

Issue 91 'Registration and Settlement of Smart Export Guarantee (SEG) sites'



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About This Document

This document is the Issue 91 Group's Report to the BSC Panel. Elexon will table this report at the Panel's meeting on 9 December 2021. It provides a summary of the Issue Group's discussions and recommendations.

There are two parts to this document:

- This is the main document. It provides details of the Issue Group's discussions and proposed solutions to the highlighted issue and contains details of the Workgroup's membership.
- Attachment A contains the Issue 91 proposal form.

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1 Summary

Issue 91 was raised by EDF Energy on 5 November 2020 to examine the relevant processes in [Balancing and Settlement Code Procedure \(BSCP\) 504 'Non Half Hourly Data Collection for Supplier Volume Allocation \(SVA\) Metering Systems Registered in Supplier Meter Registration Service \(SMRS\)'](#) and [BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'](#) to ensure the efficient management and operation of Export sites for participation in the Smart Export Guarantee (SEG) scheme.

What is the Issue?

The [Smart Export Guarantee \(SEG\)](#) is an obligation set by the Department for Business, Energy and Industrial Strategy (BEIS) for licensed electricity Suppliers to offer a tariff to small-scale low-carbon Generators and make payments directly for exported electricity. The SEG came into force on 1 January 2020 and introduced the need to register and settle Export Meter Point Administration Numbers (MPANs), in accordance with the Balancing and Settlement Code (BSC) arrangements, for generators with capacity up to 5 Megawatts (MW). For these smaller scale Export sites there is no established market and therefore the arrangements for Non Half Hourly (NHH) sites introduced by [BSC Modification P081 'Removal of the Requirement for Half Hourly Metering on Third Party Generators at Domestic Premises'](#) have not been fully tested.

There are a number of scenarios arising which question whether these existing processes established for the import market are fit for purpose for the export market and for the use of shared smart Meters. These scenarios are explored in further detail in the Background and Issue Group's Discussions sections of this Issue Report.

Conclusions

The Issue Group agreed:

- Amendments to [BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'](#) should be made to note how the Export MPAN gets notified to the NHHMOA. As SVA Metering activities moved from the BSC to the Retail Energy Code (REC) from 1 September 2021, the amendments will need to be progressed through the REC change process;
- A change to [Data Transfer Catalogue \(DTC\) Data Flow D0155 'Notification of Meter Operator or Data Collector Appointment and Terms'](#) is required to notify the Non Half Hourly Meter Operator (NHHMOA) that they are being appointed to an Export MPAN;
- No amendments are required to [BSCP504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'](#); and
- Relevant BSC Guidance Notes, [Microgeneration and the Balancing and Settlement Code](#) and [Metering Demand Sites with generating equipment installed \(Import Export metering systems\)](#) should be reviewed and updated to ensure that they up-to-date and reflect the change to processes.

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2 Background

The arrangements for NHH Third Party Generators at Domestic Premises are described in [BSC Procedure \(BSCP\) 504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'](#) and [BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'](#). BSCP514 moved to the REC on 1 September 2021 and obligations on SVA MOAs, or Metering Equipment Managers (MEMs) as they are known in the REC are contained within the Metering Operations Schedule.

[BSCP504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'](#) defines the processes that the Non Half Hourly Data Collector (NHHDC) shall use to carry out the collection and processing of Metered Data for NHH SVA Metering Systems (MS).

[BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'](#) defined the processes that both the Half Hourly (HH) and NHHMOA shall use to carry out the work for meter operations. This includes, appointment changes, market data activities, connections, disconnections, reconfiguration or changes and where required proving (of HH Metering Systems) for all SVA MS registered in SMRS.

[P081 'Removal of the Requirement for Half Hourly Metering on Third Party Generators at Domestic Premises'](#) was raised by TXU UK Limited on 3 May 2002 and was implemented on 28 September 2003. The Modification removed the obligation that was contained in [BSC Section L 'Metering' 2.2.1\(c\)](#) for HH capable metering to be installed at all premises with Third Party Generators if these are located at Domestic premises.

SVA Metering activities transferring from the BSC to the REC

Ofgem announced its [Decision](#) on 30 April 2021 that SVA Metering activities transfer from the BSC to the Retail Energy Code (REC) from 1 September 2021.

This will be explained in more detail in section 3 of this document.

The key point for Issue 91 is that SVA Metering arrangements are transferring to the REC and therefore BSCP514 will no longer exist in the BSC. Any impacts on BSCP514 processes identified by the Workgroup would therefore need to be incorporated into the REC Metering Operations Schedule.

What is the Issue and the Proposer's justification?

- The introduction of the SEG has raised a number of issues with the NHH Export process, across New Connections, Change of Supply, change to Metering System, as there is no defined route for the Export MPAN to be notified to NHHMOA
- Currently there are a small number of meters in the SEG market but with a disproportionate need for resource to manage as a result
- There is an increased interest in Electric Vehicles (EV), battery storage, heat pumps and small scale renewable at domestic level which means a growing market. An increase in numbers has the potential to be an aggregate risk to Settlement as volume increases. At MPAN level, risk is nominal, with circa 1 million FiT customers plus new EVs the risk is significantly increased

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- The current issues have the potential to prevent accurate Settlement for Suppliers increasing cost to serve, due to the delays in registering the SEG site and data subsequently entering Settlement
- The current issues also have the potential to prevent effective switching for Export generators giving a poor customer journey. Delays in registration appointments may hinder switching timescales. If moving to an enhanced tariff, this may create delays. This is unlikely to impact customer's payments in the long term, as appointment issues likely to be resolved before the Reconciliation Final (RF) Settlement Run, but has the potential to impact first payment if contracted to receive monthly payments if there are any delays in the registration process
- There is a longer term need for a process to enable transition to Market-wide Half Hourly Settlement (MHHS). Export registration is mandatory in MHHS

The Proposer's view is that the BSC arrangements should help to ensure that the SEG scheme is workable and therefore the issue with MOA appointment for SEG sites needs to be investigated. This market is only going to increase following the introduction of the SEG, the continued roll out of smart Meters capable of recording Export, and as we move toward mandatory Settlement of HH data for all consumers.

For these smaller scale Export sites there is currently a small, establishing market and therefore the arrangements for NHH sites introduced by BSC Modification [P081 'Removal of the Requirement for Half Hourly Metering on Third Party Generators at Domestic Premises'](#) have not been utilised.

There are a number of scenarios arising which the Proposer believes question whether these existing processes established for the Import market are fit for purpose for the Export market and for the use of shared smart Meters.

It is also not clear how a number of the processes (e.g. New Connections, Change of Supplier, change to Metering System) set out in the BSCPs would work in practice where an Export MPAN is created as a result of the SEG.

For example, the New Connections process would usually rely on the Meter Operator Agent (MOA) installing a Meter, but in the case of the SEG, the Export MPAN will be 'added' to a smart Meter that has already been installed. The existence of the Export MPAN and the associated Meter will be notified by the Supplier to the MOA, which is not currently a consistent, industry defined process.

It is not evident that the processes set out in the BSC, such as the New Connections and Change of Supplier (CoS) processes, are fit for purpose to support SEG MPANs. This creates a risk that Export energy for these MPANs will be settled incorrectly, or not at all, as the Export MPANs may not be registered for inclusion in Settlement.

A further example under the BSC is where Suppliers must appoint the same MOA for both Import and Export MPANs where there is shared Metering Equipment (paragraph 4.1.5 in [BSC Section J 'Party Agents and Qualification Under the Code'](#)). This was introduced to avoid the complication and potential duplication that could arise from having separate MOAs serving one shared Import/Export Meter. However, these requirements were introduced when there was little or no domestic Export market, and before the installation of smart Meters. Where the Supplier is not the Import Supplier and as a result is unlikely to have an ongoing commercial contract with the existing Import MOA, appointment of the MOA is proving time consuming and in some cases is not happening for a number of months. This is a risk to Settlement as without an appointed MOA, data relating to Export

energy cannot be processed into the Settlement process. There may also be a delay to Suppliers making payments to SEG customers or having to make payments based on customer readings or estimated data before the Export data has entered Settlement. The Proposer has encountered issues with MOAs rejecting appointments for Export Meters.

Potential Outcomes

When the Proposer raised Issue 91, they identified three potential outcomes:

- Examining of the relevant procedures within [BSCP504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'](#) and [BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'](#) with a view to introducing changes that are more relevant to the efficient running of the Export market.
- Elexon to provide guidance to Suppliers and Supplier Agents to clarify the requirements for appointing and registering Export Meters, below the capacity of 30kW, within the BSC.
- Consideration of BSC Modifications to enable the efficient running of the Export market, e.g. to require MOAs to accept a Supplier's request for appointment of an Export Meter for a premise or customer where they already serve that premise or customer as the Import MOA, within an agreed number of days.

What is the SEG?

Background

The SEG is an obligation set by BEIS for some licensed electricity Suppliers (SEG Licensees) to pay small-scale generators (SEG Generators) for low-carbon electricity which they Export back to the National Grid, providing certain criteria, which are explained below, are met. The SEG replaces the government's [Feed-in Tariff \(FIT\)](#) scheme which closed to new applicants from 1 April 2019. The SEG came into force on 1 January 2020 and introduced the need to register and settle Export MPANs, in accordance with the BSC arrangements, for generators with capacity up to 5MW ([Standard Licence Condition 57 Schedule A 2.1.3\(b\)](#)).

Who can be a SEG Generator?

Anyone with one of the following technology types could benefit from the SEG (provided they meet the rest of the eligibility criteria) up to a capacity of 5MW, or up to 50kW for micro-combined heat and power (CHP):

- Solar photovoltaic (solar PV)
- Wind
- Micro-CHP
- Hydro
- Anaerobic

These installations must be located in Great Britain. The SEG Generator needs to demonstrate that the installation and/or installer are suitably certified (the installation

must be signed up to the Microgeneration Certification Scheme (MCS) or an equivalent scheme) and that the site has an Export meter and an Export MPAN.

How does the SEG work?

SEG Licensees determine the rate which they will pay SEG Generators, the contract length and other terms. SEG payments are calculated by using Export meter readings. SEG Generators are paid by their chosen SEG Licensee for the electricity which they Export back to the National Grid. For a SEG Generator, the SEG Licensee does not need to be the same company as their current Supplier.

[The current list of SEG Licensees](#) for the second SEG year (1 April 2021 to 31 March 2022) is shown below. Please note that this is the current list as at the time of writing this Issue Report, noting that a number of Suppliers have recently exited the market.

Mandatory SEG Licensees

Suppliers who had at least 150,000 domestic electricity customers as at 31 December of the immediately preceding year:

- British Gas (BSC Party ID: BRITGAS)
- Bulb (BSC Party ID: REGENT)
- E (BSC Party ID: LORM)
- EDF Energy (BSC Party ID: LENCO)
- E.ON (BSC Party ID: POWERGEN)
- Octopus Energy (BSC Party ID: MERCURY)
- OVO Energy (BSC Party ID: OVOE)
- Scottish Power (BSC Party ID: SPSUP01)
- Shell Energy (BSC Party ID: FRST01)
- So Energy (BSC Party ID: GOLD)
- The Utility Warehouse (BSC Party ID: BAENERGY)
- Utilita (BSC Party ID: UTILITA)

Voluntary SEG Licensees

Suppliers who had fewer than 150,000 domestic electricity customers as at 31 December of the immediately preceding year, but have chosen to opt-in to the SEG:

- F&S Energy (BSC Party ID: FSE0001)
- Limejump Energy (BSC Party ID: ANGEL)

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3 Issue Group's Discussions

Energy UK convened three meetings with its members in 2020 to discuss issues with Smart Export Guarantee (SEG) sites. There was log of issues created by Energy UK (SEG Technical Issues Log) which contained details of issues that were identified during these meetings and the relevant Code(s) impacted by the issue.

The BSC issues contained in the SEG Technical Issues Log formed the basis of the discussions in the first Workgroup meeting. It was noted that not all Workgroup Members were from organisations who are members of Energy UK, so all Workgroup Members were invited to consider the list as a starting point and to add more if appropriate.

The BSC issues are summarised in the table below and then explained in more detail afterwards:

BSC issues identified in Energy UK's SEG Technical Issues Log		
Area	Issue	Details
Export Change of Supplier process	CoS Reads process	Process should exist for Smart Metering Equipment Technical Specifications (SMETS) CoS process for Exports
Export Change of Supplier process	Settled NHH or Elective HH?	Meter transfers between Supplier that settles elective HH to Supplier that settles as NHH
Export Change of Supplier process	How will Export Supplier be notified of Import CoS?	Export Supplier needs to be notified in case of change of MOA
Metering	Will MOA inform Export Supplier of meter exchange, and how?	MOA should inform both Import and Export Supplier of a meter exchange

Export Change of Supplier (CoS) process

The CoS read process

BSCP504 includes a separate process for generating CoS readings where the meter going through CoS is enrolled in the DCC. This process will not work for Export meters as they have different registers (and is not required as there is a single Export register).

Export CoS will always require a [D0086 'Notification of Change of Supplier Readings'](#) start/end gain/loss reading for both Import and Export, This process currently exists for NHH Import/Export AMR meters and should exist for SMETS CoS process for Exports. The NHHDC will always need to process the D0086. The only time CoS gain/loss reading is not required is in the HH Settlement market.

It was noted that the following Elexon BSC Guidance Notes should be reviewed and would need to be updated to reflect the change to the process that the Export MPAN will be notified to NHHMOA. Issue Group Members volunteered to help Elexon review these BSC Guidance Notes:

- [Microgeneration and the Balancing and Settlement Code](#)

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- [Metering Demand Sites with generating equipment installed \(Import Export metering systems\)](#)

The Workgroup noted that SEG sites do not have to be HH Settled.

Elective HH

There is a known issue with Meters transferring between Suppliers that settle them on an elective HH basis and those that settle them on an NHH basis. These same problems could affect SEG customers.

Transfers between Suppliers for SMETS 1 and 2 Export would require the top line for SMETS Export to be Profile Class (PC) 8 - Non-Domestic Maximum Demand Customers with a Peak Load Factor over 40%, in order to match the SSC (Standard Settlement Configuration) for the Export side of the meter.

The Workgroup noted that not all Suppliers support elective HH and therefore there could be issues if an elective HH site moved to a Supplier which settled them NHH. Elexon explained that the majority of elective HH is Import, however, it could be an issue for SEG sites too.

The elective HH Settlement (HHS) smart Meter processes were implemented in 2017 to complement existing arrangements. The elective HHS approach allows Suppliers to collect HH data from smart Meters (with customer consent) and pass it into Settlement via existing Half Hourly Agents.

Elective HHS has enabled Suppliers who wish to settle their customers MPANs HH to do so cost effectively, which some Suppliers have now taken up. However, there have been a number of issues with the elective processes particularly where elective customers change to Suppliers who do not support elective CoMC process.

Ofgem asked the Elexon-led [Design Working Group](#) (DWG) to consider if full implementation of the Market-wide Half Hourly Settlement (MHHS) Target Operating Model (TOM) is dependent on the timescales needed to put any target architecture in place and, if so, whether greater use could be made of the elective HHS process as an interim step in obtaining the benefits of HHS.

The DWG noted that the target architecture is still to be agreed and therefore associated timescales are unknown. However, it discussed the idea and noted the following potential issues with this approach:

- The existing elective process was designed to cater for a limited number of customers wishing to avail of certain Time of Use (ToU) tariffs, and who have Suppliers offering these tariffs. It was designed to complement the existing NHH arrangements - not to replace them;
- The use of the existing elective processes is a commercial choice for the Supplier. The DWG's TOM transition approach does not create any barriers to using the elective process;
- The existing elective process is intended to allow for a Change of Measurement Class from HH back to NHH (e.g. where the customer subsequently wishes to change tariff or Supplier). If the elective process was used for mass migration of MPANs to HHS, this could not prevent MPANs 'flipping' between HH and NHH

arrangements on a Change of Supplier. At scale this would be difficult for parties to manage and this issue could be exacerbated under Faster Switching;

- The DWG has 'designed out' the above issues to ensure that HHS can be maintained irrespective of the tariff, customer's opt-in/out preference or their chosen Supplier; and
- While improvements to the elective process could be considered, some of the impacts and costs incurred in using this as a 'stepping stone' to the TOM would be additional to the TOM implementation costs – and could therefore potentially divert effort from achieving the earliest implementation of the optimal (TOM) solution.

Elective HHS MPANs with smart Meters will eventually all be settled using the Smart and Non-smart Market Segment using the Smart Data Services (SDS). Smart Meters currently serviced by Smart Meter System Operators (SMSOs) will eventually be serviced by the DCC. Data from these Meters would then be accessed directly by the Smart Data Service.

How will an Export Supplier be notified of an Import CoS?

It is not so much the CoS event itself that the Export Supplier would be interested in, but a potential change of MOA that would result from the CoS as they are obliged to appoint the same MOA as the Import Supplier. This could also arise just from the Import Supplier just changing their MOA.

The Workgroup discussed the current process to identify the MOA appointed to the Import MPAN, so that the same MOA can be appointed for the Export MPAN. You would need to access the [Electricity Central Online Enquiry Service \(ECOES\)](#). However, if there is an Import Supplier appoints a new MOA or there is a CoS, there is currently no way of the Export Supplier knowing this as there is no trigger for this.

The Proposer explained that it's currently challenging to engage with the MOA when trying to appoint them to the Export MPAN and the Export Supplier is either told by the MOA that they don't support Export or to go and speak to the Import Supplier.

The Workgroup discussed that this is not only a CoS issue, as the MOA for the Import MPAN could change for a number of reasons and the Export Supplier should therefore be notified.

Metering

Will a MOA inform an Export Supplier of a meter exchange? If so, how?

If a MOA has changed a meter, there is standard process to inform the Supplier that appointed the MOA. The MOA should send [D0149 'Notification of Mapping Details'/D0150 'Non Half-hourly Meter Technical Details'](#) to each Supplier appointed for the meter asset.

Summary

The Workgroup confirmed that these items taken from Energy UK's SEG Technical Issues Log were accurate descriptions of the issues, and did not identify any additional issues which should be included for consideration in the scope of Issue 91.



What is ECOES?

The Electricity Enquiry Service (EES) is also known as the Electricity Central Online Enquiry Service (ECOES). The EES is a service funded by electricity suppliers and distributors and governed under the Retail Energy Code (REC). EES was designed to assist suppliers in the customer switching process by allowing the triangulation of data; it is also used to provide benefit to REC Parties and non-REC Parties (such as Price Comparison Websites (PCWs)).

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Reviewing BSCP504 and BSCP514

The Workgroup agreed with the approach to walkthrough relevant sections of BSCP504 and BSCP514 during Workgroup meetings, to identify any potential changes required for the management and operation of SEG sites, covering NHHDC and SVA MOA issues respectively.

It was noted that the current number of NHH Export sites is quite small (approximately 5-6,000) and that the uptake of the SEG was low but set to increase. The Proposer explained that his organisation is currently spending significant time in trying to manage a small number of SEG sites and that these issues can prevent accurate data entering Settlement.

Meter Operator Agent issues

BSCP514 walkthrough

The following relevant scenarios were identified for the walkthrough of BSCP514 by the Workgroup:

BSCP514 walkthrough	
BSCP514 section	Description
6.2.2	New Connection
6.2.4	Concurrent change of Supplier and NHHMOA
6.2.5	Change of Supplier (No Change to Metering System or Change of NHHMOA)
6.3.4	Reconfigure or Replace Metering System (No Change of Measurement Class)

The Workgroup discussions included a number of areas outside the scope of the BSC that would need to be addressed. This included the issue of contracts between Suppliers and Meter Operator Agents which would need to be considered outside of the Workgroup (as the BSC is not concerned with commercial arrangements), but Elexon's BSC Guidance Note(s) could refer to the arrangements.

The Workgroup discussed how to notify the NHHMOA that they are being appointed to an Export MPAN. A number of alternative options were discussed and considered (listed in numerical order):

- E-mail (in body text or send a Spreadsheet if multiple Export MPANs to be notified)
- [D0001 'Request Metering System Investigation'](#)
- [D0005 'Instruction on Action'](#)
- [D0142 'Request for Installation or Change to a Metering System Functionality or the Removal of All Meters'](#)
- [D0155 'Notification of Meter Operator or Data Collector Appointment and Terms'](#)
- A new Data Flow/Market Message

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Using the D0155 to notify the NHHMOA that they are being appointed to an Export MPAN

The [D0155 'Notification of Meter Operator or Data Collector Appointment and Terms'](#) Data Flow was identified as the preferred method. It was noted that a Data Transfer Catalogue (DTC) Change Proposal (CP) would need to be raised by an Master Registration Agreement (MRA) Party. This change will need to be managed in the REC as Retail Code Consolidation (RCC) effected the closedown of the MRA.

The D0155 Data Flow is a notification of a new or changed appointment to a Metering System and of the contractual terms to be applied. The data flow is sent from Supplier to HHDC, MOA and NHHDC.

The key question that the Workgroup were asked to consider by the Proposer was whether the DC would need to know the Import MPAN associated with the Export MPAN, and a question arose as to whether it would be possible to share this information.

The Import MPAN associated with the Export MPAN does need to be known by the MOA as there is a BSC obligation to appoint the same Agent for both Import and Export

A change to the D0155 Data Flow will be required, with the exact requirements to be confirmed, to include the associated Import MPAN when notifying the NHHMOA that they are being appointed to an Export MPAN, as the D0155 Data Flow was identified as the most appropriate method of providing this information. If it is decided that this should not be visible to DCs, then it could be included in the MOA part of the Data Flow. However, a Workgroup Member noted that this change could still impact DCs as if the version number of the Data Flow changes they may still be required to update their systems. A REC change would need to be raised. It was therefore suggested to include the additional item in one of the groups (in record 315 MPAN Cores if Import MPAN was shared with both MOA and DC or in record 317 MOP Effective Date if Import MPAN is only shared with DC) in the flow, as an optional item. If 315 was used, this would be consistent for MOAs/DCs and could make system designs simpler (less cost), even if only used by MOAs. If there are multiple meters the primary one should be used. The solution should not be constrained to Smart/Export only.

SVA Metering activities transferring from the BSC to the REC

Ofgem announced its [Decision](#) on 30 April 2021 that SVA Metering activities transfer from the BSC to the Retail Energy Code (REC) from 1 September 2021.

The key point for Issue 91 is that SVA Metering arrangements are transferring to the REC and therefore BSCP514 will no longer exist in the BSC. Any impacts on BSCP514 processes identified by the Workgroup would therefore need to be incorporated into the REC Metering Operations Schedule.

Ofgem's decision on Retail Energy Code v2.0 and Retail Code Consolidation (RCC) Consultation

Ofgem issued a consultation on [Retail Energy Code v2.0 and Retail Code Consolidation](#) on 15 December 2020 with responses invited by 23 February 2021. The consultation was on the proposed merging of content from the Master Registration Agreement (MRA), the Supply Point Administration Agreement (SPAA), and the Balancing and Settlement Code (BSC) content regarding Meter Operator Agents into the REC.

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This consultation contained details of Ofgem’s ‘minded to’ position to transfer SVA metering activities from the BSC to REC.

In the consultation, Ofgem proposed three options for transferring existing metering provisions from the BSC to the REC:

- Option 1: Functional split – with operational processes associated with meter asset data updates and agent appointment transferring to the REC and meter technical Codes of Practice (CoP) and associated controls retained in the BSC
- Option 2: Meter type split – with provisions associated with advanced, complex and Central Volume Allocation (CVA) metering retained in the BSC, and provisions associated with smart / traditional metering transferred to the REC
- Option 3 Market split – with all provisions associated with metering systems registered in Meter Point Administration Service (MPAS)/SMRS (i.e. SVA) transferred to the REC and provisions associated with metering systems registered in Central Meter Registration Service (CMRS) (i.e. CVA) retained in the BSC

Ofgem’s [Decision](#) was published on 30 April 2021 which confirmed Option 3, which will transfer SVA metering from the BSC to the REC, whilst CVA metering would remain in the BSC.

REC v2.0 impacts

In order to give effect to its REC Consolidation SCR decision, Ofgem raised a number of cross code Modifications. [P420 ‘Retail Code Consolidation Significant Code Review’](#) was raised by Ofgem on 10 May 2021 to make the necessary changes to the BSC. P420 and REC V2.0 (and therefore the movement of the SVA MOA activities) was implemented on 1 September 2021.

P420 was raised to ensure the BSC aligns with Ofgem’s Retail Code Consolidation Significant Code Review, which consolidates a number of existing codes into the REC.

Specifically, P420 made the following change to the BSC:

1. Ensure the BSC reflects the close down of the MRA.
2. Transfer operational procedures relating to Metering Point Lifecycle from the MRA to the BSC.
3. Make the necessary changes to transfer SVA Metering arrangements to the REC, and facilitate a transition period for metering assurance.
4. Insert the required drafting to give effect to the Cross Codes Steering Group (CCSG), which will be established under the REC to better facilitate cross-code change.

Non Half Hourly Data Collector issues

BSCP504 walkthrough

The following relevant scenarios were identified for the walkthrough of BSCP504 by the Workgroup:

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BSCP504 walkthrough	
BSCP504 section	Description
3.2.1	Supplier requests New Connection - Metered Supply
3.2.3	Change of NHHDC for an existing SVA Metering System not concurrent with a Change of Supplier
3.2.6	Change of Supplier for an existing SVA Metering System
3.2.7	Change of LDSO
3.2.8	Change of Supplier - No Meter
3.3.1	Coincident Change of Measurement Class from NHH to a HH and Change of Supplier for HHDC-serviced Metering Systems
3.3.2	Coincident Change of Supplier and Measurement Class from a Half Hourly to a Non Half Hourly SVA Metering System

For all other relevant processes in BSCP504 (see examples below), the Proposer believed that the Export process would be the same as the Import process and asked for the Workgroup to validate this.

BSCP504 walkthrough	
BSCP504 section	Description
3.3.3	Energise a SVA Metering System
3.3.5	Disconnection of a SVA Metering System
3.3.11	Calculate Annualised Advance (AA)/Estimated Annual Consumption (EAC) Values and send to Non Half Hourly Data Aggregator (NHHDA) and Supplier

The Workgroup were invited to suggest any other sections which had not been considered by the Proposer which should be reviewed, but there were no additional relevant sections of BSCP504 identified.

4 Conclusions

There were three Issue 91 Workgroup meetings held, on [8 December 2020](#), [3 February 2021](#) and [2 July 2021](#). The conclusions of the Issue 91 Workgroup can be found below.

Meter Operator Agent issues

The Workgroup identified a number of proposed changes to BSCP514 relating to the operation and management of SEG sites, particularly with reference to how to notify the NHHMOA that they are being appointed to an Export MPAN.

As explained in the Issue Group's Discussions section, SVA Metering activities will be moving from the BSC to the REC from 1 September 2021. Therefore any redlined changes to BSCP514 identified by the Workgroup would therefore need to be incorporated into the REC Metering Operations Schedule. The Retail Energy Code Company (RECCo) have confirmed that they can raise the change themselves and that it won't need to be raised by a REC Party. The implementation approach will be considered by REC, subject to Central Switching Service (CSS) and REC v3.0 considerations, which may impact on the REC change pipeline.

Using the D0155 to notify the NHHMOA that they are being appointed to an Export MPAN

The Workgroup agreed that the D0155 would be the best way to notify the Export MPAN to the NHHMOA. A change will need to be raised to this Data Flow, but due to the closedown of the Master Registration Agreement (MRA) due to Retail Code Consolidation (RCC) effective from 1 September 2021, this change will need to be progressed under the REC change process.

Non Half Hourly Data Collector issues

The Workgroup identified no changes required to BSCP504 relating to the operation and management of SEG sites.

BSC Guidance Notes

The Workgroup agreed that the BSC Guidance Notes for [Microgeneration and the Balancing and Settlement Code](#) and [Metering Demand Sites with generating equipment installed \(Import Export metering systems\)](#) would be reviewed and the Workgroup would be invited to review the draft updated BSC Guidance Notes.

Appendix 1: Issue Group Membership

Issue Group membership and attendance

Issue 91 Group Attendance				
Name	Organisation	8 Dec 20	3 Feb 21	2 Jul 21
Elliott Harper	Elexon (<i>Chair</i>)	✓	✓	✗
Lawrence Jones	Elexon (<i>Chair</i>)	✗	✗	✓
Paul Wheeler	Elexon (<i>Lead Analyst</i>)	✓	✓	✓
Kevin Spencer	Elexon (<i>Design Authority</i>)	✓	✓	✗
Derek Weaving	Elexon (<i>Design Authority</i>)	✗	✗	✓
Stephen Newsam	Elexon (<i>SME</i>)	✓	✓	✗
Paul Saker	EDF Energy (<i>Proposer</i>)	✓	✓	✓
Martin Pearce	EDF Energy (<i>Proposer</i>)	✓	✗	✗
Mark Bolt	Utility Warehouse	✗	✓	✗
Phillipa Burton	Scottish Power	✗	✓	✗
Danny Byrne	Utilita	✓	✗	✗
Terry Carr	E.ON	✓	✗	✗
James Cartmell	Utility Warehouse	✗	✓	✓
Seth Chapman	Callisto	✓	✓	✓
Tom Chevalier	Power Data Associates	✓	✓	✓
Audrey Cochrane	Scottish Power	✓	✗	✗
Caitlin Connell	Bulb	✓	✓	✗
Iulia Dinca	Utility Warehouse	✓	✗	✗
Claire Fortune	Shell Energy Retail Limited	✓	✓	✓
Lee Francis	SMS	✓	✗	✗
Katie Glennon	Bulb	✓	✓	✗
John Jones	Scottish Power	✓	✗	✗
Robert Langdon	SMS	✗	✗	✓
Emslie Law	SSE-OVO	✓	✓	✓
Kristina Leary	SMS	✗	✓	✓
Michael Messenger	IMServ	✓	✓	✓
Silvia Nuñez Rivero	Scottish Power	✓	✓	✗
Claire Louise Roberts	Scottish Power	✗	✓	✗
Phil Russell	Independent	✓	✗	✗
Sarah-Jane Russell	Centrica	✗	✗	✓
Zoe Smith	Scottish Power	✓	✗	✗

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Issue 91 Group Attendance				
Name	Organisation	8 Dec 20	3 Feb 21	2 Jul 21
Derek Weaving	Centrica	✓	✓	✗
Wayne West	Utility Warehouse	✗	✗	✓
Nik Wills	Stark	✓	✓	✓
Matt Winstanley	Utiligroup	✓	✓	✗

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Appendix 2: Glossary & References

Acronyms

Acronyms used in this document are listed in the table below.

Acronyms	
Acronym	Definition
AA	Annualised Advance
AMR	Automated Meter Reading
BEIS	Department for Business, Energy and Industrial Strategy
BSC	Balancing and Settlement Code
BSCP	Balancing and Settlement Code Procedure
CCSG	Cross Code Steering Group
CHP	Combined Heat and Power
CMRS	Central Meter Registration Service
CoMC	Change of Measurement Class
CoP	Codes of Practice
CoS	Change of Supply
CSS	Central Switching Service
CVA	Central Volume Allocation
DC	Data Collector
DCC	Data Communications Company
DTC	Data Transfer Catalogue
DWG	Design Working Group
EAC	Estimated Annual Consumption
ECOES	Electricity Central Online Enquiry Service
EV	Electric Vehicle
FIT	Feed-in Tariff
HH	Half Hourly
LDSO	Licensed Distribution System Operator
MCS	Microgeneration Certification Scheme
MEM	Metering Equipment Manager
MHHS	Market-wide Half Hourly Settlement
MOA	Meter Operator Agent
MPAN	Meter Point Administration Number
MPAS	Meter Point Administration Service
MRA	Master Registration Agent
MS	Metering System

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Acronyms	
Acronym	Definition
NHH	Non Half Hourly
NHHDA	Non Half Hourly Data Aggregator
NHHDC	Non Half Hourly Data Collector
NHHMOA	Non Half Hourly Meter Operator Agent
PC	Profile Class
PV	Photovoltaic
RCC	Retail Code Consolidation
REC	Retail Energy Code
RECCo	Retail Energy Code Company
RF	Reconciliation Final
SCR	Significant Code Review
SEG	Smart Export Guarantee
SMETS	Smart Meter Equipment Technical Specifications
SMRS	Supplier Meter Registration Service
SMSO	Smart Meter System Operators
SPAA	Supply Point Administration Agreement
SSC	Standard Settlement Configuration
SVA	Supplier Volume Allocation
TOM	Target Operating Model
ToU	Time of Use

DTC data flows

DTC data flows referenced in this document are listed in the table below.

DTC Data Flows with mapping to Market Message		
DTC Data Flow	Market Message	Name
D0001	MM00001	Request Metering System Investigation
D0005	MM00168	Instruction on Action
D0086	MM00004	Notification of Change of Supplier Readings
D0142	MM00042	Request for Installation or Change to a Metering System Functionality or the Removal of All Meters
D0149	MM00047	Notification of Mapping Details
D0150	MM00051	Non Half-hourly Meter Technical Details
D0155	MM00065	Notification of Meter Operator or Data Collector Appointment and Terms
D0367	MM00336	Smart Meter Configuration Details

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External links

A summary of all hyperlinks used in this document are listed in the table below.

All external documents and URL links listed are correct as of the date of this document.

External Links		
Page(s)	Description	URL
2, 3, 5	BSCP504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'	https://www.elexon.co.uk/csd/bscp504-non-half-hourly-data-collection-for-sva-metering-systems-registered-in-smrs/
2, 3, 5	BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'	https://www.elexon.co.uk/csd/bscp514-sva-meter-operations-for-metering-systems-registered-in-smrs/
2	Smart Export Guarantee	https://www.ofgem.gov.uk/environmental-programmes/smart-export-guarantee-seg/about-smart-export-guarantee-seg
2, 3	P081 'Removal of the Requirement for Half Hourly Metering on Third Party Generators at Domestic Premises'	https://www.elexon.co.uk/mod-proposal/p081-removal-of-the-requirement-for-half-hourly-metering-on-third-party-generators-at-domestic-premises/
2, 11	D0155 'Notification of Meter Operator or Data Collector Appointment and Terms'	https://dct.mrasco.com/DataFlow.aspx?FlowCounter=0155&FlowVers=1&searchMockFlows=False
2, 8, 14	BSC Guidance Note 'Microgeneration and the Balancing and Settlement Code'	https://www.elexon.co.uk/guidance-note/microgeneration-and-the-balancing-and-settlement-code/
2, 8, 14	BSC Guidance Note 'Metering Demand Sites with generating equipment installed (Import Export metering systems)'	https://www.elexon.co.uk/guidance-note/metering-demand-sites-generating-equipment-installed-import-export-metering-systems/
3	BSC Section L 'Metering'	https://www.elexon.co.uk/the-bsc/bsc-section-l-metering/
3, 12	Ofgem Decision on Retail Energy Code v2.0 and Retail Code Consolidation Consultation	https://www.ofgem.gov.uk/publications-and-updates/decision-retail-energy-code-v20-and-retail-code-consolidation-consultation
4	BSC Section J 'Party Agents and Qualification Under the Code'	https://www.elexon.co.uk/the-bsc/bsc-section-j-party-agents-and-qualification-under-the-code/
5	Feed-in Tariffs	https://www.ofgem.gov.uk/environmental-and-social-schemes/feed-tariffs-fit
5	Standard Licence Condition 57 Schedule A 2.1.3(b)	https://epr.ofgem.gov.uk/Content/Documents/Electricity%20Supply%20Standard%20Licence%20Conditions%20Consolidated%20-%20Current%20Version.pdf

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External Links		
Page(s)	Description	URL
6	SEG Supplier List	https://www.ofgem.gov.uk/publications/seg-supplier-list
8	D0086 'Notification of Change of Supplier Readings'	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0086&FlowVers=2&searchMockFlows=False
8	Design Working Group	https://www.elexon.co.uk/group/design-working-group/
9	Electricity Central Online Enquiry Service (ECOES)	https://www.ecoes.co.uk/
10	D0149 'Notification of Mapping Details'	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0149&FlowVers=1&searchMockFlows=False
10	D0150 'Non Half-hourly Meter Technical Details'	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0150&FlowVers=2&searchMockFlows=False
11	D0001 'Request Metering System Investigation'	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0001&FlowVers=1&searchMockFlows=False
11	D0005 'Instruction on Action'	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0005&FlowVers=1&searchMockFlows=False
11	D0142 'Request for Installation or Change to a Metering System Functionality or the Removal of All Meters'	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0142&FlowVers=1&searchMockFlows=False
12	Retail Energy Code v2.0 and Retail Code Consolidation	https://www.ofgem.gov.uk/publications-and-updates/retail-energy-code-v20-and-retail-code-consolidation
12	P420 'Retail Code Consolidation Significant Code Review'	https://www.elexon.co.uk/mod-proposal/p420/
12	Issue 91 Workgroup 1	https://www.elexon.co.uk/meeting/issue-91-workgroup-1/
12	Issue 91 Workgroup 2	https://www.elexon.co.uk/meeting/issue-91-workgroup-2/
12	Issue 91 Workgroup 3	https://www.elexon.co.uk/meeting/issue-91-workgroup-3/