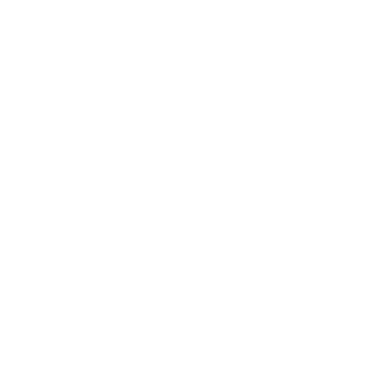
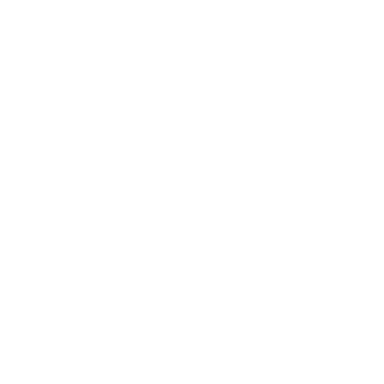
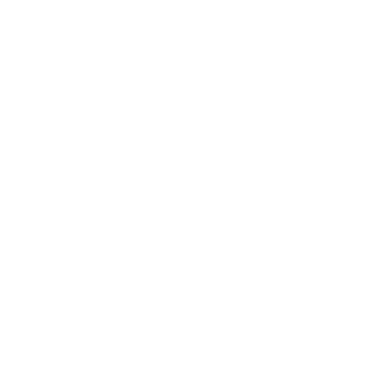
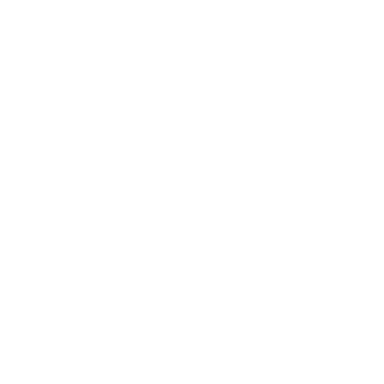
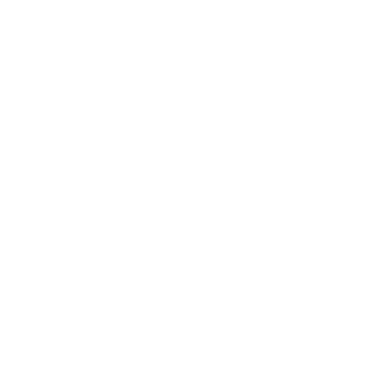
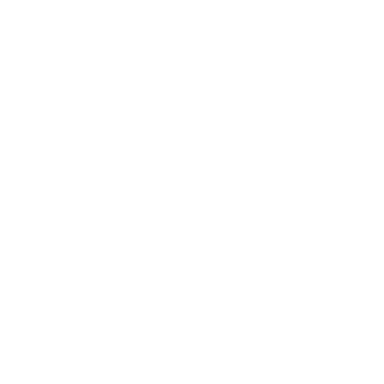


**XRN5585**

**Flow Weighted Average Calorific Values – Phase 2 Service Improvements**



**High Level Solution Option**

**Impact Assessment Summary**

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| **Introduction** | |
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| This **High Level Solution Option (HLSO) Impact Assessment Summary** is designed to provide DSC customers with the appropriate details to aid in understanding proposed Solution Options being put forward to the industry to satisfy customer requirements for the specified DSC Change Proposal (XRN5585).  This document aims to provide transparency in the analysis carried out to date by the CDSP and assist customers in making informed decisions around impacts to the industry, the CDSP and potential changes need to customer’s own systems & processes as a result of the proposed Solution(s).  Please note that the details and cost estimates outlined within this document has a validity period of 6 months following the issue of the Solution Option Change Pack.  If you have any questions related to this HLSO, please contact the [uklink@xoserve.com](mailto:uklink@xoserve.com) box account in the first instance. | |
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| **Target Audience** | | |
|  | | |
| This High Level Solution Option (HLSO) Impact Assessment Summary is targeted to specific DSC Customers and industry parties shown below following analysis to date. It is advised that this document be reviewed in its’ entirety and parties provide the CDSP representations/feedback via the Change Pack consultation process.  However, it is also encouraged for ALL industry parties to review and where appropriate provide representations/feedback on potential impacts for the solution option(s) being proposed within this HLSO.  Impacted parties are: | | |
|  | | |
| * Distribution Network Operators (DNOs) * National Gas (NG) * Grain LNG | | |
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| **Change Overview – XRN5585** | | |
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| This change seeks to enhance the first phase of the Flow Weighted Average Calorific Values (FWACV) Project.  High-level changes are as follows:   * Automation of existing FWACV processes to upload and validate data received from DNOs, National Gas and Grain LNG via email into CDSP systems.   + CV, volume & energy values   + Existing and new site configuration updates.   + LOR data. * New process for submission of separate Calorific Values and gas flow values (Volume) for inter-LDZ transfer sites (EM-WM and NT-SO) using the existing file transfer mechanism. * New process for biomethane sites to be able to use an alternate site for LDZ 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 and National Gas (where applicable) to a single email that includes:   + LDZ CV Capping notification   + Default CV   + Missing CV   + Missing Volume   + Lowest CV * A new D+4 notification sent to DNOs and National Gas via email to notify 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. As part of this requirement, any historic LORs and data fixes will be agreed during design. * New daily EOD automated report sent via email to DNOs agreed distribution list.   + Tab for Substituted Site Information – (Gas Flow Day, LDZ, Site Name, Substituted Value – CV, Volume, Energy)   + Tab for Capped Site Information – (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status Tab   + Y0 File Acceptance/Rejection Status Tab | | |
| **Useful Information** | | |
|  | | |
| The below has been provided to aid customers understanding of the Change Proposal and/or any information that may be useful in reviewing this HLSO Impact Assessment Summary. | | |
| * Link to XRN5585 Change Proposal :   <https://www.xoserve.com/change/customer-change-register/xrn-5585-flow-weighted-average-calorific-value-phase-2-service-improvements/> | | |
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|  | | |
| **Customer Requirements Mapping** | | |
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| The attached document shows the Customer Requirements that have been considered in the production of this HLSO Impact Assessment Summary.  This document also illustrates which requirements have been met for each Solution Option being presented and provides customers with an overall % of Customer Requirements coverage for each. | | |
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|  | The detailed customer requirements considered are given below. | |
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| **Proposed Solution Options** | | |
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| The proposed High-Level Solution Option(s) that have been impact assessed to satisfy customer requirements are as follows: | | |
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| The DNOs’ preferred FWACV Phase 2 solution option;   * **Option 1:** Process Enhancements, File Format Changes and Automation Requirements   The DNOs’ Discounted FWACV Phase 2 solution options;     * **Option 2:** Process Enhancements and File Format Changes * **Option 3:** Process Enhancements and Automation Requirements * **Option 4:** Process Enhancements Only | | |
| Details of the impact assessment carried out for each proposed solution option has been outlined in subsequent sections of this document. | | |
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| **High Level Solution Comparison** | | |
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| Below provides a high-level comparison between the proposed Solution Option(s) to aid customers in appropriate decision making and representation responses. | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Solution** | **CDSP**  **Impact** | **Customer Impact** | **Release Type** | **Upper**  **Estimate £** | **Customer Requirement** | | **1** | High | Medium | Major/Adhoc | 385,000 | 100% | | | |
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**Automation of existing FWACV Processes (included within Option 1).**

The DNOs have also 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 four

solution options, we have also included a high-level assessment of delivering

automation requirements and, the consequential reduction of the annual DSC

Service/Operate by £108,000.

Delivery of the automation as part of Option 1 will achieve a payback period against top end of delivery costs in 3.6 months (based on the delta between Option 1 and 2)

**Option 1 – Process Enhancements, File Format Changes and Automation Requirements**

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| **Solution Overview** | |
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| **Solution Option 1** will deliver the ‘Must Have’, ‘Should Have’ and ‘Could Have’ customer requirements; | |
|  | |
| * Automation of existing FWACV processes to upload and validate data received from DNOs, National Gas and Grain LNG via email.   + CV, volume & energy values   + Existing and new site configuration updates.   + LOR data. * New process for submission of separate Calorific Values and gas flow values (Volume) for inter LDZ transfer sites ( EM-WM and NT-SO) using the existing file transfer mechanism. * New process for biomethane sites to be able to use an alternate site for LDZ 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 and National Gas (where applicable) to a single email that includes:   + LDZ CV Capping notification   + Default CV   + Missing CV   + Missing Volume   + Lowest CV * A new D+4 notification sent to DNOs and National Gas via email to notify 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. As part of this requirement, any historic LORs and data fixes will be agreed during design * New daily EOD automated report sent via email to DNOs agreed distribution list. The report will include   + Substituted Site Information - (Gas Flow Day, LDZ, Site Name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status | |
|  | |
| **Constituency Impact Overview** | |
|  | |
| Below provides a high-level view of impacts per DSC Customers and industry parties, more details and reasoning for such are outlined in the later sections.  Please note that the below is the view of the CDSP following analysis to date on the solution option being proposed. It is encouraged for representatives to carry out their own assessment and where possible provide feedback if they feel the below is not a true representation of the impacts that would be felt if the proposed solution option were to be progressed with and implemented. | |
|  | |
| |  |  |  | | --- | --- | --- | | Gauge with solid fill  High | N/A |  | |  |  | | Speedometer Middle with solid fill  Medium | Distribution Network Operator (DNO)  National Gas | |  |  | | Speedometer Low with solid fill  Low | Grain LNG | | |
| **Solution Impact Summary** | |
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| The below provides a high-level summary of the proposed solution option, additional details for each are provided in subsequent sections. | |
|  | |
| CDSP Impact: | **High** |
| Customer Impact: | **Medium** |
| Release Type: | **Major/Adhoc** |
| Cost Estimate: | **£308,000 to £385,000** |
| Customer Requirement Coverage: | **100%** |
|  | |
|  | |
| **Estimated Cost Breakdown** | |
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| Estimated costs provided are indicative and based on high level analysis to date and may be subject to change if the solution moves further through change development. | |
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| |  |  |  | | --- | --- | --- | | **Development / Implementation Costs** | | | | **Element** | **Lower** | **Upper** | | Design | £56,000 | £70,000 | | Delivery | £224,000 | £280,000 | | Customer Contingency | £28,000 | £35,000 | | **Total** | **£308,000** | **£385,000** | | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ongoing Costs** | | | | **Element** | **Lower** | **Upper** | | Service & Operate | -£108,000 | -£108,000 | | Contracting & Assurance | 0 | 0 | | Other | 0 | 0 | | **Total** | **-£108,000** | **-£108,000** | | |
| A high-level assessment of delivering Option 1 automation requirements will lead to a reduction in the annual FWACV Service & Operate Costs. This will be confirmed during Detailed Design and, in the presentation of the BER. | |
| **CDSP Technical Overview** | | |
|  | | |
| The CDSP systems impacted by the proposed solution are outlined below with details on how they are affected and what is involved.  **UK LINK-SAP ISU/SAP PO**   * **CR1.1**-Automation of existing system upload programs to upload and validate data received from DNOs, National Gas and Grain LNG via email.   + CV, volume & energy values   + Existing and new site configuration updates.   + LOR data.   The email attachments will read, validated with the existing screen validations, and loaded automatically into the systems and upon processing the email a response via email will be sent to the DNO, National Gas and the operational team with a successful status or a relevant rejection reason.   * **CR1.3.1**-Changes to the existing LDZ inter transfer sites to receive and store separate CV and volume volumes in system for EM-WM and NT-SO site configuration. Amendments to FWACV calculation and Attribution process for these sites as part of the new set up. Changes to the ISU system so that the OFGEM report reflect the relevant changes for the Inter LDZ site type. * **CR1.3.3**- Changes to the existing site configuration to differentiate the CV that is eligible for LDZ CV Capping and CV that will participate in AS-IS FWACV Attribution, Substitution and Calculation process. A new parameter will be setup to identify sites that needs to participate in LDZ CV Capping but not in FWACV process. The exact configuration and the list of sites to be agreed with customers during Detailed Design Phase. * **CR1.4.1 and CR1.4.2** – Change to existing AO interface SAP ISU program to include full rejection code and requested status details. * **CR1.4.3 and CR1.4.4 –** Change to the existing Y0 outbound SAP ISU process to create agreed status and acknowledgments to be sent in a new response file to the customers. * **CR1.5.1,CR1.5.2 and CR1.5.3-** Consolidation of below emails   + New Email (Consolidated) template with existing notification attachments (that includes Default CV, Lowest CV, Missing CV, Missing Volume and LDZ CV Capping) will be created and sent to the agreed list of email recipients. The email attachments will be in the .XLSX format to ensure it is in-line with the other requirements as part of FWACV2.   + Consolidated LDZ CV Capping email triggered for LOR scenario outside D+5 close, a single email for the entire LOR period send to relevant DNOs. * **CR1.5.4 –**  A new end of day automated report will be created and sent via email to DNOs agreed distribution list. The report will include   + Substituted Site Information - (Gas Flow Day, LDZ, Site Name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status * **CR1.5.5**- A new notification for sharing the consolidated email for missing CV and missing Volume on D+4 using the existing logic used for notifications sent on D+1 and D+3. The detail and structure of the notification will be agreed with customers during detailed design phase. * **CR1.6**- Changes to the existing FWACV file processing logic to introduce the CV validation check for CV received via existing AI, Y0 files and via email. Existing screens for missing CV will be updated with the CV validation checks and the automation of missing CV logic will be updated with new validations. Appropriate rejection and reason will be created and sent to customer if the CV fails the validation. * **CR1**.**7**- Changes to the existing site configuration to capture historical information for any site changes. LOR upload program to be modified to use the historical site information where relevant and validations performed correctly. FWACV calculation to be updated to ensure the correct information is used for -recalculation of FWACV for the declared LOR period. The exact validations will be agreed with customers as part of detailed design phase and any changes to the existing process will be updated. * **CR1**.**8**- Changes to the existing configuration tables (Site, Attribution) to retain the changes and maintain history.   **File Format Updates**   * **CR1.4.1**- Changes to the existing AO interface file segment to include the full rejection code description. Please note there are no changes to the existing validation logic or existing rejections for this change. * **CR1.4.2**- Changes to the existing AO interface file segment to update the ‘STATUS’ to further include filetype and timestamp details instead of value ‘A’ * **CR1.4.3 and CR1.4.4 –** New response file for Y0 (Inbound file containing CV data) will be created to send the successful or failure acknowledgment to DNOs and National Gas. This file will be sent out for both original and amended CV files. * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the AO/new Y0 response file/ New EOD report.. | | |
| **Operational Process**   * **CR1.3.2**- A operational process in place for customers to be able request for any inter LDZ site transfer ( i.e. EM-WM,NT-SO) split via service request. The process followed in FWACV Phase 2 will be documented for any future requests from customer. * **CR1.3.3**- A operational process in place for customers to be able to request for any onshore/biomethane sites to be able to have sites participate in LDZ Capping and FWACV processes as per request   **Other systems reviewed with no impact or changes identified within scope**   * Gemini * Market Flow | | |
| **Perceived Impacts to Industry Parties** | | | |
|  | | | |
| Below provides customers with a steer on potential impacts to industry parties that are not directly linked to DSC. Please note that this is perceived impacts and are not fully known or is an extensive list.  We would encourage all industry participants to review the contents within this document and make their own determinations on potential impacts as the CDSP would not have full visibility or understanding of such. | | | |
|  | | | |
| **Shipper Impacts**   * No Impacts identified as part of this change to the Shipper community.   **DNOs and National Gas Impacts**   * **CR1.4.1**- Changes to the existing AO interface file segment to include the full rejection code description. Please note there are no changes to the existing validation logic or existing rejections for this change. * **CR1.4.2**- Changes to the existing AO interface file segment to update the ‘STATUS’ to further include filetype and timestamp details instead of value ‘A’ * **CR1.4.3 and CR1.4.4 –** New response file for Y0 (Inbound file containing CV data) will be created to send the successful or failure acknowledgment to DNOs and National Gas. This file will be sent out for both original and amended CV files. * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the AO/new Y0 response file/ New EOD report.. | | | |
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| **Assumptions** | | | |
|  | | | |
| Below are any assumptions that have been made in the course of carrying out this High-Level Solution Option (HLSO) Impact Assessment. | | | |
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| |  |  |  |  | | --- | --- | --- | --- | | **Ref** | **Assumption** | | **Notes** | | A1 | No Changes to any data processing job schedules or SLAs | | SLAs | | A2 | Relevant changes to the AO and Y0 files will be made at the customers end inline with CDSP changes. This is out of scope of CDSP HLSO efforts and costs. | | File formats | | A3 | No Changes to existing AI and Y0 inbound file processing or file formats | | File formats | | A4 | Existing Excel templates do not have any password protection and this will be the same for FWACV Phase2. | | Emails | | A5 | Market Trial testing is out of scope for this HLSO | | Testing | | A6 | There is no changes in the volumetrics of data hence performance testing is not included in the HLSO efforts and costing. | | Testing | | A7 | Existing UKLink Development and testing environments to be used for this change | Testing | | | A8 | No major migration of data requirements | | Data | | A9 | Any changes to the Attribution Mapping Matrix and site configurations will be provided to CDSP as part of Detailed Design Phase | | Data | | A10 | No Changes to the existing Energy/Shrinkage report template | | Reporting | | A11 | No Changes to the core FWACV calculation process other than changes to the LDZ CV Capping process | Functional Process | | | A12 | No Changes to the new site creation, existing site update process. | Functional Process | | | A13 | Estimate assumes that an existing UK Link DEV and QA environment track will be used to deliver this change. | Environments | | | A14 | Data in the Clear Testing will not be required. | Security | | | | | |
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| **Dependencies/Dependents** |
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| Below are any dependencies for and against this Solution Option that have been made in the course of carrying out this High-Level Solution Option (HLSO) Impact Assessment. |
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| |  |  |  | | --- | --- | --- | | **Ref** | **Dependency** | **Notes** | | D1 | FWACV Phase 2 has a dependency on customers(DNOs, NG) to provide/agree below details during the Detailed Design Phase:   * CV range for validations * Email and email attachment templates * Configuration details * Attribution Mapping Matrix updates * Assumptions/Risks * Notification/Batch Timings if applicable. * Finalised email distribution lists |  | | D2 | Dependency on the inflight projects/releases to share the existing UK Link environment |  | | D3 | Customers will require a standard/agreed notice period to update the industry flows for this change. |  | |
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| **Risks** |
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| Below are any risks that have been identified in the course of carrying out this High Level Solution Option (HLSO) Impact Assessment. |
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| |  |  |  | | --- | --- | --- | | **Ref** | **Risk** | **Mitigation** | |  |  |  | |
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| **Governance Approach** |
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| The standard DSC change process will be followed. |
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| **Delivery Approach** |
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| Scoping and Delivery of this option will require a Major/Adhoc release. |
| **Additional Information** |
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| There is no additional information for this option. |
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**Appendix 1 - Discounted Solution Options**

**Option 2 – Process Enhancements and File Format Changes**

The following three Solution Options have been reviewed by the DNOs and, have agreed these should be excluded from the Solution Change Pack consultation;

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| **Solution Option Overview** |
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| **Solution Option 2** would deliver the ‘Must Have’ and ‘Could Have’ requirements; |
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| * New process for submission of separate Calorific Values and flow (volume) for inter LDZ transfer sites ( EM-WM and NT-SO) using the existing file transfer mechanism. * New process for biomethane sites to be able to use an alternate site for LDZ 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 and National Gas (where applicable) to a single email that includes:   + LDZ CV Capping notification   + Default CV   + Missing CV   + Missing Volume   + Lowest CV * A new D+4 notification sent to DNOs and National Gas via email to notify 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. As part of this requirement, any historic LORs and data fixes will be agreed during design |
| **Constituency Impact Overview** |
|  |
| Below provides a high-level view of impacts per DSC Customers and industry parties, more details and reasoning for such are outlined in the later sections.  Please note that the below is the view of the CDSP following analysis to date on the solution option being proposed. It is encouraged for representatives to carry out their own assessment and where possible provide feedback if they feel the below is not a true representation of the impacts that would be felt if the proposed solution option were to be progressed with and implemented. |
|  |
| |  |  |  | | --- | --- | --- | | Gauge with solid fill  High | N/A |  | |  |  | | Speedometer Middle with solid fill  Medium | Distribution Network Operator (DNO)  National Gas | |  |  | | Speedometer Low with solid fill  Low | Grain LNG | |
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| **Solution Impact Summary** | |
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| The below provides a high-level summary of the proposed solution option, additional details for each are provided in subsequent sections. | |
|  | |
| CDSP Impact: | **High** |
| Customer Impact: | **Medium** |
| Release Type: | **Major/Adhoc** |
| Cost Estimate: | **£275,000 to £352,000** |
| Customer Requirement Coverage: | **71%** |
|  | |
|  | |
| **Estimated Cost Breakdown** | |
|  | |
| Estimated costs provided are indicative and based on high level analysis to date and may be subject to change if the solution moves further through change development. | |
|  | |
| |  |  |  | | --- | --- | --- | | **Development / Implementation Costs** | | | | **Element** | **Lower** | **Upper** | | Design | £50,000 | £64,000 | | Delivery | £200,000 | £256,000 | | Customer Contingency | £25,000 | £32,000 | | **Total** | **£275,000** | **£352,000** | | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ongoing Costs** | | | | **Element** | **Lower** | **Upper** | | Service & Operate | 0 | 0 | | Contracting & Assurance | 0 | 0 | | Other | 0 | 0 | | **Total** | 0 | 0 | | |
| Additional ongoing costs are not expected for this change; however, this will be confirmed during Detailed Design and in the presentation of the BER. | |
|  | |
| **CDSP Technical Overview** | |
|  | |
| The CDSP systems impacted by the proposed solution are outlined below with details on how they are affected and what is involved.  **UK LINK-SAP ISU/SAP PO**   * **CR1.3.1**-Changes to the existing LDZ inter transfer sites to receive and store separate CV and volume volumes in system for EM-WM and NT-SO site configuration. Amendments to FWACV calculation and the Attribution process for these sites as part of the new set up. Changes to the SAP ISU system so that the OFGEM report reflect the relevant changes for the Inter LDZ site type. * **CR1.3.3**- Changes to the existing site configuration to differentiate the CV that is eligible for LDZ CV Capping and CV that will participate in AS-IS FWACV Attribution, Substitution and Calculation process. A new parameter will be setup to identify sites that needs to participate in LDZ CV Capping but not in FWACV process. The exact configuration and the list of sites to be agreed with customers during detailed design phase. * **CR1.4.1 and CR1.4.2** – Change to existing AO interface SAP ISU program to include full rejection code and requested status details. * **CR1.4.3 and CR1.4.4 –** Change to the existing Y0 outbound SAP ISU process to create agreed status and acknowledgments to be sent in a new response file to the customers. * **CR1.5.1,CR1.5.2 and CR1.5.3-** Consolidation of below emails   + New Email (Consolidated) template with existing notification attachments (that includes Default CV, Lowest CV, Missing CV, Missing Volume and LDZ CV Capping) will be created and sent to the agreed list of email recipients. The email attachments will be in the .XLSX format to ensure it is in line with the other requirements as part of FWACV2.   + Consolidated LDZ CV Capping email triggered for LOR scenario outside D+5 close, a single email for the entire LOR period send to relevant DNOs. * **CR1.5.4 –**  Existing manual report will be updated and sent via email to DNOs agreed distribution list. The report will be updated to include   + Substituted Site Information - (Gas Flow Day, LDZ, Site Name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status * **CR1.5.5**- A new notification for sharing the consolidated email for missing CV and missing Volume on D+4 using the existing logic used for notifications sent on D+1 and D+3. The detail and structure of the notification will be agreed with customers during detailed design phase. * **CR1.6**- Changes to the existing FWACV file processing logic to introduce the CV validation check for CV received via existing AI, Y0 files and via email. Existing screens for missing CV will be updated with the CV validation checks. Appropriate rejection and reason will be created and sent to customer if the CV fails the validation. * **CR1**.**7**- Changes to the existing site configuration to capture historical information for any site changes. LOR upload program to be modified to use the historical site information where relevant and validations performed correctly. FWACV calculation to be updated to ensure the correct information is used for -recalculation of FWACV for the declared LOR period. The exact validations will be agreed with customers as part of detailed design phase and any changes to the existing process will be updated. * **CR1**.**8**- Changes to the existing configuration tables (Site, Attribution) to retain the changes and maintain history.   **File Format Updates**   * **CR1.4.1**- Changes to the existing AO interface file segment to include the full rejection code description. Please note there are no changes to the existing validation logic or existing rejections for this change. * **CR1.4.2**- Changes to the existing AO interface file segment to update the ‘STATUS’ to further include filetype and timestamp details instead of value ‘A’ * **CR1.4.3 and CR1.4.4 –** New response file for Y0 (Inbound file containing CV data) will be created to send the successful or failure acknowledgment to DNOs and National Gas. This file will be sent out for both original and amended CV files. * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the AO/new Y0 response file. | |
| **Operational Process**   * **CR1.3.2**- A operational process in place for customers to be able request for any inter LDZ site transfer ( i.e. EM-WM,NT-SO) split via service request. The process followed in FWACV Phase 2 will be documented for any future requests from customer. * **CR1.3.3**- A operational process in place for customers to be able to request for any onshore/biomethane sites to be able to have sites participate LDZ CV Capping and FWACV processes as per request   **Other systems reviewed with no impact or changes identified within scope**   * Gemini * Market Flow | |
|  | |
| **Perceived Impacts to Industry Parties** | |
|  | |
| Below provides customers with a steer on potential impacts to industry parties that are not directly linked to DSC. Please note that this is perceived impacts and are not fully known or is an extensive list.  We encourage all industry participants to review the contents within this document and make their own determinations on potential impacts as the CDSP would not have full visibility or understanding of such. | |
|  | |
| **Shipper Impacts**   * No Impacts identified as part of this change to the Shipper community.   **DNOs and National Gas Impacts**   * **CR1.4.1**- Changes to the existing AO interface file segment to include the full rejection code description. Please note there are no changes to the existing validation logic or existing rejections for this change. * **CR1.4.2**- Changes to the existing AO interface file segment to update the ‘STATUS’ to further include filetype and timestamp details instead of value ‘A’ * **CR1.4.3 and CR1.4.4 –** New response file for Y0 (Inbound file containing CV data) will be created to send the successful or failure acknowledgment to DNOs and National Gas. This file will be sent out for both original and amended CV files. * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the AO/new Y0 response file. | |
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| **Assumptions** | |
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| Below are any assumptions that have been made in the course of carrying out this High Level Solution Option (HLSO) Impact Assessment. | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ref** | **Assumption** | **Notes** | | A1 | No Changes to any data processing job schedules or SLAs | SLAs | | A2 | Relevant changes to the AO and Y0 files will be made at the customers end inline with CDSP changes. This is out of scope of CDSP HLSO efforts and costs. | File formats | | A3 | No Changes to existing AI and Y0 inbound file processing or file formats | File formats | | A4 | Existing Excel templates do not have any password protection and this will be the same for FWACV Phase 2. | Emails | | A5 | Market Trial testing is out of scope for this HLSO | Testing | | A6 | There is no changes in the volumetrics of data hence performance testing is not included in the HLSO efforts and costing. | Testing | | A7 | Existing UKLink Development and testing environments to be used for this change | Testing | | A8 | No major migration of data requirements | Data | | A9 | Any changes to the Attribution Mapping Matrix and site configurations will be provided to CDSP as part of Detailed Design Phase | Data | | A10 | No Changes to the existing Energy/Shrinkage report template | Reporting | | A11 | No Changes to the core FWACV calculation formulae and Lowest CV calculation rules. | Functional Process | | A12 | That existing UK Link DEV and QA environments will be used to deliver this change | Environments | | A13 | That Data in the Clear Testing is not required. | Security | | |
|  | |
|  | |
| **Dependencies/Dependents** | |
|  | |
| Below are any dependencies for and against this Solution Option that have been made in the course of carrying out this High-Level Solution Option (HLSO) Impact Assessment. | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ref** | **Dependency** | **Notes** | | D1 | FWACV Phase 2 has a dependency on customers (DNOs, National Gas) to provide/agree below details during the Detailed Design Phase:   * CV range for validations * Email and email attachment templates * Configuration details * Attribution Mapping Matrix updates * Assumptions/Risks * Notification/Batch Timings if applicable.   Finalised email distribution lists |  | | D2 | Dependency on the inflight projects/releases to share the existing UK Link environment |  | | D3 | Customers will require a standard/agreed notice period to update the industry flows for this change. |  | | |
| |  |  |  | | --- | --- | --- | | **Ref** | **Risk** | **Mitigation** | | R1 |  |  | | |
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| **Governance Approach** | |
|  | |
| The standard DSC change process will be followed. | |
|  | |
|  | |
| **Delivery Approach** | |
|  | |
| Scoping and Delivery of this option will require a Major/Adhoc release. | |
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| **Additional Information** | |
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| There is no additional information for this option. | |

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| **Option 3 – Process Enhancements and Automation Requirements**  **Solution Overview** | |
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| **Solution Option 3** would deliver the ‘Must Have’ and ‘Should Have’ requirements; | |
|  | |
| * Automation of existing FWACV processes to upload and validate data received from DNOs, National Gas and Grain LNG via email.   + CV, volume & energy values   + Existing and new site configuration updates.   + LOR data. * New process for submission of separate Calorific Values and gas flow values (Volume) for inter LDZ transfer sites ( EM-WM and NT-SO) using the existing file transfer mechanism. * New process for biomethane sites to be able to use an alternate site for LDZ CV Capping and use the original site CV for FWACV calculations (including reporting to Ofgem) * Consolidation of existing emails sent to DNOs and National Gas (where applicable) to a single email that includes:   + LDZ CV Capping notification   + Default CV   + Missing CV   + Missing Volume   + Lowest CV * A new D+4 notification sent to DNOs and National Gas via email to notify 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. As part of this requirement, any historic LORs and data fixes will be agreed during design * New daily EOD automated report sent via email to DNOs agreed distribution list. The report will include   + Substituted Site Information - (Gas Flow Day, LDZ, Site Name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status | |
|  | |
|  | |
| **Constituency Impact Overview** | |
|  | |
| Below provides a high-level view of impacts per DSC Customers and industry parties, more details and reasoning for such are outlined in the later sections.  Please note that the below is the view of the CDSP following analysis to date on the solution option being proposed. It is encouraged for representatives to carry out their own assessment and where possible provide feedback if they feel the below is not a true representation of the impacts that would be felt if the proposed solution option were to be progressed with and implemented. | |
|  | |
| |  |  |  | | --- | --- | --- | | Gauge with solid fill  High | N/A |  | |  |  | | Speedometer Middle with solid fill  Medium | Distribution Network Operator (DNO)  National Gas | |  |  | | Speedometer Low with solid fill  Low | Grain LNG | | |
| **Solution Impact Summary** | |
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| The below provides a high-level summary of the proposed solution option, additional details for each are provided in subsequent sections. | |
|  | |
| CDSP Impact: | **High** |
| Customer Impact: | **Low** |
| Release Type: | **Major/Adhoc** |
| Cost Estimate: | **£264,000 to £319,000** |
| Customer Requirement Coverage: | **81%** |
|  | |
|  | |
| **Estimated Cost Breakdown** | |
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| Estimated costs provided are indicative and based on high level analysis to date and may be subject to change if the solution moves further through change development. | |
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| |  |  |  | | --- | --- | --- | | **Development / Implementation Costs** | | | | **Element** | **Lower** | **Upper** | | Design | £48,000 | £58,000 | | Delivery | £192,000 | £232,000 | | Customer Contingency | £24,000 | £29,000 | | **Total** | **£264,000** | **£319,000** | | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ongoing Costs** | | | | **Element** | **Lower** | **Upper** | | Service & Operate | -£108,000 | -£108,000 | | Contracting & Assurance | 0 | 0 | | Other | 0 | 0 | | **Total** | **£108,000** | **-£108,000** | | |
| A high-level assessment of delivering Option 3 automation requirements will lead to a reduction in the annual FWACV Service & Operate Costs. This will be confirmed during Detailed Design and, in the presentation of the BER. | |
|  | | |
| **CDSP Technical Overview** | | |
|  | | |
| The CDSP systems impacted by the proposed solution are outlined below with details on how they are affected and what is involved.  **UK LINK-SAP ISU/SAP PO**   * **CR1.1**-Automation of existing system upload programs to upload and validate data received from DNOs, National Gas and Grain LNG via email.   + CV, volume & energy values   + Existing and new site configuration updates.   + LOR data.   The email attachments will read, validated with the existing screen validations, and loaded automatically into the systems and upon processing the email a response via email will be sent to the DNO, National Gas and the operational team with a successful status or a relevant rejection reason.   * **CR1.3.1**-Changes to the existing LDZ inter transfer sites to receive and store separate CV and volume volumes in system for EM-WM and NT-SO sites configuration. Amendments to FWACV calculation and Attribution process for these sites as part of the new set up. Changes to the ISU system so that the OFGEM report reflect the relevant changes for the Inter LDZ site type. * **CR1.3.3**- Changes to the existing site configuration to differentiate the CV that is eligible for LDZ CV Capping and CV that will participate in AS-IS FWACV Attribution, Substitution and Calculation process. A new parameter will be setup to identify sites that needs to participate in LDZ CV Capping but not in FWACV process. The exact configuration and the list of sites to be agreed with customers during Detailed Design Phase. * **CR1.5.1, CR1.5.2 and CR1.5.3-** Consolidation of below emails   + New Email (Consolidated) template with existing notification attachments (that includes Default CV, Lowest CV, Missing CV, Missing Volume and LDZ CV Capping) will be created and sent to the agreed list of email recipients. The email attachments will be in the .XLSX format to ensure it is in line with the other requirements as part of FWACV2.   + Consolidated LDZ CV Capping email triggered for LOR scenario outside D+5 close, a single email for the entire LOR period send to relevant DNOs. * **CR1.5.4 –**  A new end of day automated report will be created and sent via email to DNOs agreed distribution list. The report will include   + Substituted Site Information - (Gas Flow Day, LDZ, Site Name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status * **CR1.5.5**- A new notification for sharing the consolidated email for missing CV and missing Volume on D+4 using the existing logic used for notifications sent on D+1 and D+3. The detail and structure of the notification will be agreed with customers during detailed design phase. * **CR1.6**- Changes to the existing FWACV file processing logic to introduce the CV validation check for CV received via existing AI, Y0 files and via email. Existing screens for missing CV will be updated with the CV validation checks and the automation of missing CV logic will be updated with new validations. Appropriate rejection and reason will be created and sent to customer if the CV fails the validation. * **CR1**.**7**- Changes to the existing site configuration to capture historical information for any site changes. LOR upload program to be modified to use the historical site information where relevant and validations performed correctly. FWACV calculation to be updated to ensure the correct information is used for -recalculation of FWACV for the declared LOR period. The exact validations will be agreed with customers as part of detailed design phase and any changes to the existing process will be updated. * **CR1**.**8**- Changes to the existing configuration tables (Site, Attribution) to retain the changes and maintain history.   **File Format Updates**   * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the existing AO file / New EOD Summary report. | | |
| **Operational Process**   * **CR1.3.2**- A operational process in place for customers to be able request for any inter LDZ site transfer ( i.e. EM-WM,NT-SO) split via service request. The process followed in FWACV Phase 2 will be documented for any future requests from customer. * **CR1.3.3**- A operational process in place for customers to be able to request for any onshore/biomethane sites to be able to have sites participate in LDZ Capping and FWACV processes as per request   **Other systems reviewed with no impact or changes identified within scope**   * Gemini * Market Flow | | |
| **Perceived Impacts to Industry Parties** | | | |
|  | | | |
| Below provides customers with a steer on potential impacts to industry parties that are not directly linked to DSC. Please note that this is perceived impacts and are not fully known or is an extensive list.  We encourage all industry participants to review the contents within this document and make their own determinations on potential impacts as the CDSP would not have full visibility or understanding of such. | | | |
|  | | | |
| **Shipper Impacts**   * No Impacts identified as part of this change to the Shipper community.   **DNOs and National Gas Impacts**   * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the AO/new EOD Summary report. | | | |
|  | | | |
| **Assumptions** | | | |
|  | | | |
| Below are any assumptions that have been made in the course of carrying out this High-Level Solution Option (HLSO) Impact Assessment. | | | |
|  | | | |
| |  |  |  |  | | --- | --- | --- | --- | | **Ref** | **Assumption** | | **Notes** | | A1 | No Changes to any data processing job schedules or SLAs | | SLAs | | A2 | Relevant changes to the AO and Y0 files will be made at the customers end inline with CDSP changes. This is out of scope of CDSP HLSO efforts and costs. | | File formats | | A3 | No Changes to existing AI and Y0 inbound file processing or file formats | | File formats | | A4 | Existing Excel templates do not have any password protection, and this will be the same for FWACV Phase2. | | Emails | | A5 | Market Trial testing is out of scope for this HLSO | | Testing | | A6 | There is no changes in the volumetrics of data hence performance testing is not included in the HLSO efforts and costing. | | Testing | | A7 | Existing UKLink Development and testing environments to be used for this change | Testing | | | A8 | No major migration of data requirements | | Data | | A9 | Any changes to the Attribution Mapping Matrix and site configurations will be provided to CDSP as part of Detailed Design Phase | | Data | | A10 | No Changes to the existing Energy/Shrinkage report template | | Reporting | | A11 | No Changes to the core FWACV calculation process other than changes to the LDZ CV Capping process | Functional Process | | | A12 | No Changes to the new site creation, existing site update process. | Functional Process | | | A13 | Estimate assumes that an existing UK Link DEV and QA environment track will be used to deliver this change. | Environments | | | A14 | Data in the Clear Testing will not be required. | Security | | | | | |
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| **Dependencies/Dependents** | |
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| Below are any dependencies for and against this Solution Option that have been made in the course of carrying out this High-Level Solution Option (HLSO) Impact Assessment. | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ref** | **Dependency** | **Notes** | | D1 | FWACV Phase 2 has a dependency on customers (DNOs, NG) to provide/agree below details during the Detailed Design Phase:   * CV range for validations * Email and email attachment templates * Configuration details * Attribution Mapping Matrix updates * Assumptions/Risks * Notification/Batch Timings if applicable. * Finalised email distribution lists |  | | D2 | Dependency on the inflight projects/releases to share the existing UK Link environment |  | | D3 | Customers will require a standard/agreed notice period to update the industry flows for this change. |  | | |
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| **Risks** | |
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| Below are any risks that have been identified in the course of carrying out this High Level Solution Option (HLSO) Impact Assessment. | |
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| |  |  |  | | --- | --- | --- | | **Ref** | **Risk** | **Mitigation** | |  |  |  | | |
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| **Governance Approach** | |
|  | |
| The standard DSC change process will be followed. | |
|  | |
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| **Delivery Approach** | |
|  | |
| Scoping and Delivery of this option will require a Major/Adhoc release. | |
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| **Additional Information** | |
|  | |
| There is no additional information for this option. | |

**Option 4 – Process Enhancements Only**

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| **Solution Overview** | |
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| **Solution Option 4** would deliver the ‘Must Have’ requirements; | |
|  | |
| * New process for submission of separate Calorific Values and flow (volume) for inter LDZ transfer sites (EM-WM and NT-SO) using the existing file transfer mechanism. * New process for biomethane sites to be able to use an alternate site for LDZ CV Capping and use the original site CV for FWACV calculations (including reporting to Ofgem) * Consolidation of existing emails sent to DNOs and National Gas (where applicable) to a single email that includes:   + LDZ CV Capping notification   + Default CV   + Missing CV   + Missing Volume   + Lowest CV * A new D+4 notification sent to DNOs and National Gas via email to notify 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. As part of this requirement, any historic LORs and data fixes will be agreed during design | |
| **Constituency Impact Overview** | |
|  | |
| Below provides a high-level view of impacts per DSC Customers and industry parties, more details and reasoning for such are outlined in the later sections.  Please note that the below is the view of the CDSP following analysis to date on the solution option being proposed. It is encouraged for representatives to carry out their own assessment and where possible provide feedback if they feel the below is not a true representation of the impacts that would be felt if the proposed solution option were to be progressed with and implemented. | |
|  | |
| |  |  |  | | --- | --- | --- | | Gauge with solid fill  High | N/A |  | |  |  | | Speedometer Middle with solid fill  Medium | Distribution Network Operator (DNO)  National Gas | |  |  | | Speedometer Low with solid fill  Low | Grain LNG | | |
|  | |
|  | |
| **Solution Impact Summary** | |
|  | |
| The below provides a high-level summary of the proposed solution option, additional details for each are provided in subsequent sections. | |
|  | |
| CDSP Impact: | **Medium** |
| Customer Impact: | **Low** |
| Release Type: | **Major/Adhoc** |
| Cost Estimate: | **£198,000 to £275,000** |
| Customer Requirement Coverage: | **57%** |
|  | |
|  | |
| **Estimated Cost Breakdown** | |
|  | |
| Estimated costs provided are indicative and based on high level analysis to date and may be subject to change if the solution moves further through change development. | |
|  | |
| |  |  |  | | --- | --- | --- | | **Development / Implementation Costs** | | | | **Element** | **Lower** | **Upper** | | Design | £36,000 | £50,000 | | Delivery | £144,000 | £200,000 | | Customer Contingency | £18,000 | £25,000 | | **Total** | **£198,000** | **£275,000** | | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ongoing Costs** | | | | **Element** | **Lower** | **Upper** | | Service & Operate | 0 | 0 | | Contracting & Assurance | 0 | 0 | | Other | 0 | 0 | | **Total** | 0 | 0 | | |
| Additional ongoing costs are not expected for this change; however, this will be confirmed during Detailed Design and in the presentation of the BER. | |
|  | |
| **CDSP Technical Overview** | |
|  | |
| The CDSP systems impacted by the proposed solution are outlined below with details on how they are affected and what is involved.  **UK LINK-SAP ISU/SAP PO**   * **CR1.3.1**-Changes to the existing LDZ inter transfer sites to receive and store separate CV and volume volumes in system for EM-WM and NT-SO site configuration. Amendments to FWACV calculation and the Attribution process for these sites as part of the new set up. Changes to the SAP ISU system so that the OFGEM report reflect the relevant changes for the Inter LDZ site type. * **CR1.3.3**- Changes to the existing site configuration to differentiate the CV that is eligible for LDZ CV Capping and CV that will participate in AS-IS FWACV Attribution, Substitution and Calculation process. A new parameter will be setup to identify sites that needs to participate in LDZ CV Capping but not in FWACV process. The exact configuration and the list of sites to be agreed with customers during detailed design phase. * **CR1.5.1,CR1.5.2 and CR1.5.3-** Consolidation of below emails   + New Email (Consolidated) template with existing notification attachments (that includes Default CV, Lowest CV, Missing CV, Missing Volume and LDZ CV Capping) will be created and sent to the agreed list of email recipients. The email attachments will be in the .XLSX format to ensure it is in line with the other requirements as part of FWACV Phase 2.   + Consolidated LDZ CV Capping email triggered for LOR scenario outside D+5 close, a single email for the entire LOR period send to relevant DNOs. * **CR1.5.4 –**  Existing manual report will be updated and sent via email to DNOs agreed distribution list. The report will be updated to include   + Substituted Site Information - (Gas Flow Day, LDZ, Site Name, Substituted Value - CV, Volume, Energy)   + Capped Site Information - (Gas Flow Day, LDZ, Site Name, Capped CV)   + AO File Acceptance/Rejection Status   + Y0 File Acceptance/Rejection Status * **CR1.5.5**- A new notification for sharing the consolidated email for missing CV and missing Volume on D+4 using the existing logic used for notifications sent on D+1 and D+3. The detail and structure of the notification will be agreed with customers during detailed design phase. * **CR1.6**- Changes to the existing FWACV file processing logic to introduce the CV validation check for CV received via existing AI, Y0 files and via email. Existing screens for missing CV will be updated with the CV validation checks. Appropriate rejection and reason will be created and sent to customer if the CV fails the validation. * **CR1**.**7**- Changes to the existing site configuration to capture historical information for any site changes. LOR upload program to be modified to use the historical site information where relevant and validations performed correctly. FWACV calculation to be updated to ensure the correct information is used for -recalculation of FWACV for the declared LOR period. The exact validations will be agreed with customers as part of detailed design phase and any changes to the existing process will be updated. * **CR1**.**8**- Changes to the existing configuration tables (Site, Attribution) to retain the changes and maintain history.   **File Format Updates**   * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the existing AO file interface/new EOD Summary report. | |
| **Operational Process**   * **CR1.3.2**- A operational process in place for customers to be able request for any inter LDZ site transfer ( i.e. EM-WM,NT-SO) split via service request. The process followed in FWACV Phase 2 will be documented for any future requests from customer. * **CR1.3.3**- A operational process in place for customers to be able to request for any onshore/biomethane sites to be able to have sites participate in LDZ Capping and FWACV processes as per request   **Other systems reviewed with no impact or changes identified within scope**   * Gemini * Market Flow | |
|  | |
| **Perceived Impacts to Industry Parties** | |
|  | |
| Below provides customers with a steer on potential impacts to industry parties that are not directly linked to DSC.  We encourage **all** industry participants to review the contents within this document and make their own determinations on potential impacts as the CDSP would not have full visibility or understanding of such. | |
|  | |
| **Shipper Impacts**   * No Impacts identified as part of this change to the Shipper community.   **DNOs and National Gas Impacts**   * **CR1.6-** New rejection reason will be introduced for the new CV validation checks and will be sent in the existing AO file interface/new EOD Summary report. | |
|  | |
| **Assumptions** | |
|  | |
| Below are any assumptions that have been made in the course of carrying out this High Level Solution Option (HLSO) Impact Assessment. | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ref** | **Assumption** | **Notes** | | A1 | No Changes to any data processing job schedules or SLAs | SLAs | | A2 | Relevant changes to the AO and Y0 files will be made at the customers end in line with CDSP changes. This is out of scope of CDSP HLSO efforts and costs. | File formats | | A3 | No Changes to existing AI and Y0 inbound file processing or file formats | File formats | | A4 | Existing Excel templates do not have any password protection, and this will be the same for FWACV Phase 2. | Emails | | A5 | Market Trial testing is out of scope for this HLSO | Testing | | A6 | There is no changes in the volumetrics of data hence performance testing is not included in the HLSO efforts and costing. | Testing | | A7 | Existing UK Link Development and testing environments to be used for this change | Testing | | A8 | No major migration of data requirements | Data | | A9 | Any changes to the Attribution Mapping Matrix and site configurations will be provided to CDSP as part of Detailed Design Phase | Data | | A10 | No Changes to the existing Energy/Shrinkage report template | Reporting | | A11 | No Changes to the core FWACV calculation formulae and Lowest CV calculation rules. | Functional Process | | A12 | That existing UK Link DEV and QA environments will be used to deliver this change | Environments | | A13 | That Data in the Clear Testing is not required. | Security | | |
|  | |
|  | |
| **Dependencies/Dependents** | |
|  | |
| Below are any dependencies for and against this Solution Option that have been made in the course of carrying out this High-Level Solution Option (HLSO) Impact Assessment. | |
|  | |
| |  |  |  | | --- | --- | --- | | **Ref** | **Dependency** | **Notes** | | D1 | FWACV Phase 2 has a dependency on customers(DNOs, National Gas) to provide/agree below details during the Detailed Design Phase:   * CV range for validations * Email and email attachment templates * Configuration details * Attribution Mapping Matrix updates * Assumptions/Risks * Notification/Batch Timings if applicable.   Finalised email distribution lists |  | | D2 | Dependency on the inflight projects/releases to share the existing UK Link environment |  | | D3 | Customers will require a standard/agreed notice period to update the industry flows for this change. |  | | |
| |  |  |  | | --- | --- | --- | | **Ref** | **Risk** | **Mitigation** | | R1 |  |  | | |
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|  | |
| **Governance Approach** | |
|  | |
| The standard DSC change process will be followed. | |
|  | |
|  | |
| **Delivery Approach** | |
|  | |
| Scoping and Delivery of this option will require a Major/Adhoc release. | |
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| **Additional Information** | |
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| There is no additional information for this option. | |

**Appendix 2 - Glossary**

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| **Glossary** |
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| |  |  | | --- | --- | | **Term/Acronym** | **Definition** | | DSC | Data Services Contract | | CDSP | Central Data Service Provider | | SAP ISU/PO | System Applications and Products in data processing | | MOVEit | SFTP service to transfer and receive files | |
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**Version Control**

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| **Document** |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **#** | **Date** | **Author** | **Status** | **Update** | | V0.1 | 24-05-23 | Phanitha Chalasani | For Review |  | | V0.2 | 12-10-23 | Phanitha Chalasani | For Review | Updated with the review comments. | | V1.0 | 12-10-23 | Phanitha Chalasani | For Approval |  | | V2.0 | 07-11-23 | Phanitha Chalasani | For Approval | Options 3 and 4 added | | V3.0 | 9-11-23 | Tara Ross | For Approval | Updates made to include S&O cost reduction information | | V4.0 | 27-11-23 | Phanitha Chalasani | For Approval | As agreed with the DNOs, options 2, 3 4 have now been discounted from this solution change pack consultation | |
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| **Template** |
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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **#** | **Date** | **Author** | **Status** | **Update** | | 1.0 | 01 Apr 23 | Simon Harris | Live | Baselined HLSO Template. | |  |  |  |  |  | |
|  |