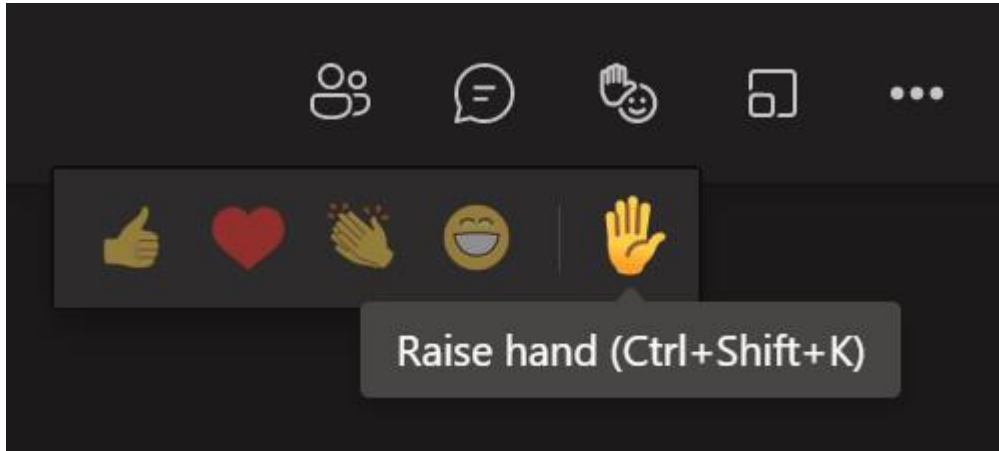


## P376 Digital Meeting Etiquette

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- Welcome to the P376 Industry Expert Group meeting 1 – we'll start shortly
- No video please to conserve bandwidth
- Please stay on mute unless you need to talk – use the Raise hand feature in the Menu bar in Microsoft Teams if you want to speak, or use the Meeting chat



- Talk – pause – talk
- Lots of us are working remotely – be mindful of background noise and connection speeds

# ELEXION

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## **P376 – Industry Expert Group 1**

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Utilising a Baselining Methodology to set  
Physical Notifications

1 October 2021

# Meeting Objectives and Agenda

Agenda Item	Lead
1. Introduction and Objectives	Chris Arnold (Chair)
2. P376 Summary	Chris Arnold
3. Baselineing Methodology	John Lucas (Design Authority)
4. BSCP15	Lorna Lewin (Design Authority)
5. BSCP602	Lorna Lewin
6. HHDA/DC Processes	John Lucas
7. Questions	Industry Expert Group
8. Next Steps	Chris Arnold
9. AOB	Industry Expert Group
10. Meeting Close	Chris Arnold

## Meeting Objectives:

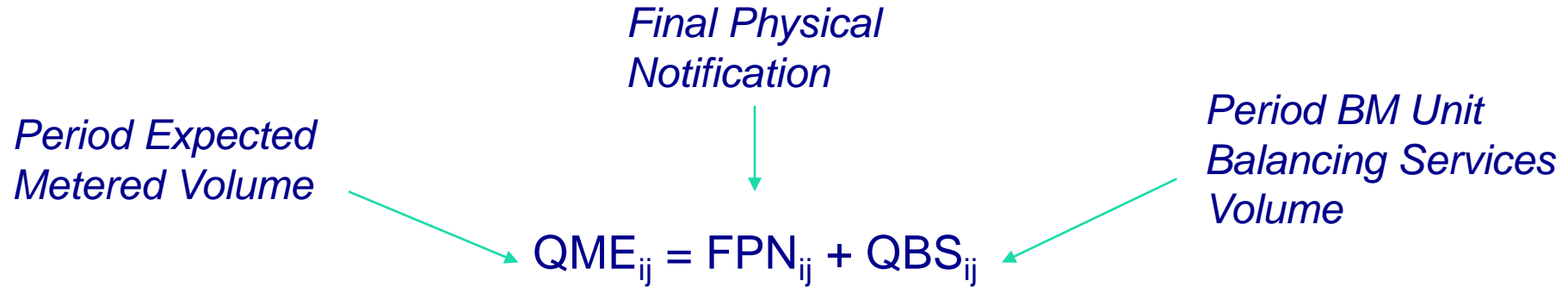
- Review the Baselineing Methodology Drafting
- Review the BSCP602 ‘SVA Metering System Register’ Drafting

# P376 SUMMARY

# RECAP OF P376

## What problem is P376 trying to solve?

When a BM Unit participates in the Balancing Mechanism, Settlement claws back payments (as “**Non-Delivery Charges**”) if the BM Unit Metered Volume doesn’t reach the expected level:



So for the Lead Party to get paid correctly, they must submit an FPN that accurately reflects what the Settlement Meters would have recorded (in the absence of any BOA being delivered)

## What problem is P376 trying to solve?

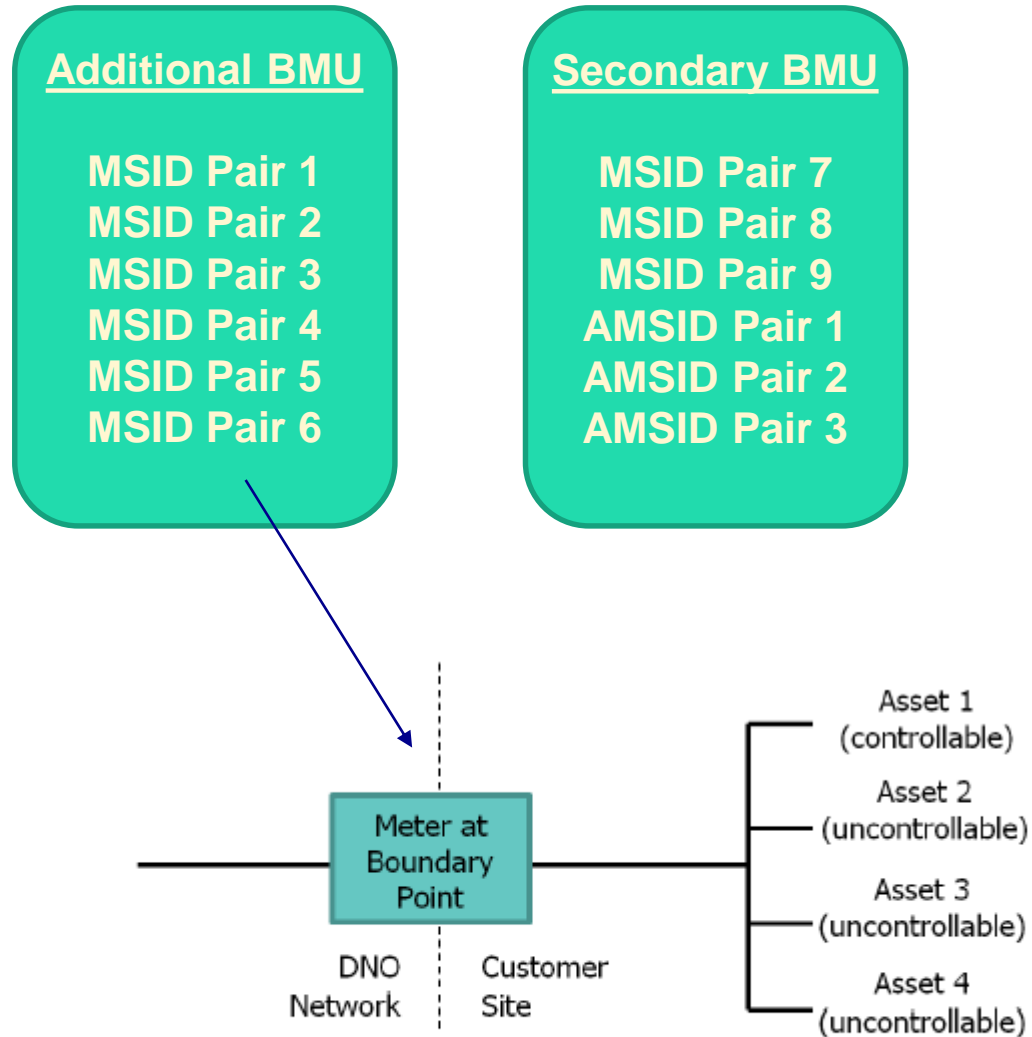


Figure 1: A site with controllable and uncontrollable assets

The P376 Proposer believes that it will be difficult to submit accurate FPNs for some sites as:

- As the Boundary Point Metering System is the responsibility of the Supplier an independent VLP may not have access to the metering data required to calculate an accurate FPN
- The Lead Party will not have access to recent Settlement metered data in the required timescales (Gate Closure)
- The import/export volume associated with an MSID Pair can be made up of multiple underlying assets (see figure 1). The assets that make up the import/export volume for an MSID Pair may not all be under the direct control of the party responsible for submitting an FPN and the party may not have any means of predicting the behaviour of the other assets behind the Boundary Point.

## Overview of P376 Solution

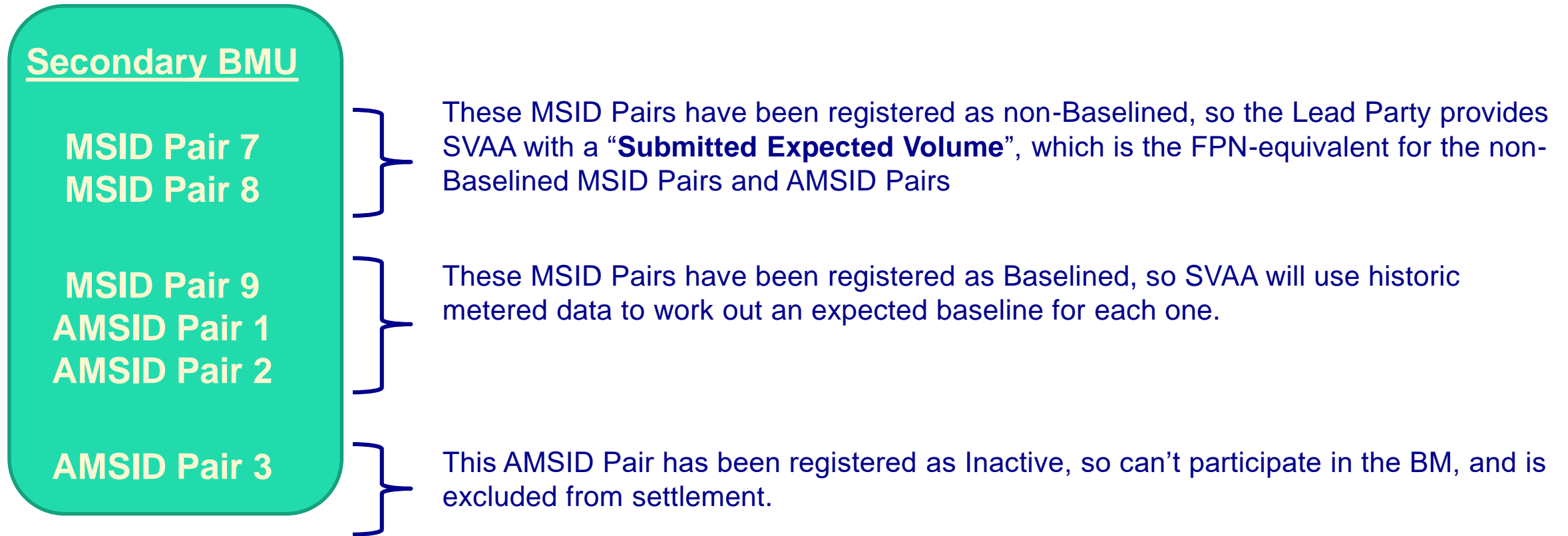
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Suppliers and VLPs can opt their Additional and Secondary BM Units into P376 (“**Baselined BM Unit**”)

They still submit an FPN to National Grid, but the FPN isn’t used to calculate Non-Delivery Charges. Instead Settlement systems calculate their own FPN-equivalent (the “**Settlement Expected Volume**”). The Lead Party specifies (when they allocate each MSID Pair or AMSID Pair to the Baselined BM Unit) how this will work:

1. **Baselined MSID Pairs** (or AMSID Pairs): SVAA will use historic metered data to calculate the baseline consumption for the MSID Pair
2. **Non-Baselined MSID Pairs** (or AMSID Pairs): The Lead Party works out the FPN-equivalent, and submits a total figure (per BMU and SP) for all the non-Baselined MSID Pairs
3. **Inactive MSID Pairs** (or AMSID Pairs): excluded from the BM Unit (for Settlement purposes). Secondary BM Units only

## Overview of P376 Solution – An Example



The Lead Party can change the status (Baselined or not, Inactive or not) of an MSID Pair (or AMSID Pair) in PMP e.g. a new connection might become Baselined when sufficient metered data was available

# P376 STATUS

# P376 Status

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- P376 was sent to Ofgem on **13 May 2021** with a recommendation for approval
- BSC Sections F, K, S, S-2, T, X-1 & X-2 have been approved and are not subject to further amendment
- The DMR and FMR required highlighted that amendments to BSCP602 and the Baselining Methodology documents would be required in the Implementation Phase.
- Ofgem approval was received on **6 August 2021**
- Target implementation date of:
  - **23 February 2023** as part of the standard February 2023 BSC Release.

# P376 Summary

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## Proposed Progression

Action	Date
Industry Expert Group – Meeting 1	1 October 2021
Industry Expert Group – Meeting 2	W/C 25 October 2021
Industry Consultation	10 November 2021 – 1 December 2021
Industry Expert Group – Meeting 3 (Provisional)	W/C 6 December 2021
Present to Panel	13 January 2022

BSCP15

BSCP15 expanded to include Registration of a Baselined BM Unit Registered with the Central Registration Agent (CRA)

Section 3 updated to include Registration of a Baselined BM Unit.

3.4 Registration of Additional Primary BM Unit (Supplier only)

3.21 Registration of Secondary BM Units

Section 4 updated to include a Baselined BM Unit flag in the Registration of Additional and Secondary BM Unit forms.

4.1 BSCP15/4.1 Registration of Primary BM Unit

4.14 BSCP15/4.14 Registration of Secondary BM Unit

BSCP602

Scope of BSCP602 expanded to include Submitted Expected Volumes and Event Days with the SVAA

Section 1 updated to include an introduction to Baselined BM Units, Submitted Expected Volumes and Event Days.

- 1.1.3      Baselined BM Units
- 1.1.4      Submitted Expected Volumes
- 1.1.5      Event Days

Section 2 updated to include Submitted Expected Volumes.

- 2.12      Non-Baselined MSID Pair / AMSID Pair Submitted Expected Volumes or Default Expected Volumes
- 2.13      Baselined MSID Pair / AMSID Pair Notification of Event Days

# New 'Submitted Expected Volumes' Data Flow (1 of 2)

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BSCP602 Section **2.12** introduces a new Submitted Expected Volumes data flow via the DCP Network from the Lead Party to SVAA.

## Submitted Expected Volumes data flow (P0xxx)

Effective From Settlement Date

Effective To Settlement Date

BM Unit Details

BM Unit Id

GSP Group Id

Submitted Expected Volume

Settlement Period Id

Submitted Expected Volume

# New 'Submitted Expected Volumes' Data Item (2 of 2)

Data Items included in P0xxx 'Submitted Expected Volumes'.

Id	type	flow version / range	L1	L2	L3	L4	L5	L6	L7	L8	L9	data type	Valid Set	item name/group description	Comments
P0xxx	F	001												Submitted Expected Volume	
???	R	1	G											Settlement Date	
	D			1								date		Effective From Settlement Date	
	D			O								date		Effective To Settlement Date	
???	R	1-*		G										GSP Group	
	D				1							text(2)		GSP Group Id	
???	R	1-*			G									BM Unit	Additional or Secondary BM Unit
	D					1						text(11)		BM Unit Id	
???	R	1-50				G								Submitted Expected Volume Data	
	D						1					integer(13)		Settlement Period Id	
	D						O					integer(13)		Submitted Expected Volume	

## New 'Event Days' data flow (1 of 2)

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BSCP602 Section **2.13** introduces a new Event Days data flow (P0aaa) which can be done though PMP by the Lead Party to SVAA.

### **Baselined BM Unit**

BM Unit Id

MSID Details

MSID Pair Indicator ('T', 'A', 'D')

Import MSID

Export MSID

MSID Pair Event Day (type 'T' or 'D' only)

Settlement Day

Event Day Reason

AMSID Pair Details (type 'A' only)

Import AMSID

Export AMSID

AMSID Pair Event Day

Settlement Day

Event Day Reason

- Within the new Submitted Expected Volume data flow, Where '**Effective To**' date is left blank the volume will be the Default Submitted Expected Volumes. Should there be a separate file for the Default Submitted Volumes?
- Is the GSP Group data item required?
- Should there be a file acknowledgement and a rejection file (where applicable) sent from SVAA to the Lead Party for each Submitted/Default Submitted Expected Volumes?

# Registering MSID Pairs and AMSID Pairs as Baselined

Suppliers and VLPs need to be able to specify which MSID Pairs and AMSID Pairs in a Baselined BM Unit are Baselined:

BR1.3	<p>If a Party requires the expected volumes for a MSID Pair <b>or AMSID Pair</b> to be created via a Baseline Methodology then it must register the BM Unit as a Baselined BM Unit first and then register each MSID Pair <b>or AMSID Pair</b> for Baselining. This will require a new registration process under the existing SVAA Metering System Balancing Service Register (BSCP602).</p> <p>The SVAA Balancing Service Register is updated to reflect that the MSID Pair <b>or AMSID Pair</b> has been registered for baselining.</p>
BR1.7	<p>The solution must enable a Party to register more than one MSID Pair <b>or AMSID Pair</b> for the baselining solution at a time. In future aggregators may wish to register multiple MSID Pairs <b>or AMSID Pairs</b> often of very small sizes. They would not want to have to input each one separately.</p>

*Proposed changes in red are to align Business Requirements with legal text.*

Click to type document status e.g. Confidential

# Choosing a Baseline Methodology

Suppliers and VLPs need to be able to specify the Baselining Methodology that applies (although currently is's proposed that there will only be one) :

BR6.1	A Party must be able to select a <b>Baselining Methodology</b> from an approved list of <b>Baselining Methodologies</b> at the time of registering the site for baselining. This will be per MSID Pair <b>or AMSID Pair</b> .
BR6.2	A Party must be able to change the selected <b>Baselining Methodology</b> for a site under the same timescales as for registering for using the baselining solution in BR1

# Registering MSID Pairs and AMSID Pairs as Inactive

VLPs need to be able to specify which MSID Pairs and AMSID Pairs in a Baselined BM Unit are Inactive:

BR4.1	The Virtual Lead Party can register with SVAA for a MSID Pair <b>or AMSID Pair</b> to be made inactive using BSCP602 detailing a start and end date. The MSID Pair <b>or AMSID Pair</b> does not need to be new MSID Pair <b>or AMSID Pair</b> . For the avoidance of doubt any MSID Pair or AMSID Pair within a <b>Baselined</b> SBMU can be made inactive. It is not restricted to Baselined MSID Pairs
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***As flagged up in the Ofgem decision letter, BR4.1 and the P376 legal text wrongly extended this to non-Baselined BM Units:***

*However, we find that the proposed legal text in Section S of the BSC erroneously places requirements on participants with metering systems which are not engaged in the baselining methodology insomuch as they would need to indicate the inactive status of their asset (it is also not clear what such a status would confer on these metering systems and how they would subsequently be treated). 13 We have discussed this with Elexon who have confirmed that the Proposer did not intend for the text to place this requirement on all metering systems – and that it only arose because of a simple drafting error. Hence we expect that the legal text will be updated through a modification to ensure that the setting of inactive status only applies to metering systems within baselined balancing mechanism units, as per the intention set out in the FMR.*

## New data items for MSID Pairs and AMSID Pairs in Baselined BM Units

In summary, there are three new data items for MSID Pairs and AMSID Pairs allocated to Baselined BM Units:

- Baselining Flag
- Baselining Methodology (although no choice proposed initially)
- Inactive Flag (Secondary BM Units only)

These data items control how Settlement construct the Delivered Volumes and FPN-equivalent for the MSID Pair or AMSID Pair:

MSID Pair	Delivered Volume (for Secondary BMUs)	Contribution to Settlement Expected Volume
Baselining Flag = True Inactive Flag = False	Calculated by SVAA (new process)	Calculated by SVAA (new process)
Baselining Flag = False Inactive Flag = False	Submitted by VLP or AMVLP as currently (P0282)	Submitted to SVAA by Lead Party (new process)
Inactive Flag = True	n/a	n/a

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## Should we use a new or existing process for notifying this data?

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We could include these three new data items in the current process for allocating MSID Pairs or AMSID Pairs to BM Units:

- Process is BSCP602 2.1 (for MSID Pairs) and BSCP602 2.1A (for AMSID Pairs)
- New data items added to P0278 data flow (for MSID Pairs) and P0306 (for AMSID Pairs)
- Data items are entered through the Self-Service Gateway (typed into a screen, or uploaded as a CSV)

Alternatively we could separate out this Baselining-specific functionality:

- New processes in BSCP602
- New data flows

# HHDA/HHDC PROCESS

The current process for SVAA to request metered data from HHDA's (BSCP503 3.7) can be summarised as follows:

- SVAA sends D0354 to HHDA
- HHDA confirms (D0355) or rejects (D0356)
- Once confirmed, data is reported to SVAA from each Volume Allocation Run (in the D0385)

P376 introduces a new requirement for an initial 60 days of historic data:

BR3.1	When an MSID Pair (excluding AMSID Pairs) is registered to have an MSID Baseline Value, SVAA will instruct the HHDA to send a maximum of 60 days' worth of historic data (or as much as is available if less) in one file.
BR3.2	Where demand data does not exist, the HHDA will inform SVAA that this is the case.

So SVAA needs to be able to request 60 days of historic data:

- Initially (when first sending the D0385 to the HHDA)
- Subsequently (when a Metering System is enrolled for Baselineing)

How should SVAA tell the HHDA that historic data is now required?

- New data item on D0354?
- Contract Reference (J0048) on D0354?
- New data flow?

How should the HHDA provide the required data? Is a new data flow required?

How should the HHDA tell SVAA if no data is available?

## HHDC Process (for Asset Meters)

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The P375 process for Asset Meters is that:

- AMVLP appoints the HHDC to the AMSID
- HHDC immediately starts sending metered data to SVAA (no separate instruction required)

Therefore the P376 business requirements assume that no request for historic data is needed (because any metered data held for that AMSID will already be available to SVAA).

# BASELINING METHODOLOGY

The P376 solution envisages that the detail of the baselining algorithm will be contained in a “Baselining Methodology Document” (under the control of the BSC Panel)

A draft methodology document was developed during the Assessment Procedure (and included with the Final Modification Report)

Initially the Baselining Methodology Document will contain a single baselining methodology, but the Panel could agree more in future (e.g. different methodologies for different generation technologies)

The proposed methodology uses up to 60 days of historical data

The Workgroup modelled different techniques used internationally, and propose that:

- For Working Days, use average of ten most recent Eligible Days (i.e. excluding Event Days)
- For non-Working Days, use middle two of four most recent Eligible Days

QUESTIONS?

# NEXT STEPS

# Next Steps

- Amend documents as per discussions
- Circulate for review
- Reconvene at the end of October

Action	Date
Industry Expert Group – Meeting 1	1 October 2021
Industry Expert Group – Meeting 2	W/C 25 October 2021
Industry Consultation	10 November 2021 – 1 December 2021
Industry Expert Group – Meeting 3 (Provisional)	W/C 6 December 2021
Present to Panel	13 January 2022

AOB

# ELEXON

## THANK YOU

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**Chris Arnold**

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1 October 2021