# NTS Shrinkage Incentive

Ex-Ante Baseline Values Statement For 2019/20

September 2018

nationalgrid

## **About This Document**

This document sets out baseline value targets that National Grid Gas plc ("National Grid") in its role as holder of the Gas Transporter Licence in respect of the NTS ("the Licence") is required to publish in accordance with the NTS Shrinkage Incentive Methodology Statement for Formula Year 2019/20.

#### Website

The most recent document can be found here:

https://www.nationalgridg as.com/about-us/systemoperator-incentives/ntsshrinkage This document will be updated and published five times for 2019/20:

- June 2018 (Initial Publication)
  - UAG & CVS baseline volumes for Q2 2019
  - CFU baseline volumes for all quarters in Formula Year 2019/20
- September 2018 (Update)
  - UAG & CVS baseline volumes for Q3 2019
- December 2018 (Update)
  - UAG & CVS baseline volumes for Q4 2019
- March 2019 (Update)
  - UAG & CVS baseline volumes for Q1 2020
- July 2020 (Update)
  - Energy Efficiency Variance CFU
  - Energy Efficiency Variance for CVS

A separate document will exist for each incentive year.

For further information please contact:

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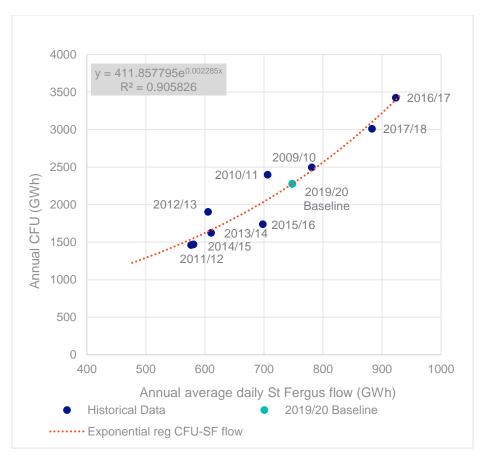
## NTS Shrinkage Incentive Ex-Ante Baseline Values Statement for Incentive Year 2019/20

## **Baseline Volumes – Compressor Fuel Usage (CFU)**

## Step 1

The relationship between flow at the St Fergus ASEP and total CFU, using data from 2009/10 to 2017/18 inclusive, is:

Total CFU (GWh) = 411.857795. x exp <sup>0.002285 \* Daily Average St Fergus Flow</sup>



## Step 2

The forecast flow at the St Fergus ASEP for 2019/20 is:

748 GWh/day

Inserting the forecast flow at St Fergus ASEP into the equation in Step 1 gives a total CFU baseline volume of:

**2,276** GWh

For more information on the methodology used to calculate the baselines please refer to the accompanying Methodology Statement found on the national grid website.

### Step 3

#### 2017/18 Quarterly CFU Volumes

	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Q1 Jan-Mar	Total
GWh (Gas Equivalent)	499	619	886	1,007	3,011
%	17%	21%	29%	33%	100%

Applying the above quarterly percentages to the total CFU baseline volume in Step 2 gives the following.

#### 2019/20 Quarterly CFU Volumes

	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Q1 Jan-Mar	Total
GWh (Gas Equivalent)	377	468	670	761	2,276

### Step 4

Applying the prevailing view of electric compressor replacement, along with historical information of the split between gas and electric compressor usage, gives the following.

#### 2019/20 Quarterly CFU Baseline Volumes Split Between Gas & Electricity

	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Q1 Jan-Mar	Total
Gas GWh	209	258	430	510	1,407
Elec GWh	56	70	80	84	290

Note: Electricity energy usage values in this table are one third of the electricity (gas equivalent) energy values

# Baseline Volumes – Unaccounted for Gas (UAG) & Calorific Value Shrinkage (CVS)

	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Q1 Jan-Mar	Total
GWh (Gas Equivalent)	226	150	*Dec 2018	*Mar 2019	*Mar 2019

#### 2019/20 Quarterly UAG & CVS Volumes

Note: \*Indicates when the UAG & CVS Baseline Volume targets will be published

## Energy Efficiency Volumes – CFU & CVS

The annual CFU and CVS energy efficiency adjustment volumes for 2019/20 will be published in July 2020, following calculation and audit.

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