

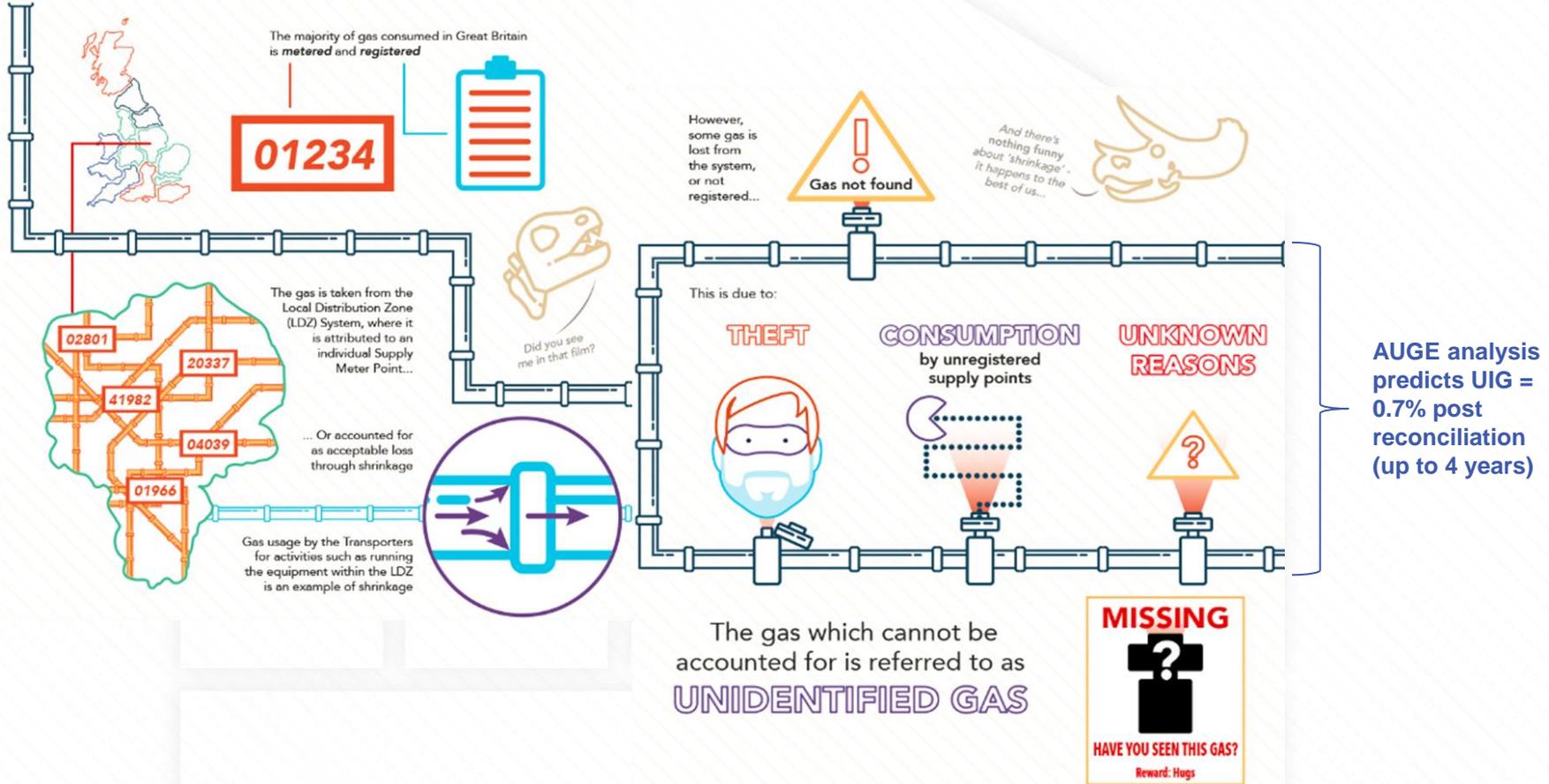


UIG Task Force Update

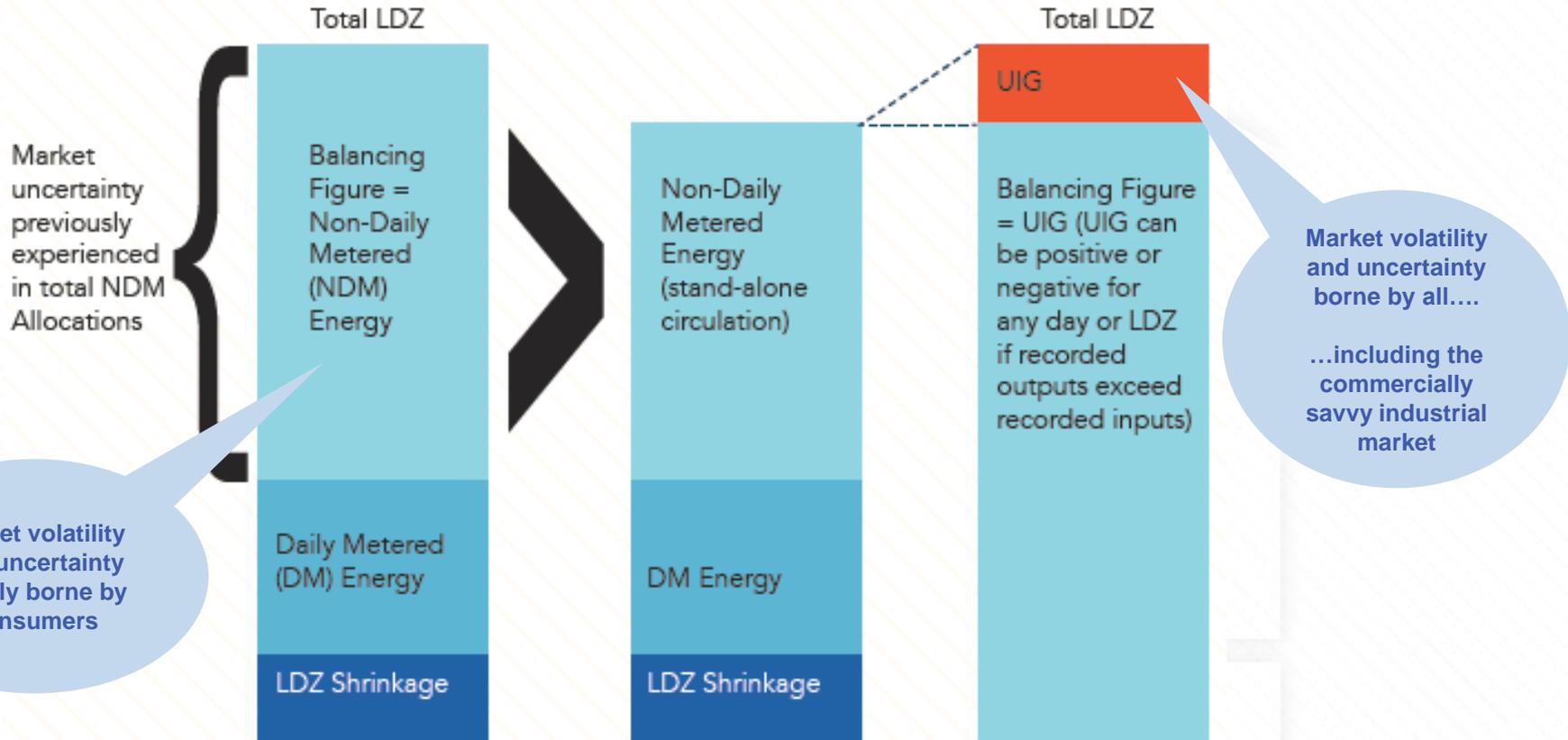
Sian Jones

V1.1 13.11.18

What is UIG?



Why is UIG suddenly a new issue?

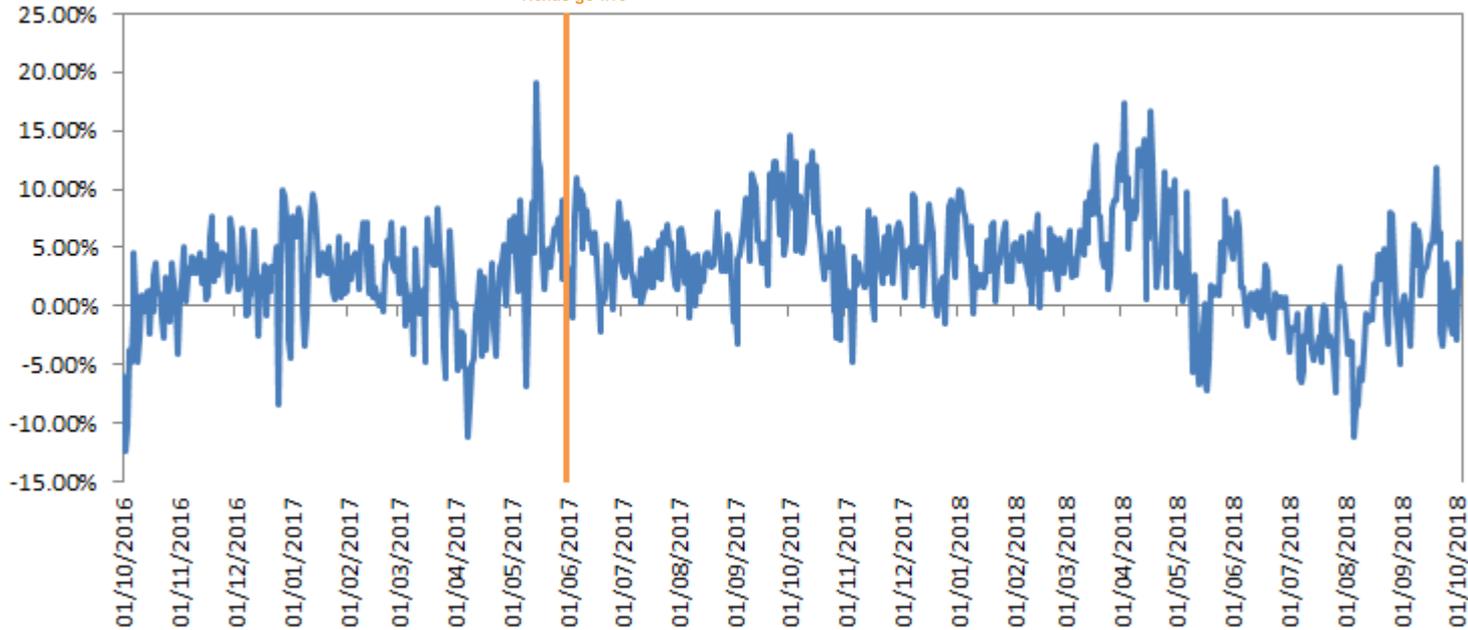


Why is UIG currently such a hot topic?

Daily National UIG as % of Total Throughput

01/10/2016 - 04/10/2018

Nexus go-live

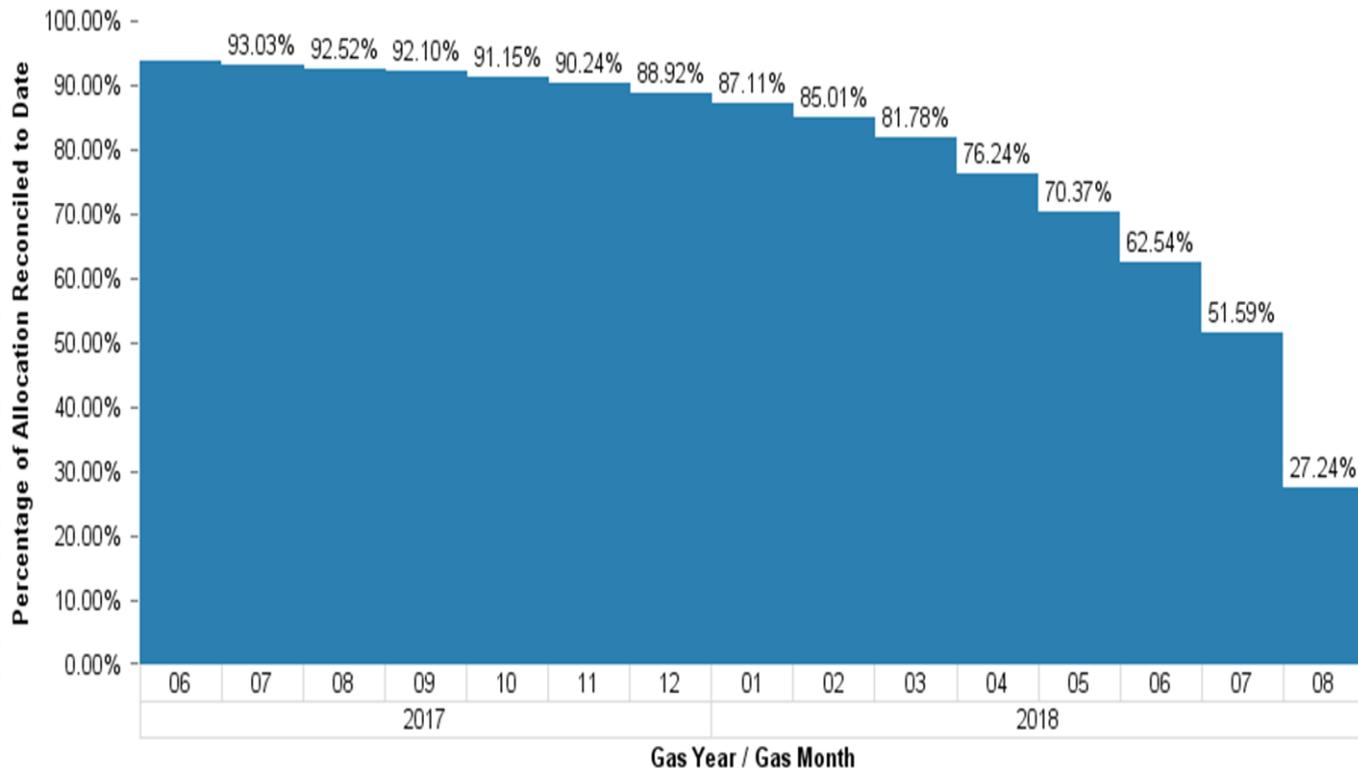


Absolute UIG and UIG volatility have been with us for a long time....

The question is should it be THIS volatile and will the ABSOLUTE levels post reconciliation reach 0.7%?

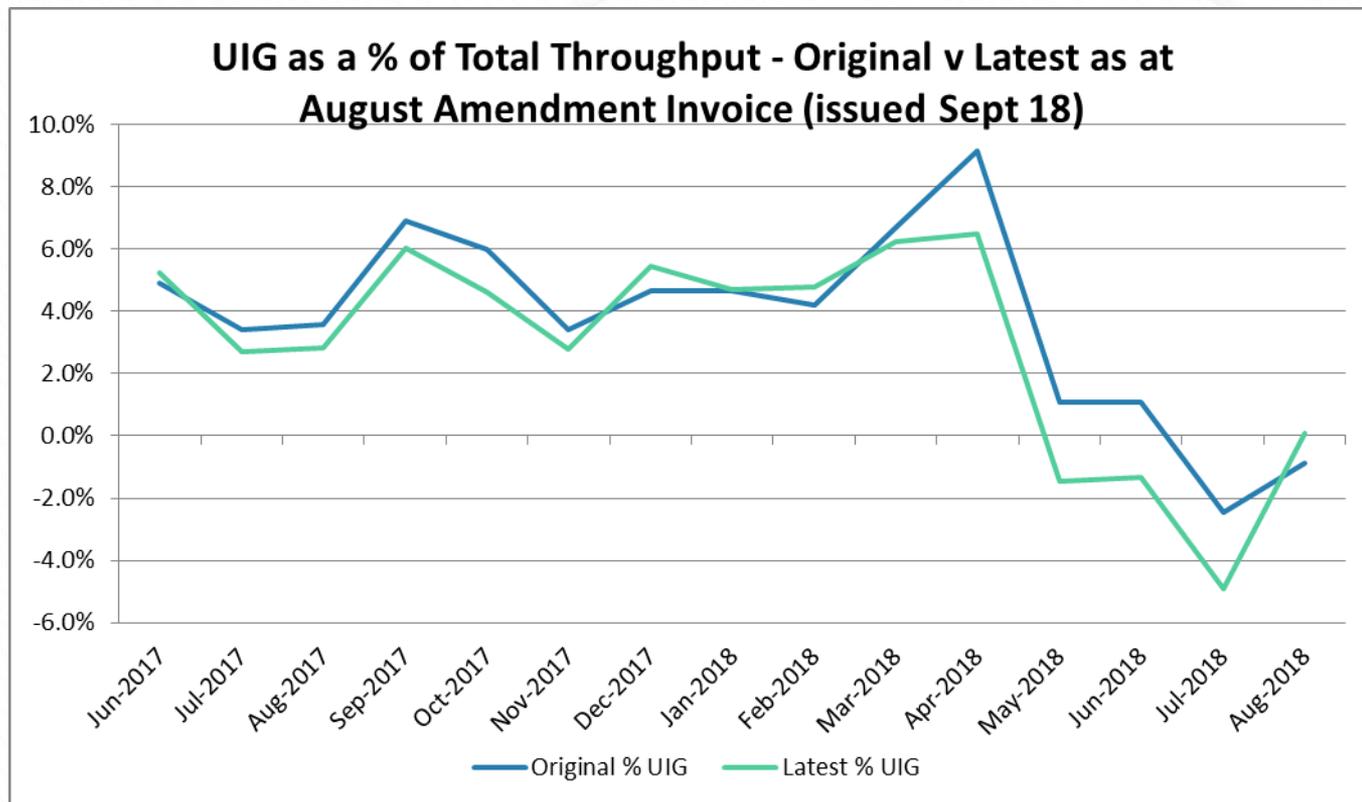
15 months on from Project Nexus....

% Allocation Reconciled Jun 2017 - Aug 2018 - Classes 3 & 4



c.80% of the energy allocated in the 15 months since Project Nexus go-live has reconciled in the UK Link system.

...UIG has dropped from 4.65% to only 4%*



UIG has averaged at 4.65% at allocation for the 15-months since Nexus.

Our customers believed it would average 1%.

This created an unexpected cost of around £18m a month.

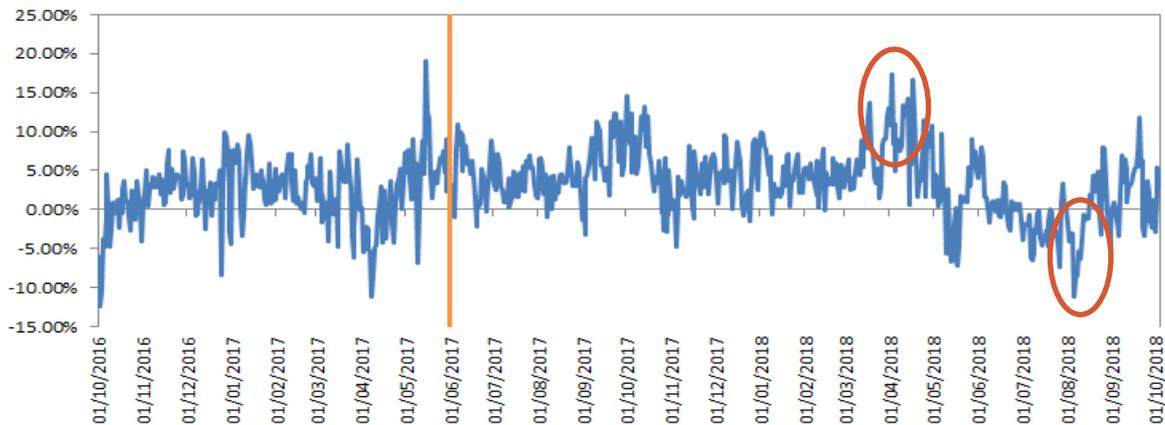
The national UIG average has reduced from 4.65% at allocation to 4% at reconciliation.

* National average

Xoserve UIG Task Force – two pronged approach

Daily National UIG as % of Total Throughput

01/10/2016 - 04/10/2018



Work-stream 1 objective: remove extreme volatility

The Xoserve task force is using advanced data analytics and machine learning to unpack the NDM algorithm, the input data and the way the market is operating – this is a very complex model and a large data set.

Work-stream 2 objective: reduce the absolute level of UIG

The Xoserve Task Force is using deep industry knowledge to identify all the drivers of absolute UIG and suggest ways in which industry can reduce this exposure.

Progress so far...Weather

Relationship to UIG

Daily weather is a key input into the daily estimation of gas usage of Non-Daily Metered (NDM) sites.

Task Force Hypothesis

“At allocation, the NDM estimation algorithm doesn’t react well enough to weather-related changes in usage”

Discoveries to date

✔ We’ve found that introducing extra weather data, for variables such as rainfall and solar radiation, into the NDM estimation algorithm could reduce the level of UIG.

Perceived timescales to fix

More than 1-year



...Annual Quantities

Relationship to UIG

The AQ is a site's estimated gas consumption total over a 12 month period.

If an AQ is wrong, this will lead to UIG.

Task Force Hypothesis

“A lack of regular meter readings will contribute to UIG: the AQ is updated if an actual meter reading is accepted by Xoserve.”

Discoveries to date

✔ We have identified a number of sites within a sample which are using significantly more gas than is indicated by their UK Link system AQ.

These outliers alone are contributing around 0.2% of national throughput to UIG.

Perceived timescales to fix

3 to 6 months



...Estimated Reads for Daily Metered Sites

Relationship to UIG

Estimated reads are used where no actual reads are available.

This may not be a good representation of the actual consumption and the difference would contribute to UIG.

Task Force Hypothesis

“A lack of regular meter readings will contribute to UIG: where actual reads are not received or are rejected, for Class 1 or 2 sites a D-7 estimate is used.”

Discoveries to date

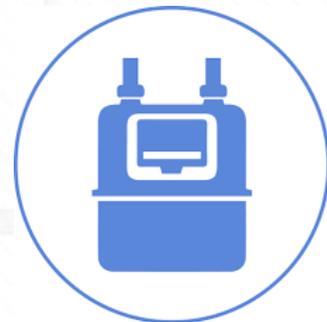
✓ We've found a handful of large sites that should be daily metered.

Whilst they remain NDM, the difference between their actual and estimate usage is contributing to UIG.

We estimate this to be around 0.4% of total national throughput.

Perceived timescales to fix

3 to 6 months



...Standard Volume to Energy Conversion Factors

Relationship to UIG

The value used to convert cubic meters of gas into energy measured in kilowatt hours (kWh).

Task Force Hypothesis

“All sites under 732,000kWh AQ have a single industry standard conversion factor specified in legislation.

Any difference between this standard value and a more accurate value would contribute to UIG.”

Discoveries to date

✓ The standard volume to energy conversion factor for all smaller NDM sites contributes to higher UIG in winter and reduces in summer.

Annualised impact is weather dependent and we estimate a 0.4% of total national throughput contribution to UIG.

Perceived timescales to fix

More than 1-year



...EUC Winter Annual Ratio Bands

Relationship to UIG

The Winter-Annual Ratio (WAR) of larger NDM sites should determine which End User Category (EUC) a site is assigned to.

If a site consumes gas differently to its EUC/WAR Band profile, this leads to UIG.

Task Force Hypothesis

“If a large proportion of eligible sites are not in a specific WAR Band EUC, their daily gas allocation will be less accurate, with the difference being UIG.”

Discoveries to date

✔ 28% of eligible sites do not have a WAR Band EUC as at 01/09/2018.

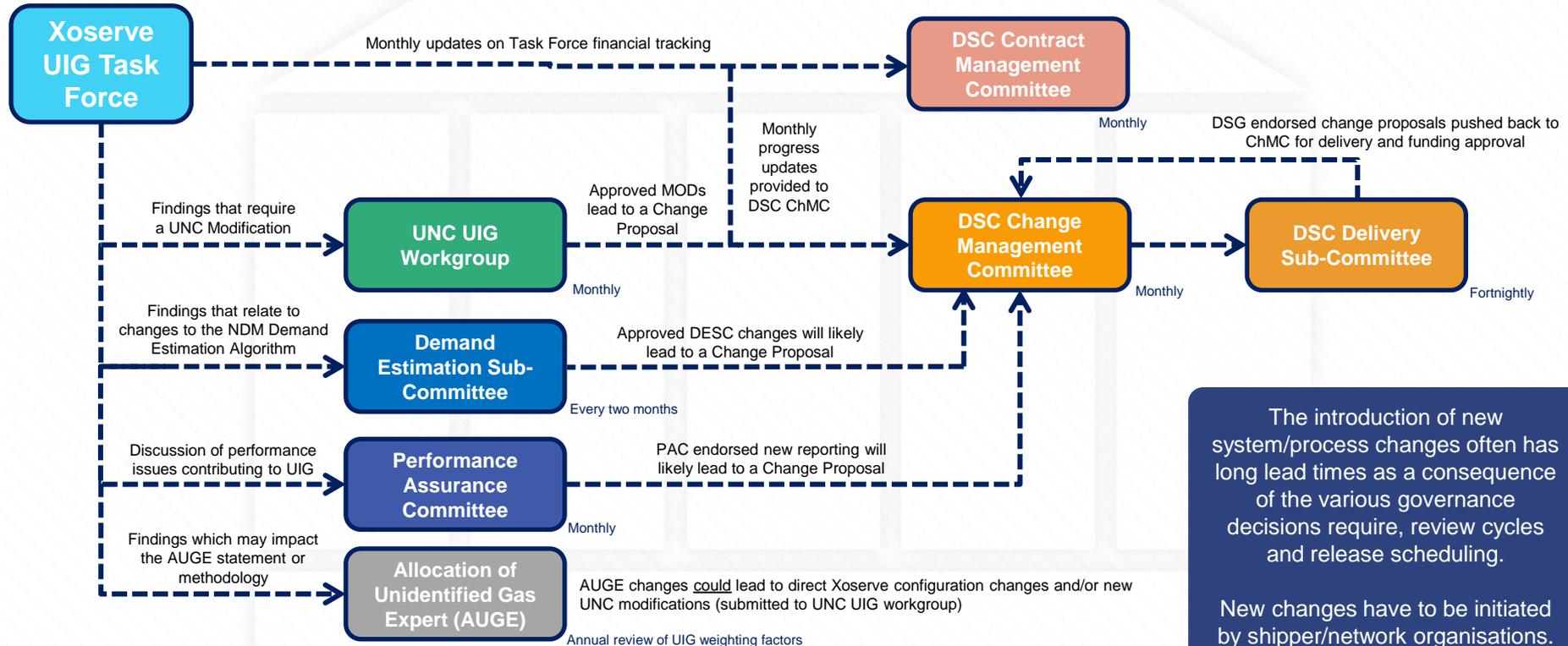
The Task Force estimates that this is contributing 0.15% of total national throughput to UIG, and as much as 0.7% on peak winter days.

Perceived timescales to fix

3 to 6 months



We operate within a complex and often time consuming industry change landscape...



The introduction of new system/process changes often has long lead times as a consequence of the various governance decisions require, review cycles and release scheduling.

New changes have to be initiated by shipper/network organisations.

Transparency and communication is key

Welcome to Xoserve - At the heart of the GB Gas Industry



About Us ▾

Our Services ▾

Our Systems ▾

Our Change Programme ▾

Careers ▾

Communications ▾

Contact Us ▾

Title	Last Updated	Format	UIG Task Force Sprint Two Update
UIG Task Force Sprint Four Update	8th November 2018	PDF	
UIG Task Force Sprint Three Update	25th October 2018	PDF	
UIG Task Force Sprint Two Update	12th October 2018	PDF	
UIG Task Force Sprint One Update	27th September 2018	PDF	
UIG Update from Ranjit Patel, CCO	5th September 2018	PDF	

Subscribe to Our
Distribution Lists Here

Problem with accessing
an Xoserve service?

Please submit a [Service Desk Request Form](#) or call 0845 600 0506 / +44 (0)121 623 2858 or email servicedesk@xoserve.com

Smell Gas?

Call the National Gas Emergency
Service 0800 111 999

The Xoserve UIG Task Force provides fortnightly updates and complete visibility of our progress, areas of focus and hard conclusions drawn – we make everything publicly available via Xoserve's company website

The logo for 'xserve' is centered within a light gray house-shaped outline. The 'x' is a dark blue, stylized character with a white diamond in the center. The 'serve' part is in a lighter blue, lowercase sans-serif font. The background features a subtle pattern of diagonal lines.

xserve