (GWh)
Wales North	628	9.28	11.32	20.60	247	0.13
Wales South	1,078	12.47	10.02	22.49	325	0.26
South West	15,844	19.84	9.94	29.78	1080	0.67
Network Total	17,550	41.58	31.28	72.86	1,652	1.07

Table 5: Theft of Gas

LDZ	Theft of Gas (GWh)
Wales North	1.34
Wales South	6.02
South West	6.13
Network Total	13.49

Table 6: Own Use Gas

LDZ	Own Use Gas (GWh)
Wales North	0.76
Wales South	3.40
South West	3.46
Network Total	7.62