

# Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report

1<sup>st</sup> April 2022 – 31<sup>st</sup> March 2023 as required under Licence Special Condition 4.4

Version 0.1

July 2023



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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	39.13	40.93
Wales South	80.82	86.63
South West	172.01	180.14
<b>Network Total</b>	<b>291.96</b>	<b>307.71</b>

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	484.11	33.60	-	259,182	15.69
Wales South	1,338.45	32.37	-	835,109	48.74
South West	3,514.12	30.09	-	1,479,235	123.00
<b>Network Total</b>	<b>5,337.68</b>	<b>31.16<sup>1</sup></b>	-	<b>2,573,527</b>	<b>187.43</b>

Table 3 Medium Pressure Leakage

Medium Pressure		
	Metallic Mains Length (km)	Leakage (GWh)
Wales North	65.14	2.68
Wales South	252.36	9.25
South West	747.61	18.64
<b>Network Total</b>	<b>1,065.12</b>	<b>30.57</b>

<sup>1</sup> Weighted average from leakage model  
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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	644	9.3571	11.28	20.64	225	0.12
Wales South	1,112	12.6112	9.97	22.58	358	0.24
South West	15,970	19.8199	9.86	29.68	1037	0.70
<b>Network Total</b>	<b>17,726</b>	<b>41.79</b>	<b>31.11</b>	<b>72.90</b>	<b>1,620</b>	<b>1.06</b>

Table 5 Theft of Gas

LDZ	Theft of Gas (GWh)
Wales North	1.15
Wales South	3.71
South West	5.20
<b>Network Total</b>	<b>10.06</b>

Table 6 Own Use Gas

LDZ	Own Use Gas (GWh)
Wales North	0.65
Wales South	2.10
South West	2.94
<b>Network Total</b>	<b>5.68</b>