

LDZ Energy Loss Final Proposals

Formula year 2021-22

February 2021

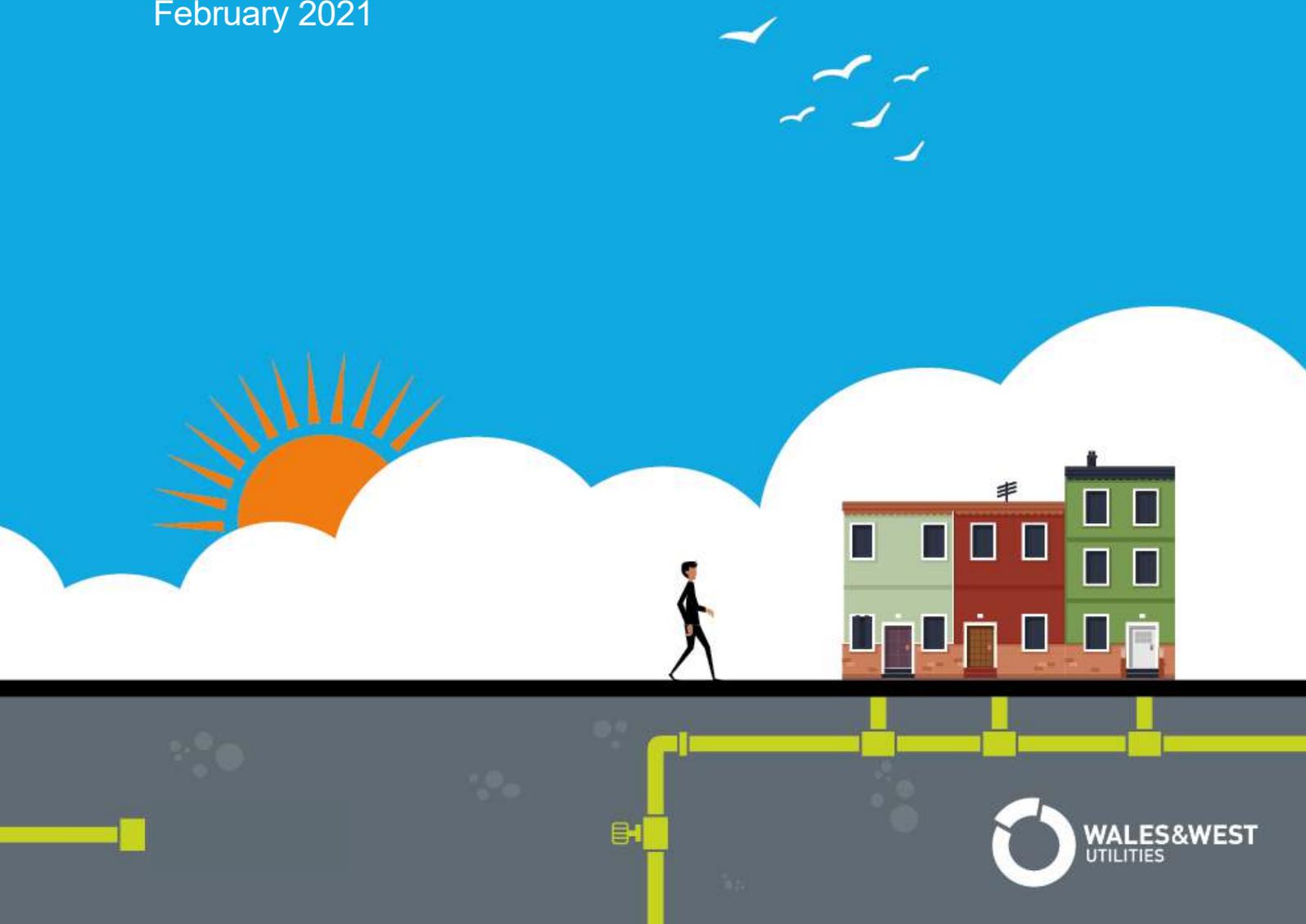


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1 LDZ Energy Loss Proposals for Formula Year 2021-22

Purpose of Proposal

This paper presents the Energy Loss through transportation as proposed by Wales & West Utilities (WWU) from the respective Local Distribution Zones (LDZ) for the Formula year 2021-22. This paper will describe the Energy Losses from the various factors within each LDZ detailing the Energy Losses associated to each component. This proposal will form the basis for WWU's LDZ Shrinkage Gas procurement during the 2021-22 formula year.

Summary of Proposal

The LDZ Energy Loss reflects the losses associated with leakage, theft of gas and gas used in the operation of the system. Details of how these quantities have been determined are provided later in this paper.

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.

Fugitive emissions of gas (leakage and venting) have been estimated using forecast asset population as at 31st March 2021. WWU has considered Own Use Gas (OUG) and Theft of Gas (ToG) and propose using the same factor as previous years. The Energy Loss for 2021-22 is estimated at 0.55% of total demand through the WWU system.



Figure 1: Breakdown of Energy Loss by LDZ

2 Component Analysis

WWU's Energy Loss proposals are forecasted by calculating the forecasted Shrinkage for the respective Formula Year. The below diagram provides a high level breakdown of Shrinkage gas with values forecasted for 2021-22.



Figure 2: Breakdown of Shrinkage

Leakage

LP Mains Leakage represents the largest component of the total LDZ Energy loss at 53.5%. A component breakdown of Leakage with the percentage impact each one has is illustrated below.

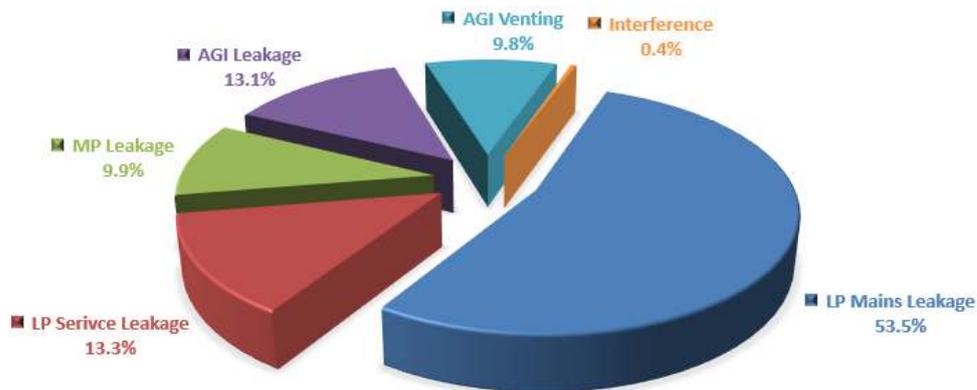


Figure 3: Components of Leakage 2021-22

For the purpose of this analysis, leakage is split into three categories which are:

- Distribution Mains which is a feature of normal system operation (LP Mains Leakage, LP Service Leakage and MP Leakage)
- Above Ground Installations (AGI's) emissions which includes the routine venting of control equipment.
- Interference which include gas lost as a result of interference damage. These losses are not continuous; they are caused by specific events.

3 LDZ Energy Loss Summary

The proposed LDZ Energy Loss for the Formula Year 2021-22 is presented in the following table.

LDZ	Leakage (GWh)	Own Use Gas (GWh)	Theft of Gas (GWh)	Proposed Shrinkage Quantity 2021-22 (GWh)
WN	41.95	0.72	1.28	43.95
WS	88.82	2.63	4.65	96.09
SW	184.28	3.63	6.41	194.32
Total	315.05	6.98	12.34	334.37

4 Extent to which the Proposal would better facilitate the relevant objectives

This proposal provides a robust estimate of LDZ Energy Loss for the Formula Year 2021-22. The gas usage and loss in transportation within the LDZs will be reflective of actual conditions. This in turn facilitates the achievement of efficient and economic operation of the system through effective targeting of costs.

It will also lead to accurate targeting of costs to Users through the Reconciliation by Difference process and this is consistent with securing effective competition.

5 The implications for Wales & West Utilities of implementing the Proposal including:

a) Implications for operation of the System:

We are not aware of any such implications that would result from implementing this proposal.

b) Development and capital cost and operating cost implications:

The proposed LDZ Energy Loss (which has been prepared without Pressure and Temperature correction) leads to a fair allocation of operating costs between LDZ systems.

c) Extent to which it is appropriate for Wales & West Utilities to recover the costs, and proposal for the most appropriate way for Wales & West Utilities to recover the costs:

It is appropriate for each LDZ to incur a share of the overall Shrinkage Energy cost dependent upon the actual shrinkage in that LDZ.

d) Analysis of the consequences (if any) this proposal would have on price regulation

Shrinkage gas is a very small component of Unidentified Gas (UIG) and therefore would have an impact on the allocation of UIG.

6 The implications of implementing the Proposal for Users

This proposal improves the equitability and accuracy of cost targeting across all Users.

7 Analysis of any advantages or disadvantages on implementation of the Proposal

Advantages: Representation of the actual system usage and losses relevant to current network composition.

Disadvantages: Purchasing shrinkage gas on a flat daily profile throughout the year may cause some very minor inconsistencies on UIG. During summer where gas demand is lower, Shrinkage gas would make up a greater proportion of UIG whilst during the winter, the proportion would be smaller.

8 Summary of the representations (to the extent that the import of those representations are not reflected elsewhere in the Proposal)

Users have had the opportunity to respond to these proposals. No representations were received with respect to Wales & West Utilities LDZ Shrinkage Quantities Initial Proposal for formula year 2021-22.

9 Programme of works required as a consequence of implementing the Proposal

The only required modification is to the LDZ Energy Loss values entered into GEMINI.

10 Proposed implementation timetable (including timetable for any necessary information system changes)

Users have until 15th March 2021 to request that Ofgem issues a Standard Special Condition A11 (18) disapproval of this proposal. This provision is in the UNC Section N 3.1.8.

If no disapproval notice is issued beforehand, it will be our intention to implement revised LDZ Energy Loss from 05:00 hrs on 1st April 2021.

11 Recommendation concerning the implementation of the Proposal

We recommend the proposed LDZ Energy Loss be implemented with effect from 05:00 hrs on 1st April 2021.

12 Wales & West Utilities Proposal

This report contains our proposal for the LDZ Energy Loss for the Formula Year 2021-22.