

# DSC Change Proposal Document

Customers to fill out all of the information in the sections coloured

Xoserve to fill out all of the information in the sections coloured

## A1: General Details

Change Reference:	XRN4900		
Change Title:	Biomethane Sites with Reduced Propane Injection		
Date Raised:	13/06/2021		
Sponsor Representative Details:	Organisation:	Scotland and Southern Gas Networks (SGN)	
	Name:	Sally Hardman	
	Email:	Sally.Hardman@sgn.co.uk	
	Telephone:	07970 019027	
Xoserve Representative Details:	Name:	Steve Pownall	
	Email:	Steve.Pownall@xoserve.com	
	Telephone:	0121 229 2671	
	Business Owner:	TBC	
Change Status:	<input type="checkbox"/> Proposal	<input type="checkbox"/> With DSG	<input type="checkbox"/> Out for Review
	<input type="checkbox"/> Voting	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Rejected

## A2: Impacted Parties

Customer Class(es):	<input checked="" type="checkbox"/> Shipper	<input checked="" type="checkbox"/> Distribution Network Operator
	<input type="checkbox"/> NG Transmission	<input type="checkbox"/> IGT
	<input type="checkbox"/> All	<input type="checkbox"/> Other <Please provide details here>
Justification for Customer Class(es) selection		

## A3: Proposer Requirements / Final Change

Change Statement:	<p>As part of its carbon Net Zero ambitions, SGN is assessing the potential to reduce the requirement to inject propane at biomethane entry points in Scotland. LDZ embedded entry points may inject biomethane with ~4% propane content to increase the energy value of the gas to meet the GDN target CV which is calculated based on the current Scotland LDZ average daily CV (FWACV).</p> <p>Injecting propane is costly to biomethane producers and, serves to reduce the environmental credentials; propane is largely a non-renewable fossil fuel gas which has a much higher carbon footprint than standard bio-methane gas. SGN is working with biomethane</p>
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	<p>producers to establish a method for reducing the volume of propane required whilst recognising:</p> <ul style="list-style-type: none"> <li>• Rules associated with CV Capping at an LDZ level and;</li> <li>• Compliance with Statutory legislation: GS(M)R / Thermal energy regulations</li> </ul> <p>The impact of removing the propane injection from biomethane is that it effectively lowers the Calorific Value (CV) and increases the volume of gas required through associated Shippers' Supply Meter Points to meet the same energy requirement for end users. This will increase costs to those Shippers unless Xoserve can mitigate this through a system solution.</p> <p>For those Supply Meter Points offtaking gas with a reduced CV, SGN intends to provide and, request Xoserve to apply, a 'site specific CV'; whereby an energy adjustment will be applied prior to the D+5 closeout period.</p>	
Change Description:	<p>To facilitate the correct energy balancing / billing and transportation charging (use of a site-specific CV and energy adjustments), SGN requires Xoserve to provide solution options considering impacts on:</p> <ul style="list-style-type: none"> <li>• LDZ System commodity invoice,</li> <li>• LDZ Entry invoice,</li> <li>• NTS commodity invoice(s) and,</li> <li>• the relevant Shipper's energy balancing position</li> <li>• Capacity charging (incorrect consumptions would lead to incorrect AQs and possibly incorrect SOQs)</li> <li>• Impacts of meter reads, reconciliation, ratchets, check-check reads, site visits</li> <li>• Adjustments received after D+5 exit close-out</li> </ul> <p>Any acceptable solution option should be considered a pragmatic, tactical solution. Cadent's Future Billing Methodology (FBM) Project is assessing the possibility to introduce sub-LDZ CV charging zones. It is anticipated a future rollout of FBM will provide a robust and enduring solution that will support the revised biomethane arrangements.</p>	
Proposed Release:	TBC	
Proposed Consultation Period:	<input checked="" type="checkbox"/> 10 Working Days	<input type="checkbox"/> 15 Working Days
	<input type="checkbox"/> 20 Working Days	<input type="checkbox"/> Other [Specify Here]

**A4: Benefits and Justification**

Benefit Description:	<ul style="list-style-type: none"> <li>• Will support SGN/UK carbon Net Zero ambitions</li> <li>• Can be utilised by other Networks that might wish to enter into similar biomethane/propane reduction arrangements</li> <li>• Ensures Shipper/Xoserve systems and processes can accommodate the revised CVs without significant downstream impacts e.g. Energy Balancing, UIG, reconciliation &amp; settlement</li> </ul> <p><i>What, if any, are the tangible benefits of introducing this change? What, if any, are the intangible benefits of introducing this change?</i></p>	
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Benefit Realisation:	Benefits will be realised by the DN and Shippers upon implementation of this change.
	<i>When are the benefits of the change likely to be realised?</i>
Benefit Dependencies:	This change has no dependencies outside of its scope.
	<i>Please detail any dependencies that would be outside the scope of the change, this could be reliance on another delivery, reliance on some other event that the projects has not got direct control of.</i>

## A5: Final Delivery Sub-Group (DSG) Recommendations – Removed

(see Section C for DSG recommendations)

## A6: Service Lines and Funding

Service Line(s) Impacted - New or existing	<b>Ongoing/MTB costs:</b> Dependent on the solution, this may be included within an existing DSC Service Line or, a new Service Line will be added.		
Level of Impact	Major <del>Minor/ Unclear/ None</del>		
If None please give justification			
Impacts on UK Link Manual/ Data Permissions Matrix	TBC		
Level of Impact	High		
If None please give justification			
Funding Classes :	Customer Classes/ Funding	Delivery of Change	On-going Budget Amendment
	<input type="checkbox"/> Shipper	XX %	XX %
	<input type="checkbox"/> National Grid Transmission	XX %	XX %
	<input checked="" type="checkbox"/> Distribution Network Operator	100 %	100 %
	<input type="checkbox"/> IGT	XX %	XX %
	<input type="checkbox"/> Other <please specify>	XX %	XX %
ROM or funding details:	<b>Development costs:</b> SGN and the other DNs have agreed this change will be funded through their Xoserve BP21 Decarbonisation Investment Line.		
Funding Comments:			

## A7: ChMC Recommendation – Initial Review

Change Status:	<input checked="" type="checkbox"/> Approve	<input type="checkbox"/> Reject	<input type="checkbox"/> Defer
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DSC Consultation Issue:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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### A8: ChMC Recommendation – Solution Review

Change Status:	<input checked="" type="checkbox"/> Approve	<input type="checkbox"/> Reject	<input type="checkbox"/> Defer
Industry Consultation:	<input checked="" type="checkbox"/> 10 Working Days	<input type="checkbox"/> 15 Working Days	
	<input type="checkbox"/> 20 Working Days	<input type="checkbox"/> Other [Specify Here]	
DSC Consultation Issue:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Date Issued:	16/08/2021		
Comms Ref(s):	2878.2 - MT - PO		
Number of Responses:	2 approval and 2 deferred representations		
Solution Voting:	<input checked="" type="checkbox"/> Shipper	Approve	
	<input checked="" type="checkbox"/> National Grid Transmission	Approve	
	<input type="checkbox"/> Distribution Network Operator	Please select.	
	<input type="checkbox"/> IGT	Please select.	
Meeting Date:	08/09/2021		
Release Date:	Release: TBC		

### A9: ChMC Recommendation – Detailed Design

Change Status:	<input type="checkbox"/> Approve	<input type="checkbox"/> Reject	<input type="checkbox"/> Defer
Industry Consultation:	<input type="checkbox"/> 10 Working Days	<input type="checkbox"/> 15 Working Days	
	<input type="checkbox"/> 20 Working Days	<input type="checkbox"/> Other [Specify Here]	
DSC Consultation Issue:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Date Issued:	Click here to enter a date.		
Comms Ref(s):			
Number of Responses:			
Solution Voting:	<input type="checkbox"/> Shipper	Please select.	
	<input type="checkbox"/> National Grid Transmission	Please select.	
	<input type="checkbox"/> Distribution Network Operator	Please select.	
	<input type="checkbox"/> IGT	Please select.	
Meeting Date:	Click here to enter a date.		
Release Date:	Release: Feb / Jun / Nov XX or Adhoc DD/MM/YYYY or NA		