

# Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report

1st April 2016 – 31st March 2017 as required under Licence  
Special Condition 1F.14

July 2017



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	45.11	47.05
Wales South	102.16	111.62
South West	210.67	219.82
<b>Network Total</b>	<b>357.93</b>	<b>378.49</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	688	32.49	-	247,448	20.96
Wales South	1,979	33.54	-	816,040	69.61
South West	4,869	29.65	-	1,415,593	161.38
<b>Network Total</b>	<b>7,536</b>	<b>31.18</b>	-	<b>2,479,081</b>	<b>251.95</b>

Table 3: Medium Pressure Leakage

Medium Pressure		
	Metallic Mains Length (km)	Leakage (GWh)
Wales North	84.33	3.47
Wales South	274.26	9.85
South West	776.91	18.93
<b>Network Total</b>	<b>1,135.49</b>	<b>32.24</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	627	9.27	11.30	20.57	225	0.11
Wales South	1,076	12.49	10.04	22.53	233	0.17
South West	15,837	19.85	9.95	29.80	903	0.56
<b>Network Total</b>	<b>17,540</b>	<b>41.61</b>	<b>31.29</b>	<b>72.90</b>	<b>1,361</b>	<b>0.84</b>

Table 5: Theft of Gas

LDZ	Theft of Gas (GWh)
Wales North	1.24
Wales South	6.04
South West	5.85
<b>Network Total</b>	<b>13.13</b>

Table 6: Own Use Gas

LDZ	Own Use Gas (GWh)
Wales North	0.70
Wales South	3.41
South West	3.30
<b>Network Total</b>	<b>7.42</b>