

Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report

1st April 2021 – 31st March 2022 as required under Licence
Special Condition 4.4

July 2022



REPORTS



WALES & WEST
UTILITIES

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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	40.14	42.20
Wales South	82.70	89.28
South West	179.59	188.86
Network Total	302.42	320.33

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	516.63	29.42	-	257,156	16.04
Wales South	1,427.29	30.18	-	835,949	50.66
South West	3,790.62	28.82	-	1,478,884	130.58
Network Total	5,735	29.29¹	-	2,571,990	197.28

¹ Weighted average from leakage model
July 2022

Table 3: Medium Pressure Leakage

Medium Pressure		
	Metallic Mains Length (km)	Leakage (GWh)
Wales North	78.12	3.23
Wales South	250.87	9.17
South West	746.40	18.54
Network Total	1,075.39	30.94

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	639	9.41	11.36	20.77	196	0.09
Wales South	1,097	12.59	10.01	22.60	363	0.27
South West	15,918	19.80	9.92	29.72	1069	0.74
Network Total	17,654	41.80	31.30	73.10	1,628	1.10

Table 5: Theft of Gas

LDZ	Theft of Gas (GWh)
Wales North	1.32
Wales South	4.20
South West	5.92
Network Total	11.44

Table 6: Own Use Gas

LDZ	Own Use Gas (GWh)
Wales North	0.74
Wales South	2.38
South West	3.35
Network Total	6.47