



**Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report**  
**FOR FORMULA YEAR 2015/16**  
**1<sup>st</sup> April 2015 – 31<sup>st</sup> March 2016 as required under Licence**  
**Special Condition 1F.14**

## Wales & West Utilities Ltd LDZ Shrinkage and Leakage Report for the 2015/16 formula year

### 1 Executive Summary

This is a report, as required under Licence 1F.14 setting out the actual leakage volume ( $LV_{t,i}$ ) and actual shrinkage volume ( $ASV_t$ ) 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 version 1.4 as Approved by Ofgem on 16<sup>th</sup> 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	46.2	48.1
WALES SOUTH	103.8	111.2
SOUTH WEST	213.0	221.7
<b>Network Total</b>	<b>363.0</b>	<b>381.1</b>

**Table 2: Low Pressure Leakage:**

LDZ	Low Pressure				
	Metallic Mains Length (km)	ASP (mbar)	MEG Saturation	No. Customers	Leakage (GWh)
WALES NORTH	736	31.91	-	248,996	22.0
WALES SOUTH	2,136	31.87	-	815,352	71.3
SOUTH WEST	5,036	30.04	-	1,407,493	163.3
<b>Network Total</b>	<b>7,908</b>	<b>30.80</b>	<b>-</b>	<b>2,471,842</b>	<b>256.5</b>

**Table 3: Medium Pressure Leakage:**

Medium Pressure		
LDZ	Metallic Mains Length (m)	Leakage (GWh)
WALES NORTH	84,506	3.5
WALES SOUTH	275,734	9.9
SOUTH WEST	793,026	19.4
<b>Network Total</b>	<b>1,153,265</b>	<b>32.7</b>

**Table 4: Above Ground Installation and Interference:**

	AGI			Interference		
	No. Sites	Leakage (GWh)	Venting (GWh)	AGI Total (GWh)	No. of Incidents	Leakage (GWh)
<b>WALES NORTH</b>	493	9	11	20.6	195	0.1
<b>WALES SOUTH</b>	1,070	12	10	22.5	232	0.2
<b>SOUTH WEST</b>	15,787	20	10	29.9	844	0.5
<b>Network Total</b>	<b>17,350</b>	<b>42</b>	<b>31</b>	<b>73.0</b>	<b>1,271</b>	<b>0.8</b>

**Table 5: Theft of Gas:**

LDZ	Theft of Gas (GWh)
<b>WALES NORTH</b>	1.2
<b>WALES SOUTH</b>	4.8
<b>SOUTH WEST</b>	5.6
<b>Network Total</b>	<b>11.6</b>

**Table 6: Own Use Gas:**

LDZ	Own Use Gas (GWh)
<b>WALES NORTH</b>	0.7
<b>WALES SOUTH</b>	2.7
<b>SOUTH WEST</b>	3.2
<b>Network Total</b>	<b>6.5</b>