High Level Solution Options Change Pack

# Communication Detail

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| Comm Reference: | 3230.1 – LO - PO |
| Comm Title: | **XRN5585** – FWACV (Flow Weighted Average Calorific Value) - Phase 2 Service Improvements |
| Comm Date: | 16/10/2023 |

**Change Representation**

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| Action Required: | For Representation |
| Close Out Date: | 30/10/2023 |

# Change Detail

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| Xoserve Reference Number: | [XRN5585](https://www.xoserve.com/change/customer-change-register/xrn-5585-flow-weighted-average-calorific-value-phase-2-service-improvements/) |
| \*ChMC Constituency Impacted: | Distribution Network Operators  *Note: nominally also National Gas Transmission and Grain LNG* |
| Change Owner: | [uklink@xoserve.com](mailto:uklink@xoserve.com) |
| Background and Context: | During the FWACV Phase 1 Market Trials, Post Implementation Support and from operational experience, the DNOs, in conjunction with the CDSP have identified service improvements and further requirements.  Xoserve held a meeting with the DNOs on 27th June ’23 in relation to the change. In order to understand the potential solution efficiencies, timescales, and costs, it was agreed Xoserve would provide several solution options.  Adopting this approach will afford the DNOs with the opportunity to consider which option will provide the most efficient and cost-effective solution.  In summary, XRN5585 includes the following FWACV Phase 2 changes:   * **Service Enhancements** (new requirements); * Reduce the frequency/volume of CDSP email notifications issued to DNOs * Rationalise process/data flow interactions by amalgamating datasets e.g. combined Loss of Record notifications * Route information to the relevant DNO operational contacts * Assess additional opportunities to improve the efficiency/effectiveness of the FWACV Service * **Automation of Manual Processes** |
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# Solution Options

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| Solution Option Summary: | This HLSO scopes two solution options, a summary of which can be found below;  **Solution Summary**  **Option 1: FWACV Service Enhancements/Automation of Manual Processes**     * **Service Enhancements (new requirements):** * All excel templates sent from Xoserve to DNOs should use standard .xlsx formatting. * New process for submission of separate Calorific Values and gas flows (volume) for inter-LDZ transfer sites using the existing file transfer mechanism. * New process for biomethane sites to be able to use an alternate site for CV capping and use the original site CV for FWACV calculations (including reporting to Ofgem) * Changes to the AO & Y0 files and acknowledgements * Consolidation of existing emails sent to DNOs into a single email that includes:   + CV Capping notification   + Default CV   + Missing CV   + Missing Volume   + Lowest CV * A new D+4 automated notification via email for missing site data * A new process to introduce CV tolerance validations and send rejection notifications to DNOs for invalid CV submissions * LOR requests to be accepted and processed for occurrences where the source data has been updated or replaced * New daily EOD automated report sent via email to DNOs agreed distribution list. The report will include   + Substituted Site Information - (Gas Day, LDZ, Site name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Day, LDZ, Site name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status   + **Automation of Manual Processes:**   + Upload and validate data received from DNOs, National Gas and Grain LNG via email;   + CV, volume & energy values   + Existing and new site configuration updates   + Loss of Record (LOR) data  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | **Solution Option** | **Lower Estimate £** | **Upper**  **Estimate £** | | **1** | 314,000 | 418,000 | | **2** | 308,000 | 374,000 |   **Automation (included within Option 1) of existing FWACV Processes**  The DNOs requested the CDSP to provide a high-level cost estimate for a standalone, ‘automation’ solution of the manual processes as outlined in Option 1. The high-level cost estimate range for automation is between £154,000 and £200,000.  ‘**Automation’ - Payback Period**  In order for the DNOs to assess the costs and benefits arising between the two solution options, we have also included a high-level assessment of delivering automation requirements and, the consequential reduction of the annual DSC Service and Operate by £108,000.  Delivery of the automation as part of Option 1 will achieve a payback period against top end of delivery costs:  Option 1 – in 4.4 months (based on the delta between Option 1 and 2)  Option 2 – Not applicable |   **Option 2: FWACV Service Enhancements Only**  This option contains all the Service Enhancements (new requirements) that are listed in Option 1 above but excludes Automation of Manual Processes.  **Solution Option(s) Cost and Implementation**  **Summary of change impacts and cost assessment**  Our analysis activities have identified a total of 14 changes that need to be made, in 7 out of 10 programmes across the full end to end solution. This includes but is not limited to the FWACV calculation, attribution mapping and processing, file format logic and reporting programmes.   As these programmes are bespoke to the FWACV solution, testing activities are not currently automated and will need to cover approx. 150 test cases across the solution. Given the criticality of the service to industry and importance of the accuracy of the values calculated, we would be looking to take a prudent approach to ensure changes can be delivered with no impacts to service levels.  Full detail of the solution options and customer requirements can be found within the attached document; |
| Proposed Implementation Date: | TBC |
| Xoserve preferred option:  (including rationale) | Option 1 - subject to there being a viable cost benefit’; approved by the DNOs at ChMC |
| DSG preferred solution option:  (including rationale) | Impacted parties are encouraged to attend the Delivery Sub-Group (DSG) on 23rd October 2023, where this Solution Change Pack will be presented for discussion.  For more information on October DSG please visit Xoserve.com [here](https://www.xoserve.com/calendar/dsc-delivery-sub-group-23-october-2023/) where the session documentation will be added.  If you would like to be added to the DSG invite list, please contact us at [uklink@xoserve.com](mailto:uklink@xoserve.com) |

# Service Lines and Funding

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| Service Line(s) Impacted - New or existing | Part A Direct Service – Code Services / Service Area 17 - DN Funded Service Activities *(existing line)* |
| Level of Impact | Medium – identified as being deliverable via a Major / Adhoc Release |
| Impacts on UK Link Manual/ Data Permissions Matrix | TBC during detailed design phase |

Industry Response Solution Options Review

«RangeStart:EDS»

***Please consider any commercial impacts to your organisation that Xoserve need to be aware of when formulating your response***

**Organisation’s preferred solution option**

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| User Contact Details: | Organisation: | «e1\_organisation» |
| Name: | «e1\_name» |
| Email: | «e1\_email» |
| Telephone: | «e1\_telephone» |
| Organisation’s preferred solution option, including rationale taking into account costs, risks, resource etc. | «e1\_preferredSolutionOption» | |
| Customer decision on preferred solution option: | «e1\_dsgSolutionOption» | |
| Publication of consultation response: | N/A | |

**Xoserve’ s Response**

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| Xoserve Response to Organisations Comments: | «e2\_xoserveResponse» |

«RangeEnd:EDS»

Change Management Committee Outcome

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| Change Status: | Approve | Reject | | | Defer |
| Approved Solution Option |  | | | | |
| Funding Split agreed |  | | | | |
| Industry Consultation: | 10 Working Days | | 15 Working Days | | |
| 20 Working Days | | Other [Specify Here] | | |
| Date Issued: |  | | | | |
| Comms Ref(s): |  | | | | |
| Number of Responses: |  | | | | |
| Solution Voting: | Shipper | | | Please select. | |
| National Grid Transmission | | | Please select. | |
| Distribution Network Operator | | | Please select. | |
| IGT | | | Please select. | |
| Meeting Date: |  | | | | |
| Proposed Release Date: | Release: Major/Adhoc | | | | |

**Version Control**

**Document**

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| --- | --- | --- | --- | --- |
| Version | Status | Date | Author(s) | Remarks |
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