

Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report

1st April 2023 – 31st March 2024 as required under Licence Special Condition 4.4

Version 0.1

July 2024



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1. Executive Summary

This is a report, as required under Licence Special Condition 4.4 setting out the actual leakage volume and actual shrinkage volume 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 (GWh)	Actual Total Shrinkage (GWh)
Wales North	38.80	40.55
Wales South	77.47	83.26
South West	165.95	173.81
Network Total	282.22	297.61

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	440	30.15	-	257,048	15.01
Wales South	1241	29.61	-	833,490	45.46
South West	3234	28.59	-	1,478,472	117.10
Network Total	4,915	29.05¹	-	2,569,010	177.57

Table 3 Medium Pressure Leakage

Medium Pressure		
	Metallic Mains Length (km)	Leakage (GWh)
Wales North	65	2.71
Wales South	249	9.13
South West	724	18.45
Network Total	1,037	30.29

¹ Weighted average from Shrinkage and Leakage Model
July 2024

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	646	9.50	11.45	20.94	211	0.13
Wales South	1,113	12.61	9.97	22.58	350	0.30
South West	15,974	19.94	9.92	29.86	820	0.55
Network Total	17,733	42.05	31.34	73.38	1,381	0.98

Table 5 Theft of Gas

LDZ	Theft of Gas (GWh)
Wales North	1.12
Wales South	3.70
South West	5.02
Network Total	9.84

Table 6 Own Use Gas

LDZ	Own Use Gas (GWh)
Wales North	0.63
Wales South	2.09
South West	2.84
Network Total	5.56