

Section D: High Level Solution

D1: The Proposed Solution

<p style="text-align: center;">Solution Option Summary:</p>	<p>The background to this change is that National Grid has announced it is to withdraw from providing the Distribution Network Operators (DNs) with the daily LDZ Flow-Weighted Average CV calculation (FWACV) service.</p> <p>The DN's have agreed that Xoserve as the Central Data Service Provider should take on the FWACV calculation role in its entirety from National Grid.</p> <p>This will see Xoserve receiving Calorific Values for Entry Points within each LDZ, directly from Distribution Networks. Xoserve will then validate these inputs and calculate LDZ Flow Weighted Average Calorific Value figures, before making the associated data available for use in Gemini, and ensuring Shippers continue to receive this data via the existing mechanisms in place.</p> <p>Multiple workshops have taken place throughout 2021 with Distribution Network and National Grid representatives, where information relating to the current FWACV service, and requirements for the changes that need to be made, have been captured and approved.</p> <p>Xoserve have taken these requirements and assessed the technical and operational solutions available to meet them. A link to the associated Change Proposal can be found here: XRN 5231 Xoserve</p>
	<p><u>Solution Description</u></p> <p>The attached HLSO outlines at a conceptual, high level, how Xoserve are proposing to integrate this new FWACV Service into the current suite of Central Data Service Provider systems.</p> <p>The solution will be built as a new SAP module, using SAP licenses, and creating a FWACV 'add in' application in UK Link Portal with exception management. A new workflow, supporting the calculation engine aspect of the FWACV service, will be built within SAP ISU, independent of the main UK Link application, whilst re-using existing integration layers of IX, EFT and SAP PO.</p> <ul style="list-style-type: none">• The input files (AI and YO) will be received from the Distribution Networks (DNs) and National Grid, using the existing IX/EFT Gateway.• Validations will be performed and acknowledged from the SAP PO layer.• The FWACV calculation with in-built workflow process will be built in SAP ISU system.• All communication with the Networks will be managed using the User Interface (UI) screen to be built in UK Link Portal• A new SAP screen will be built for Central Data Service Provider operational users, to input and view the CV values provided by the Networks.• The FWACV calculated values will be sent to NG and Gemini using IX/EFT Gateway• It is proposed that the SC9 file, which Shippers receive as an output of the current service, will continue to be issued using the existing mechanism and format.• A Monthly Audit Report to Ofgem will be built in and published using SAP ISU system• The Reporting mechanism for the Operational team to analyse the Service Performance using SAP ISU system.• In Loss of Record scenario, the calculated FWACV values will be sent to Market Information Provision Initiative (MIPI) using existing communication Gateway with MIPI.• Loss of Record notification to Ofgem will use the existing IX/EFT Gateway in the same file structure that is currently used.• Data migration will be needed to carry out certain Business Processes including Attribution Process. <p><u>Detailed Design Phase</u></p> <p>As the functionality of this new service is not fully known, to ensure accurate cost and delivery timescales can be obtained, at ChMC on Wednesday 11th August 2021, Xoserve requested approval from DSC Change Managers to proceed into the Detailed Design phase of the Flow Weighted Average Calorific Value (FWACV) Service project. This request was unanimously approved by the appropriate voting members.</p> <p>The Outputs from Detailed Design have been confirmed as follows:</p> <ul style="list-style-type: none">• Detailed Design Change Pack<ul style="list-style-type: none">➢ Including accurate forecast of timescales and cost to build, test and implement the solution as well as a forecast of the on-going run costs once the solution is live in production.

	<ul style="list-style-type: none"> • Detailed Overall Solution Design Document • Interface Specification documentation • Creation of a Traceability Matrix that clearly defines the original requirement(s) through to the proposed system solution(s) within the Interface Specification documentation and mapping to the System Testing Test Cases • Identification of existing System Design Documentation that will need updating prior to this solution going live. • New System Design Documentation for any / all new applications and interfaces being delivered as part of this project. • Identification of any external impacted systems / businesses • Detailed delivery plan for the remainder of the project <p>It is anticipated that Detailed Design will conclude on Friday 8th October 2021.</p>
Xoserve preferred option: (including rationale)	Single High-Level Solution Option – as outlined above.
DSG preferred solution option: (including rationale)	
Consultation closeout:	31/08/2021

Impact on Service Line(s) and funding (A6) for each Solution Option:	(If differ from original assessment in A6)
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Section E: Industry Response Solution Options Review

E1: Organisation's preferred solution option

User Contact Details:	Organisation:	EDF
	Name:	Eleanor Laurence
	Email:	eleanor.laurence@edfenergy.com
	Telephone:	07875117771
Organisation's preferred solution option, including rationale taking into account costs, risks, resource etc.	Happy with the proposal - we just want to make sure that the information provided at: https://www.nationalgrid.com/uk/gas-transmission/data-and-operations/calorific-value-cv including Data Item Explorer and Report Explorer - either remains or is replaced with an equivalent as this is something that we use	
Implementation Date:	Approve	
Xoserve preferred solution option:	Approve	
DSG preferred solution option:	Approve	
Publication of consultation response:	N/A	

E2: Xoserve's Response

Xoserve Response to Organisations Comments:	Thank you for your representation.	
	We are working in close collaboration with National Grid and the DNs to ensure a smooth transition, for all parties, to the new Xoserve FWACV Service.	
	We can confirm the daily LDZ CV data will continue to be published on National Grid's website (Data Item Explorer and Report Explorer).	

E1: Organisation's preferred solution option

User Contact Details:	Organisation:	SSE Energy Supply Limited
	Name:	Mark Jones
	Email:	mark.jones@sse.com
	Telephone:	07810858716

Organisation's preferred solution option, including rationale taking into account costs, risks, resource etc.	We agree with the solution as detailed by Xoserve. However, given the critical importance of the SC9 file to industry parties, the solution must be fully tested before being implemented.
Implementation Date:	Approve
Xoserve preferred solution option:	Approve
DSG preferred solution option:	Approve
Publication of consultation response:	N/A

E2: Xoserve's Response

Xoserve Response to Organisations Comments:	<p>Thank you for your representation.</p> <p>We are working in close collaboration with National Grid and the DNs to ensure a smooth transition, for all parties, to the new Xoserve FWACV Service.</p> <p>We are cognisant of the critical importance of the SC9 files to industry parties including Shipper/Supplier settlement and invoicing processes. There are no proposed changes to the SC9 file formats or, the current delivery mechanism (IX) to shippers.</p> <p>Assurance testing of the solution will include parallel testing between Xoserve, National Grid, the DNs with shippers being appraised of the test results.</p>
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E1: Organisation's preferred solution option

User Contact Details:	Organisation:	EON
	Name:	Clare Manning
	Email:	clare.manning@eonenergy.com
	Telephone:	07812 3667271
Organisation's preferred solution option, including rationale taking into account costs, risks, resource etc.	<p>There is only one option being presented</p> <p>We would expect the same level of validation to be carried out by the CDSP as is currently done by National Grid. We would like clarity on what contingency there is to prevent impacts on FWACV; we would want sufficient flexibility to prevent a missing value or a low CV entry impacting the FWACV inappropriately.</p>	
Implementation Date:	N/A	
Xoserve preferred solution option:	Support	

DSG preferred solution option:	N/A
Publication of consultation response:	N/A

E2: Xoserve's Response

Xoserve Response to Organisations Comments:	<p>Thank you for your representation.</p> <p>We are working in close collaboration with National Grid and the DNs to ensure a smooth transition, for all parties, to the new Xoserve FWACV Service.</p> <p>We are cognisant of the critical importance of Daily LDZ CV information to industry parties including Shipper/Supplier settlement and invoicing processes. Xoserve's absolute primary objective is to ensure that the solution process (including flexibility) replicates (and improves where possible) the current FWACV service.</p>
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Section F: Approved Solution Option

F1: Approved Solution Option

XRN Reference:	XRN5231
Solution Details:	Option 1: Azure and SAP module using SAP licenses to build separate FWACV 'add in' application with new Azure UI and exception management. Azure Apps – UI/Workflow + SAP ISU – Business Logic/ Master Data + BDP - Reporting
Implementation Date:	Standalone release proposed April 22
Approved By:	Change Management Committee
Date of Approval:	08/09/2021