

# Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report

1st April 2020 – 31st March 2021 as required under Licence  
Special Condition 1F.14

July 2021



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<sub>t,i</sub>) and actual shrinkage volume (ASV<sub>t</sub>) 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 <sub>t,i</sub> (GWh)	Actual Total Shrinkage, ASV <sub>t</sub> (GWh)
Wales North	41.03	43.11
Wales South	85.80	93.02
South West	185.14	194.70
<b>Network Total</b>	<b>311.97</b>	<b>330.83</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	546	29.90	-	254,883	16.85
Wales South	1,511	30.73	-	830,632	53.68
South West	3,996	29.10	-	1,466,206	136.07
<b>Network Total</b>	<b>6,053</b>	<b>29.68<sup>1</sup></b>	-	<b>2,551,721</b>	<b>206.60</b>

<sup>1</sup> Weighted average from leakage model  
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Table 3: Medium Pressure Leakage

Medium Pressure		
	Metallic Mains Length (km)	Leakage (GWh)
Wales North	85.42	3.51
Wales South	260.39	9.44
South West	754.95	18.67
<b>Network Total</b>	<b>1,100.74</b>	<b>31.61</b>

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	633	9.26	11.28	20.55	223	0.13
Wales South	1,087	12.45	9.98	22.43	287	0.25
South West	15,907	19.84	9.91	29.74	1,053	0.65
<b>Network Total</b>	<b>17,627</b>	<b>41.55</b>	<b>31.17</b>	<b>72.72</b>	<b>1,563</b>	<b>1.03</b>

Table 5: Theft of Gas

LDZ	Theft of Gas (GWh)
Wales North	1.33
Wales South	4.62
South West	6.11
<b>Network Total</b>	<b>12.06</b>

Table 6: Own Use Gas

LDZ	Own Use Gas (GWh)
Wales North	0.75
Wales South	2.61
South West	3.45
<b>Network Total</b>	<b>6.81</b>