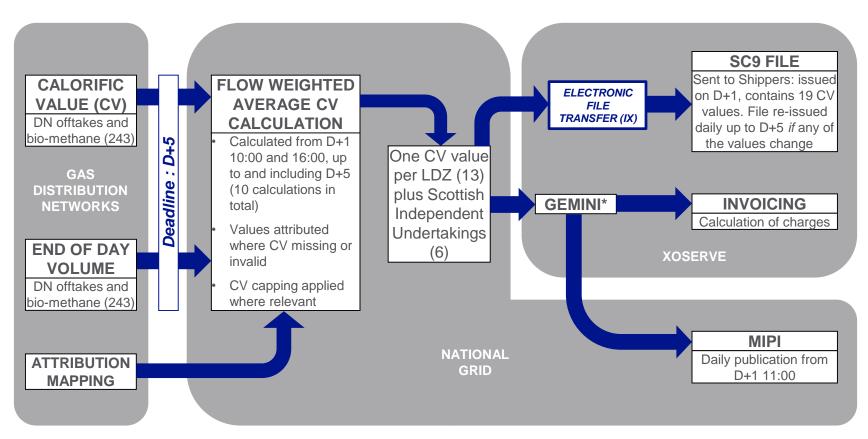


#### Introduction

- OFFTAKE ARRANGEMENTS DOCUMENT SECTION F "DETERMINATION OF CALORIFIC VALUE"
- 4 Arrangements for Determination of Daily CVs
  - 4.1 Determination of Daily CVs
    - 4.1.1 Subject to paragraphs 4.1.2 and 4.1.3, National Grid NTS agrees to determine daily CVs for each charging area within the area of the DNO's System on behalf of each DNO.

## **Daily CV Process**



**National Grid** 

<sup>\*</sup> GEMINI is a National Grid system operated and managed on its behalf by Xoserve.

# **FWACV Calculation**

Measurement Point	Volume (mcmd)	CV (Mj/m³)	Energy (Mj)					
А	5	39.6	198	> 5 * 39.6				
В	4	40.1	160.4	> 4 * 40.1				
С	2	38.6	77.2	> 2 * 38.6				
D	1	38.2	38.2	> 1 * 38.2				
	12		473.8					
= 473.8/12								
FWACV	39.5							
Capped CV (lowest source CV +	39.2							
Lower of above two values	39.2							

## **Manpower Requirement**

- National Grid currently operates the process 7 days a week, 365 days a year
- Up to two FTE staff
- Tasks include:
  - Ensuring completeness and validity of CV measurements
  - Contacting DNs to secure full datasets by D+5
  - Checking for, and reviewing instances of, capping
  - Processing 'Loss of Records' (LORs) if metering equipment fails
- Process could be operated on Business Days only
  - However, if manual intervention is necessary, this limits days to process data

	•					•		•				
	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed
Sat	D	+1	+2	+3	+4	+5						
Sun		D	+1	+2	+3	+4	+5					
Mon			D	+1	+2	+3	+4	+5				
Tue				D	+1	+2	+3	+4	+5			
Wed					D	+1	+2	+3	+4	+5		
Thu						D	+1	+2	+3	+4	+5	
Fri							D	+1	+2	+3	+4	+5

# **Attribution Usage**

- Analysis period: 12 months between January 2019 and January 2020
- Over 45,000 measurements across 13 LDZs and 4 DNs
- When assessed per LDZ and per DN over the analysis period, in terms of the percentage usage of attributed CV values:
  - the overall usage was 7.5%
  - the highest individual LDZ usage was 18.3%
  - the lowest individual LDZ usage was 0%
  - the highest individual DN usage was 14.4%
  - the lowest individual DN usage was 3.7%