

Final Modification Report

CMP308: Removal of BSUoS charges from Generation

Overview: This proposal seeks to modify the CUSC to better align GB market arrangements with those prevalent within other EU member states. This will deliver more effective competition and trade across the EU and so deliver benefits to all end consumers.

It is proposed that liability to pay Balancing Services Use of System (BSUoS) charges, which are currently charged to all liable CUSC parties on a non-locational MWh basis, is removed from GB Generators.

The Second Balancing Services Charges Task Force has now recommended that BSUoS should be paid by Final Demand which would be achieved by this proposal with an implementation date of 1st April 2023.

Modification process & timetable



Have 5 minutes? Read our [Executive summary](#)

Have 20 minutes? Read the full Final Modification Report

Have 30 minutes? Read the full Final Modification Report and Annexes.

Status summary: Final Modification Report. This report has been submitted to the Authority for them to decide whether this change should happen.

Panel recommendation: The Panel held their recommendation vote on 14 September 2021. The CUSC Panel, unanimously recommended that the Proposer's solution should be implemented.

This modification is expected to have a: **High impact for all GB BSUoS Payers**

Governance route Standard Governance Route

Who can I talk to about the change?
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Executive summary

This proposal seeks to modify the CUSC to better align GB market arrangements with those prevalent within other EU member states. This will deliver more effective competition and trade across the EU and so deliver benefits to all end consumers.

It is proposed that liability to pay Balancing Services Use of System (BSUoS) charges, which are currently charged to all liable CUSC parties on a non-locational MWh basis, is removed from GB Generators.”

Please note that the CMP308 Workgroup have held a Second Workgroup Consultation to reflect industry developments and updates to the Terms of Reference since the Workgroup reconvened after the Second Balancing Services Charges Task Force.

What is the issue?

In our European trading partners and other interconnected countries, the equivalent charges for balancing activities are more commonly charged entirely on demand.

As a result, the wholesale prices offered by generators in interconnected countries will not reflect these costs in the same way as those offered by a GB generator. Our estimate is that GB generation was disadvantaged by the extra cost by approximately £600m in 2017.

Following the Second Balancing [Services Charges Task Force](#), it was recommended that BSUoS should be paid by Final Demand. CMP308 was put on hold until the conclusion of this Task Force but restarted as a vehicle to implement this recommendation with an expected implementation date of 1st April 2023.

What is the solution and when will it come into effect?

Proposer’s solution: This proposal seeks to modify the CUSC to align GB market arrangements with those prevalent within other EU member states. This will deliver more effective competition and trade across the EU and so deliver benefits to all end consumers. It will also further align treatment of transmission and distribution connected generation assets.

It is proposed that Balancing Services Use of System (BSUoS) charges, which are currently charged to all liable CUSC parties on a non-locational MWh basis, are removed from GB Generators. This will effectively better align the GB ‘generation cost stack’ with those in other EU markets, thus facilitating more equitable competition with generation in those markets which are not subject to such charges.

Implementation date: 1 April 2023.

Summary of potential alternative solution(s) and implementation date(s):

No alternative solutions are proposed by the Workgroup.

Workgroup conclusions: The Workgroup concluded by majority that the Original better facilitated the Applicable Objectives than the Baseline.

Panel recommendation: The Panel held their recommendation vote on 14 September 2021. The CUSC Panel unanimously recommended that the Proposer's solution should be implemented.

What is the impact if this change is made?

With sufficient lead time for implementation, the proposer's modelling indicates that the consumer impacts in the short-term are likely to be neutral.

In the long run removal of the identified distortion in the wholesale market would ensure more effective competition which is in consumers' interests: i.e. will ensure dispatch and investment in new generation is more efficient.

- Demand BSUoS will be less than double of current BSUoS £/MWh rates as interconnector flows to GB do not pay BSUoS (i.e. split of BSUoS between demand and generation is not currently 50:50), i.e. consumers neutral short term.
- Sufficient lead time of 2 years after a decision is made¹ to ensure:
 - wholesale market adjusts to the removal of BSUoS from generation
 - time for consumers and suppliers to adjust for change.
- Benefit of avoiding the need to factor BSUoS risk into generation/wholesale market costs, instead being covered within more predictable demand volumes.

Interactions

This modification has interactions with the [Second Balancing Services Charges Task Force](#), and looks to satisfy the Task Force's recommendation on Deliverable 1 that BSUoS charges should be levied on Final Demand. There will also be interactions with other modifications arising from the Second Balancing Services Charges Task Force, namely CMP361 and CMP362.

¹ Following the Second Balancing Services Charges Task Force the implementation date is now expected to be 1st April 2023

What is the issue?

In our European trading partners' and other interconnected countries, the equivalent charges for balancing activities are more commonly charged entirely on demand.

As a result, the wholesale prices offered by generators in interconnected countries will not reflect these costs in the same way as those offered by a GB generator. Our estimate is that GB generation was disadvantaged by the extra cost by approximately £600m in 2017.

Why change?

Better aligning the GB market arrangements and the charges faced by GB generation with those prevalent in other interconnected countries, where generation is typically not subject to such charges, would allow GB and continental generation to compete on a more equitable basis and would remove the potential for BSUoS to distort cross border trade.

This proposal would also align BSUoS charging treatment between transmission and distribution connected generation and storage.

Ofgem broadly supported a similar proposal (CMP201) in 2014 but considered the short-term consumer negative impact outweighed the longer-term benefits:

"We consider that in principle, removing BSUoS from generators would have a small positive impact on competition. However, we are concerned that at this time the potential benefits this would bring would not be material enough to offset the potential costs to consumers from implementing the modification" – from Ofgem's CMP201 decision document, October 2014.

However, the ESO's calculations, on which Ofgem's decision was based, were that CMP201 would be detrimental to consumers in the short term. This did not take into account the impact of CMP202 (Revised treatment of BSUoS charges for lead parties of Interconnector BM Units), so:

- CMP201 modelling (for status quo) assumed BSUoS was split 50:50 between demand and generation.
- As a result of CMP202 the Generation:Demand split for BSUoS charging in 2017 was around 49:51 and is expected to be 47:53 by 2020.
- This reduces the cost increase for suppliers to a value that is roughly equal to the reduction in GB wholesale prices.

What is the solution?

Proposer's solution

In the Proposer's view it is proposed that Balancing Services Use of System (BSUoS) charges, which are currently charged to all liable CUSC parties on a non-locational £/MWh basis, are removed from GB Generators. This will effectively align this part of the cost base that lies behind the GB 'generation cost stack' with that of generators in other EU markets,

thus facilitating more equitable competition with generation in other markets which are not subject to such charges.

This proposal seeks to modify the CUSC to align GB market arrangements with those prevalent within other EU member states. This will deliver more effective competition and trade across the EU and so deliver benefits to all end consumers.

It is proposed that Balancing Services Use of System (BSUoS) charges, which are currently charged to all liable CUSC parties on a non-locational MWh basis, are removed from GB Generators. This will effectively better align the GB 'generation cost stack' with those in other EU markets, thus facilitating more equitable competition with generation in those markets which are not subject to such charges.

In the FMR (Final Modification Report) for CMP201, a very similar proposal, the ESO indicated that there would be an impact on central IS systems to adjust revenue recovery to demand parties. They stated that this impact is likely to be relatively minor (less than £100k) and would not comprise a "critical path" item for implementation (assuming a minimum two year lead time for contractual reasons).

The ESO are proposing to deliver the BSUoS reform changes in 2023 as part of the new charging & billing solution. Understanding the requirements for CMP308 and any other modifications proposed as part of BSUoS reform will form part of the critical path for designing the new system to ensure the methodology changes are built in early from the requirements and design stage in Q2 and Q3 Financial Year (FY) 22.

Also, in the CMP201 FMR no significant IS issues for Users were identified as part of the Workgroup consultation.

This modification has interactions with the [Second Balancing Services Charges Task Force](#), and looks to satisfy the Task Force's recommendation on Deliverable 1 that BSUoS charges should be levied on Final Demand with an expected implementation date of 1st April 2023.

Workgroup considerations

Consideration of the proposer's solution

The Workgroup convened 12 times to discuss the perceived issue, detail the scope of the proposed defect, devise potential solutions and assess the proposal in terms of the Applicable Objectives.

The Workgroup held their first Workgroup Consultation between 05 April – 08 May 2019 and received 20 responses. The full responses can be found in Annex 4 of this consultation.

A second Workgroup Consultation was held as a result of developments since the first Workgroup Consultation and changes to the Terms of Reference, as highlighted in paragraph 5.2 of this document.

1. Context – CMP201 and CMP202

1.1 What did CMP201 try to achieve?

1.1.1 *CMP201: Removal of BSUoS charges from Generation* was raised by National Grid Electricity Transmission in October 2011. Like CMP308, CMP201 sought to remove BSUoS liabilities from Generation in order to bring GB Market arrangements in line with those prevalent within other EU member states. It was argued in the proposal for CMP201 that this would deliver more effective competition and trade across the EU and so deliver benefits to all end consumers.

1.1.2 The Proposer of CMP201 argued that removing BSUoS charges from generation would yield no adverse effects for GB end consumers, subject to implementation taking account of then existing contractual commitments. The argument was put forward that aligning the GB market arrangements with other member states better would facilitate an efficient functioning internal market in electricity and to that end, GB consumers would benefit from more competitive arrangements delivered through a wider fully functioning competitive market in generation.

1.1.3 After going through the standard CUSC modification procedure, CMP201 was rejected by Ofgem on 2 October 2014². Despite rejection of the modification, Ofgem stated in this letter that they “firmly support the move towards more closely integrated European markets for electricity”, and that “removing BSUoS from generators would have a small positive impact on competition”³. However, the Authority highlighted that the “potential benefits this would bring would not be material enough to offset the potential costs to consumers from implementing the modification”. The Authority came to the conclusion that the short-term negative impacts to the market of implementing CMP201 would not be negated by the longer-term benefits of the modification at that point in time.

The modelling suggested that the costs to GB consumers could be between £200m - £250m per year (equating to £2.00-£2.50 increase in bills for the average domestic consumer) with an annual increase in generator profits of between £181m and £281m⁴.

1.1.4 At the time CMP201 was raised, BSUoS charges were levied on a 50:50 split basis generators and suppliers. Generators would charge on their share of BSUoS charges to suppliers through the wholesale price and suppliers then pass the cost to the consumer through the retail price. The proposer and some Workgroup members believe that the parameters in this scenario, under which Ofgem rejected CMP201, have now changed, leading for the need for the defect to be re-examined.

1.2 What has changed since CMP201?

1.2.1 CMP202 was raised by National Grid Electricity Transmission in December 2011 to remove BSUoS charges from interconnector Balancing Mechanism (BM) Units and Trading Units associated with interconnectors. This modification was implemented into the CUSC charging arrangements on 1 April 2013. The proposer of CMP308 believes that in 2017, the results of the implementation of CMP202 has shifted the balance of BSUoS Generation:Demand charging split was 49:51, and is expected to shift even further to demand, with a 47:53 split expected by 2020.

² Ofgem Decision Letter on CMP201 – 2 October 2014 -

<https://www.nationalgrideso.com/codes/connection-and-use-system-code-cusc/modifications/removal-bsuos-charges-generation>

³ Ibid, p1.

⁴ <https://www.nationalgrideso.com/document/6156/download>, p4

1.2.2 The Proposer revisited the findings of the CMP201 modelling and presented this to the Workgroup. Although awareness of CMP202 was noted by the Workgroup in the CMP201 report (and Ofgem decision letter, the Proposer argued that an assumption of CMP201 was that BSUoS charges were at that time split 50:50 between production and demand. Following CMP202 the production volume from interconnection is no longer liable for BSUoS charges and thus this assumption no longer held. This assumption affects the modelled consumer impacts in the short-term identified by National Grid Electricity Transmission’s modelling at the time. Revising this assumption means that the consumer impacts in the short-term are close to neutral, whereas Ofgem has seen this as negative in their assessment of CMP201. The longer-term benefits from more effective competition will remain⁵.

| The case for change has grown since CMP201: | | | |
|---|----------------------------------|-----------------------------------|---------------|
| | Interconnection (GW) | Interconnection volume (TWh) | BSUoS (£/MWh) |
| CMP201 (2012) | 3GW (2GW to mainland EU) | 10 | £1.51/MWh |
| Now (2017) | 4GW (3GW to mainland EU) | 16 | £2.48/MWh |
| Future | c.8GW 2020 c.18GW early 2020s | 30-70TWh (2021-2025) ¹ | Growing |

Figure 1 – Table produced by proposer illustrating case for change growing since CMP201

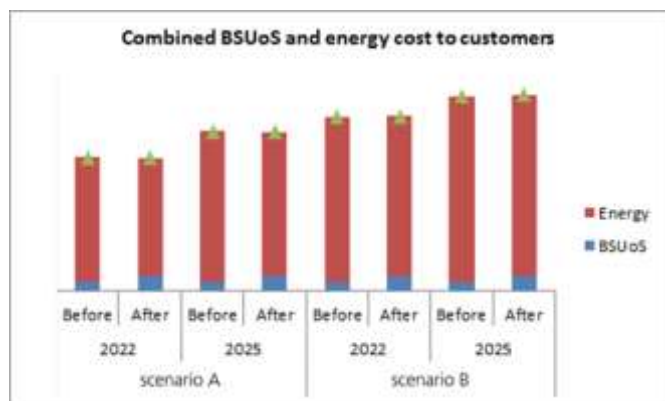


Figure 2: Proposer Analysis of Combined BSUoS and Energy Costs to Consumers (Long-Term Benefit)

1.3 Have the Consumer Benefits Changed Since CMP201 was rejected, and CMP202 was implemented?

1.3.1 In the initial discussions around the modification, the Proposer highlighted several consumer benefits of the modification. For our European trading partners and other interconnected countries, the equivalent charges for balancing activities are more commonly paid entirely by suppliers.

⁵ The ESO confirmed that throughout the modification analysis for CMP201, the work took into account the effects of CMP202. CMP201 was raised as a response to the intention to raise CMP202 so the effects were always considered throughout the process.

1.3.2 The proposer opined that as a result, the wholesale prices offered by generators in interconnected countries will not reflect these costs in the same way as those offered by a GB generator. The proposer's estimate is that GB generation is disadvantaged by the extra cost of around £600m in 2017. The proposer set out his view that removing the costs from generation would hence better facilitate efficient competition between GB generation and generation in other interconnected markets.

1.3.3 The proposer stated that better aligning the GB market arrangements and the charges faced by GB generation with those prevalent in other interconnected countries, where generation is typically not subject to such charges, allows GB and continental generation to compete on a more equitable basis and removes the potential for BSUoS to distort cross border trade. By and large, similar points were made throughout the CMP201 process.

1.3.4 The proposer also highlighted that the modification supports the UK Industrial Strategy⁶ which was not in place when CMP201 was rejected. The proposer also highlighted the EU "Third Package" aims to deliver all consumers greater choice with more cross-border trade so as to achieve efficiency gains, competitive prices and security of supply.

1.3.5 The Workgroup revalidated the longer-term benefits used in CMP201 during the Workgroup process. Within the CMP201 Ofgem decision letter the following was stated: *We support the fundamental economic principle that increasing competition should lead to lower wholesale prices in the long run.*

Specifically, in relation to longer-term impacts Ofgem made the following points:

- *Higher profits for generators should encourage greater investment in GB generation – either in the form of new plant build or delayed closure/refurbishment of existing infrastructure;*
- *The increased investment would exert competitive pressure on the GB wholesale electricity price which would reduce or potentially eliminate the short-term increase noted above.*

1.3.6 Also, within the CMP201 FMR the following were highlighted, as a part of the EU Third Package, as important benefits for end consumers in the long term:

- *market prices should give the right incentives for investing in new generation;*
- *promoting fair competition and fostering new generation capacity in order to allow consumers to take full advantage of the opportunities of a liberalised market;*
- *fostering integration of their internal markets*
- *development of a true internal market through cross-border trade;*
- *Common rules for a true internal market that provides undistorted market prices, providing incentives for cross-border interconnection and new generation investment*

1.3.7 The proposer reiterated the benefits to both Industrial Strategy and Security of Supply. After discussions the Workgroup agreed that these potential benefits would still exist should CMP308 be implemented.

⁶ <https://www.gov.uk/government/topical-events/the-uks-industrial-strategy>

2. Analysis required to support CMP308

2.1 Recovery from Generation in Other European Countries

| Recovery from Generation? | System Services | | | | | | |
|---------------------------|-----------------|-------------------|------------------|------------|-------------|-----------------|------------------|
| | Primary reserve | Secondary reserve | Tertiary reserve | Congestion | Black start | Voltage control | System Balancing |
| Albania | No | No | No | No | No | No | No |
| Austria | No | Yes | No | No | No | No | No |
| Belgium | Yes | Yes | Yes | Yes | Yes | Yes | No |
| Bosnia and Herzegovina | No | No | No | No | No | No | No |
| Bulgaria | No | No | No | No | No | No | No |
| Croatia | No | No | No | No | No | No | No |
| Cyprus | No | No | No | No | No | No | No |
| Czech Republic | No | No | No | No | No | No | No |
| Denmark | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Estonia | No | No | No | No | No | No | No |
| Finland | No | No | Yes | Yes | Yes | Yes | Yes |
| France | No | No | No | No | No | No | No |
| Germany | No | No | No | No | No | No | No |
| Great Britain | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Greece | No | No | No | No | No | No | No |
| Hungary | No | No | No | No | No | No | No |
| Iceland | No | No | No | No | No | No | No |
| Ireland | Yes | Yes | Yes | Yes | Yes | Yes | No |
| Italy | No | No | No | No | No | No | No |
| Latvia | No | No | No | No | No | No | No |
| Lithuania | No | No | No | No | No | No | No |
| Luxembourg | No | No | No | No | No | No | No |
| Macedonia (FYROM) | No | No | No | No | No | No | No |
| Montenegro | No | Yes | Yes | No | No | No | Yes |
| Netherlands | No | No | No | No | No | No | No |
| Northern Ireland | No | No | No | No | No | No | No |
| Norway | Yes | Yes | Yes | Yes | Yes | Yes | No |
| Poland | No | No | No | No | No | No | No |
| Portugal | No | No | No | No | No | No | No |
| Romania | No | Yes | Yes | No | Yes | Yes | No |
| Serbia | No | No | No | No | No | No | No |
| Slovakia | Yes | Yes | Yes | No | Yes | Yes | No |
| Slovenia | No | No | No | No | No | No | No |
| Spain | No | No | No | No | No | No | No |
| Sweden | Yes | No | No | No | Yes | Yes | No |
| Switzerland | No | No | No | No | No | No | No |

Figure 3: Balancing Charges Levied on Generation in Other European Countries

2.1.1 As Figure 3 illustrates⁷, the current situation whereby BSUoS is charged on Generation in the GB market, albeit not unique in its specificity, is certainly in the minority

⁷ ENTSO-E Overview of Transmission Tariffs in Europe: Synthesis 2018
https://docstore.entsoe.eu/Documents/MC%20documents/TTO_Synthesis_2018.pdf

when compared to other European Countries. In terms of GB arrangements, the only country which directly has the same arrangements is Denmark.

2.1.2 The majority of countries (26 out of the 36 illustrated above, or roughly 72%) charge no components of their balancing services charges equivalent on generation. In terms of electricity wholesale prices, this would place the GB wholesale market prices higher, ultimately impacting market participants and end consumers alike. This perceived disadvantage becomes even more pertinent when you consider the disparity between GB and some of our interconnected counterparts, such as the Netherlands and France. The latest report shows that for Ireland in 2019 System Balancing has been interpreted as being included in the Unit Transmission Tariff. This is a change from all previous publications, but no explanation is provided in the report for the difference.

2.1.3 The Workgroup was made aware of the Crown estates report 2018⁸ which states that interconnectors exist or are planned to seven of our European neighbours. Of these, four (Belgium, Denmark, Norway and Ireland) pay balancing charges, including congestion (constraint) charges whilst three (Germany, Netherlands and France) do not. In none of the reports referenced has enough information been provided on other generator costs to enable a full holistic comparison of the cost stack. The table presented does not include Frequency Response which is one of the larger ancillary charges, and no view of connection charging regimes, subsidies such as CM or green taxes and levies have been mentioned, nor indeed the quality of the network being provided. In 2014, system balancing charges in France were about one fifth of the UK charges⁹. One Workgroup member feels a holistic comparison should be undertaken before making such a radical change to a charging regime.

2.1.4 A Workgroup member undertook some further analysis of the charges in markets at the end of these interconnectors, by looking at the information published by relevant TSOs. The aim of this was to understand how many of the TSOs charge producers on the basis of MWh output during a relevant trading period, as a charge which wasn't made in this manner could not be regarded as a Short Run Marginal Cost and could not be expected to interfere with wholesale market decisions. This is consistent with ACER's 2014 opinion on transmission tariffs which concluded that energy-based generation charges can affect the dispatch decision of generators by increasing the Short Run Marginal Cost of power plants, whereas power based charges for instance have no effect as the Short Run Marginal Cost remains unchanged¹⁰. The Workgroup member concluded that that only two markets have something which is similar to BSUoS in how it is charged and that their rates are significantly below those in GB.

2.1.5 Following previous meeting's discussions on the Short-Term Marginal Costs being the key barrier to cross-border trade, rather than the longer term sunk costs, one Workgroup member was keen to explore the option of changing the way Generators were charged BSUoS rather than removing the charge completely. A suggestion was to change

⁸ <https://www.thecrownestate.co.uk/en-gb/media-and-insights/stories/2018-electricity-interconnectors/>

⁹ https://docstore.entsoe.eu/publications/market-reports/Documents/SYNTHESIS_2014_Final_140703.pdf.

¹⁰ Paras 3.1.2 and 3.1.3 of "OPINION OF THE AGENCY FOR THE COOPERATION OF ENERGY REGULATORS No 09/2014 (15 April 2014) ON THE APPROPRIATE RANGE OF TRANSMISSION CHARGES PAID BY ELECTRICITY PRODUCERS"

generators BSUoS from the current volume (energy) based charge to a capacity (power) based charge. This idea was discussed and whilst it did appear to help resolve the market distortion and facilitate cross-border trade, addressing the defect raised, there was no clear means to implementation such a solution and the unintended consequences made it a less attractive proposition.

2.1.6 The proposer undertook analysis in order to calculate a £s Million figure to this perceived disadvantage. This figure, which is the BSUoS figure paid by GB Generators in 2017, was approximately £600m. The Workgroup recognised that the actual lost opportunity cost would have been lower than this number, but it was concluded that this quantitative analysis would require support from specialist economic consultants with access to the appropriate market models taking into account other Short Run Marginal Costs, Long Run Marginal Costs and any relevant subsidies. Two Workgroup members stated, that in their opinion, this analysis would be necessary, but the majority of the Workgroup were happy to proceed on a principle based approach and did not consider the above analysis to be necessary.

2.2 Analysis of 2017 data, with and without the change implemented

2.2.1 As previously set out in the initial proposal, CMP308 seeks to remove the liability for BSUoS payments from generation. The thought process is to better align GB arrangements to those which are prevalent in our European equivalents, which should in turn see a reduction in the wholesale energy costs charged by generators to suppliers in the GB energy market for Balancing Services. In order to establish the case behind the hypothesis of this proposal, the Workgroup undertook various pieces of analysis.

2.2.2 The Workgroup initially examined analysis undertaken by the proposer, which looked into BSUoS data from 2017 without the proposed change implemented (generation and demand still paying BSUoS), and BSUoS data from 2017 with the proposed change implemented (with only demand paying BSUoS) to see what the impacts would be.. The analysis shows that if the change had been implemented for 2017, the reduction in wholesale electricity prices does not need to be the full BSUoS £/MWh rate, which may be the case due to increased GB generation being at a higher marginal cost when offsetting changes in interconnector flows. With an efficiently operating market¹¹ this means that there would still be a consumer benefit manifesting itself in the total cost to the consumer in the short-term, unless the differential was greater than 15p a MWh. Two Workgroup members highlighted the analysis from CMP201, which may challenge the assumption that the differential will be less than 15p a MWh.

2.2.3 One Workgroup member believed that this Modification would adversely impact Interconnector business revenues thereby undermining business case for future interconnector build. However, the majority of Workgroup members felt that removing a market distortion would contribute to the development of an efficient level of interconnection.

2.3 Analysis on likely effect of CMP308 on risk management costs and processes

2.3.1 A Workgroup member put forward to the Workgroup that although CMP308 is primarily focussed on removing a distortion to cross border trade, there is also an argument

¹¹ <https://www.gov.uk/cma-cases/energy-market-investigation>

that it simplifies the processes needed to manage the risk that BSUoS imposes on the market in its current form, and therefore reduces the cost associated with this.

2.3.2 Figure 4 below shows in a simplified form how the market presently has to manage the unpredictability and risk associated with BSUoS. It shows that there are essentially three main points where participants may be required to do so. Firstly, suppliers have to forecast what BSUoS might be and reflect this in the prices and tariffs they set for their customers, often some considerable time in advance.

2.3.3 Secondly, generators are required to forecast what they believe BSUoS will be and reflect this in the offers they make into the energy market, as well as into the Balancing Mechanism and other balancing arrangements (such as TERRE in the future). They do so over different timescales and in different market mechanisms, so this part of the diagram actually reflects multiple market interactions. Finally, Suppliers may try to understand how energy prices and balancing related costs that they are exposed to, such as imbalance prices, will be affected by BSUoS being priced in by generators in this way.

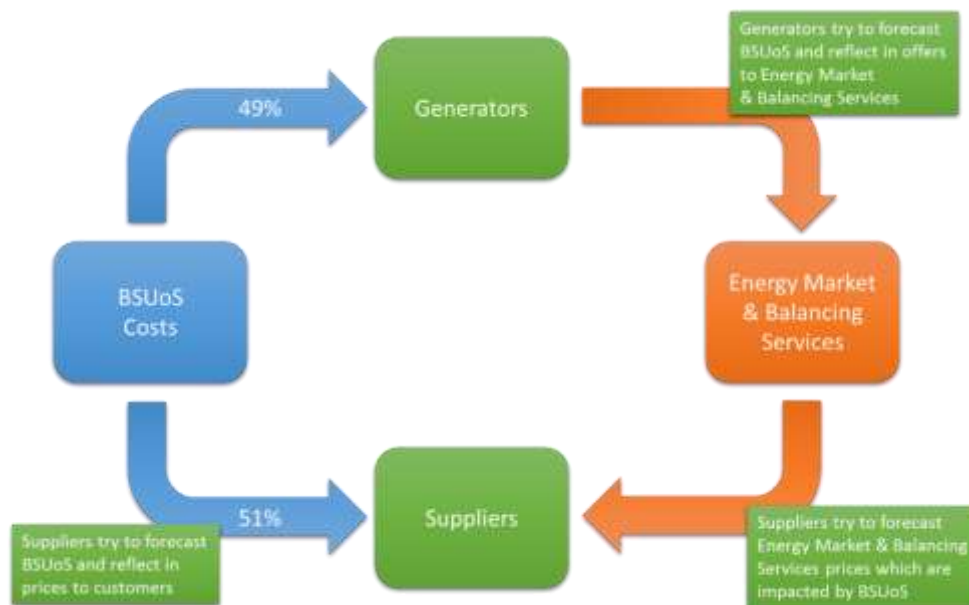


Figure 4: Present Charging of BSUoS

2.3.4 At all of these points, parties have to manage the risk associated with these transactions. This adds transaction costs as people and systems are required to carry out these functions. It should be noted, however, that feedback from supplier Workgroup members suggest that some suppliers may not explicitly try to understand BSUoS impacts when forecasting energy and imbalance prices. What is clear from Figure 3, is that BSUoS costs ultimately find their way to suppliers and therefore customers, albeit some of it through a more complicated and indirect route via generators.

2.3.5 Figure 4 below shows the alternative situation should CMP308 be approved. Unsurprisingly, by charging 100 percent of the costs directly to suppliers, rather than a proportion being channelled indirectly to them through other market mechanisms, the processes are greatly simplified. Self-evidently, this should reduce overall transaction costs which will inevitably occur through the more convoluted process needed for the current charging regime.



Figure 4: Charging of BSUoS under CMP308

2.3.6 The assessment process for CMP250 focussed on undertaking a quantitative analysis to estimate the savings in costs associated with lower risk premia. This proved problematic as it was difficult to obtain information on the risk premia that different parties applied in these circumstances. Given competition law restrictions and commercial confidentiality around this sort of information, or indeed that risk management processes might not actually involve choosing a defined risk premium, this is not surprising. However, the above analysis shows that on a qualitative basis CMP308 should provide cost reductions for the benefit of customers, by simplifying risk management processes across the industry as a whole. Although, some Workgroup members were of the view that given the analysis only considers transaction costs associated with BSUoS forecasting (i.e. people and systems), any cost savings were likely to be negligible in the context of overall GB BSUoS costs.

2.3.7 In the opinion of one Workgroup member, there is no real loss of efficiency were generators to become responsible for the full BSUoS risk rather than suppliers as this modification suggests, and offered an explanation, Currently, the generator portion of BSUoS is passed on to suppliers through the power markets. Suppliers do not need to take a view on this BSUoS cost since it forms part of the overall power price that they buy to hedge against the contract with the end consumer, and in this way pass all generator costs straight through to their customers. Suppliers purchase energy through the liquid market to hedge their risk – BSUoS is simply amalgamated with all the other generator costs e.g. fuel and is not treated separately. The Supplier element of BSUoS is currently the only non-hedgeable part of BSUoS for suppliers. In their opinion, in the same way the generator element of BSUoS is the only part of BSUoS which adds risk for generators; and hence the Workgroup member considers that both parties would like the other to pay the whole of BSUoS so they are fully protected from this cost. The majority of the Workgroup, did not share this view.

2.4 Impact of Supplier BSUoS Charge Increase under the Price Cap

2.4.1 Suppliers currently operate under two price cap regimes. For domestic customers with credit meters, Ofgem implemented the Default Tariff Cap from the 1st January 2019. For prepayment customers the Prepayment Price Cap came into effect on the 1st April 2017. At the beginning of every February and August, Ofgem publish the details of the cap for the forthcoming charge restriction period. The caps will provide allowances for wholesale costs and network costs (including BSUoS), as well as for other costs.

2.4.2 It is assumed that with the implementation of this modification and the subsequent removal of BSUoS charges from generators an immediate fall in forward wholesale prices would be felt. However, there can be no certainty that the wholesale prices will drop and remain at a level proportionate to the increase Suppliers will be subject to; and so, in the event the expected fall in wholesale prices does not occur there would be significant additional financial strain on Suppliers.

2.4.3 The BSUoS element of the Price Cap methodologies uses historical BSUoS charges to forecast the costs to Suppliers for the period ahead, and as such; should this modification be implemented there will be a lag period of more than one year before the current methodology would allow Suppliers to reflect the increase in their tariff prices.

2.4.4 Like any increase in wholesale, network, policy or other operating costs Suppliers react by revising their tariff prices to reflect the increase, but the current price cap methodologies do not allow for this. If the price cap calculation methodology remains unchanged any fall in forward wholesale prices will be reflected immediately in the Price Caps, but the increase in supplier BSUoS costs will not. This will create a clear disconnect between the costs that Suppliers face and the tariffs they are allowed to charge customers to recover those costs.

2.4.5 To summarise the material issue for Suppliers; any change in wholesale prices will be reflected in the retail price, and as such this would have no effect on a supplier whose hedging strategy mimics the wholesale price indexation in the caps. It does not matter how wholesale prices change in response to this modification, as any changes would be included in the price cap methodology. The point is that BSUoS costs for Suppliers would increase immediately following implementation, but the allowance for BSUoS costs will not increase immediately.

The influence of the cap would result in a suppression of retail prices, setting them below an economically efficient level that will force losses on efficient suppliers.

2.4.6 The Workgroup considered some responses which highlighted that the retail price cap could potentially have a detrimental impact on the progression of this modification. Prior to the Workgroup Consultation, discussions were held regarding how the domestic price cap utilised historic BSUoS charges to forecast the potential levels of BSUoS included in the price cap. If the modification was to be implemented, without adjustment to the basis of the BSUoS forecasting, it would no longer produce a representative forecast of BSUoS charges, causing a distortion in what costs suppliers must pay, as opposed to what they are able to recover from consumers under the new retail price cap. This is because suppliers actual BSUoS costs would be based on charges derived utilising the demand BSUoS charging base only, whereas the price cap allowance would be based on charges derived utilising the historic demand and generation BSUoS charging base.

2.4.7 One Workgroup member had indicated in their response that it was their belief that issues around the price cap may have to be resolved first for this modification to prove effective, otherwise there could be potential issues further down the line. The example was given that although the forecasts would reflect the changes brought about by this modification, the costs to suppliers would not necessarily reflect this, causing a distortion in what costs suppliers must pay, as opposed to what they are able to recover from consumers under the new retail price cap.

2.4.8 Whilst other members of the Workgroup expressed agreement with this viewpoint, the proposer and others believe that this issue was addressed in this report prior to the Workgroup consultation, and that the Workgroup were merely revisiting an issue which had

been discussed. The difference in opinion was noted and may be developed further within the Workgroup process.

2.4.9 Some Workgroup members suggested that it would seem appropriate, following approval of this modification by the Authority, and in advance of its implementation that the methodology for the price caps is revised to fairly reflect the inclusion of the increase in BSUoS charges Suppliers will be subject to. Should no such modification to the BSUoS methodology for the price cap be apparent prior to the Authority decision on this modification, the potential detrimental impacts on suppliers described above will need to be fully considered before approval or rejection of CMP308.

2.5 Analysis of Behind the Meter and Distributed Connected Generation Impacts of CMP308

2.5.1 One Workgroup member undertook analysis in regard to the behind the meter impacts of CMP308, after discussion was held during the first working group. It was suggested that the CMP308 proposal would significantly increase the BSUoS charge faced by suppliers.

2.5.2 The Workgroup discussed the potential impact of CMP308 on the incentives for parties to operate embedded generation and demand side response on sites connected to the distribution system.

2.5.3 The Workgroup considered this analysis at length, however during the modification process the issue of embedded benefits became irrelevant due to ongoing charging reform.

3.0 Wider Industry Developments

3.1 First Balancing Services Charges Task Force

3.1.1 Ofgem has asked the Electricity System Operator (ESO) to launch a Balancing Services Charges Task Force under the Charging Futures arrangements to provide analysis to support decisions on the future direction of Balancing Services Use of System charges (BSUoS). In particular, the Task Force was asked to examine the potential for and feasibility of some elements of balancing services charges being made more cost-reflective and hence provide stronger forward-looking signals.

3.1.2 The Task Force work was carried out with the assessment of CMP308. The Workgroup for CMP308 were advised to keep a close eye on the outputs of the Balancing Services Charges Task Force. There are some members of this Workgroup who are also Task Force members.

3.1.3 The proposer has frequently reiterated his wish that this modification be considered in a similar timeframe by the Authority as the outputs of the Task Force. However, the distinction between the two pieces of work are quite clear: the scope of the Task Force is looking at separate elements of the BSUoS cost and whether there can be a forward-looking signal, whereas the modification addresses the defect of uncompetitive charging between GB and European generators.

3.1.4 During the consultation period, the Balancing Services Charges Task Force published their draft conclusions. Their consultation on the draft report¹² closed on 17 May 2019, and the Workgroup had time to consider the draft report, and in some instances, provide input to the consultation. The final conclusions report was published on 31 May 2019.¹³

3.1.5 The Conclusions of the Task Force were that the current BSUoS charge, “does not currently provide any useful forward-looking signal which influences user behaviour to improve the economic and efficient operation of the market”¹⁴ The Task Force identified five principle factors as to why this is the case, namely that the current BSUoS charges are “hard to forecast, complex, increasingly volatile, that other market signals are more material and so take precedence, and the current BSUoS charge applies to all chargeable users of the transmission system on an equal basis”¹⁵.

3.1.6 The Task Force continued their work by looking into the individual elements of the BSUoS charge, and whether they had the ability to become more forwards looking and cost reflective. The elements highlighted for further development were locational transmission constraints; locational reactive and voltage constraints; response and reserve bands; and response and reserve utilisation. Other elements were discounted on a meritocratic basis at this point.

3.1.7 Further work into the four identified options was undertaken but “theoretical advantages to all four potential options identified, the implementation of each of these would not or could not provide a cost-reflective and forward-looking signal that would drive efficient and effective market behaviour”¹⁶.

3.1.8 The conclusion of the Task Force was that “it is not feasible to charge any of the components of BSUoS in a more cost-reflective and forward-looking manner that would effectively influence user behaviour that would help the system and/or lower costs to customers. Therefore, the costs included within BSUoS should all be treated on a cost-recovery basis”¹⁷.

3.1.9 The Workgroup considered the findings of the Task Force as part of their work, but ultimately the Workgroup is concerned with which user group pays BSUoS charges, as opposed to how they are recovered. The Workgroup has sought further reassurances that this modification will not be looked at in isolation, but in conjunction with other modifications and charging initiatives ongoing in industry at this point in time.

Second Balancing Services Charges Task Force

3.1.10 The Second Balancing Services Task Force was launched by the ESO in January 2020, in response to Ofgem’s request of 21st November 2019, and built on the work of the First Balancing Services Task Force (Jan 2019 – May 2019). The initial timelines specified by Ofgem required the Final Report to be submitted by the Task Force in June 2020. Following the disruption caused by COVID-19 Ofgem decided to pause the Task Force’s work pushing the submission date of this Final Report back to September 2020.

¹² <http://www.chargingfutures.com/media/1330/balancing-services-charges-task-force-draft-report.pdf>

¹³ <http://www.chargingfutures.com/media/1348/balancing-services-charges-task-force-final-report.pdf>

¹⁴ Ibid, p4

¹⁵ Ibid, p4

¹⁶ Ibid, p5

¹⁷ Ibid, p5

3.1.11 The Task Force had two deliverables to consider: 1) Who should be liable for Balancing Services Charges, and; 2) How these charges should be recovered.

3.1.12 On Deliverable 1, who should pay, the Task Force recommend that “Final Demand” should pay all Balancing Services charges, subject to sufficient notice to industry prior to implementation.

3.1.13 On Deliverable 2, how should the charge be levied the Task Force have concluded that a volumetric fixed BSUoS charge would deliver overall industry benefit, and that the total length of the fix and notice period should be around 14/15 months in length. There was extensive debate whether the charge should be similar to the Transmission Demand Residual methodology (i.e. £/site, based on size) or volumetric (i.e. £/MWh).

3.1.14 The Task Force discussions are laid out in a table in the [final report](#) which shows assessment of each approach against the TCR principles. Ultimately, the distributional impacts of a banded charge and the complexity it introduces led The Task Force to agree by majority that the most appropriate way of recovering the charge is through a volumetric (£/MWh) charge. This is particularly relevant for a charge which is recovering costs related to an energy service.

3.1.15 Fixing BSUoS charges ex ante requires the ESO to manage the volatility risk on behalf of BSUoS payees for the duration of the fix period. It is the Taskforce’s view that the BSUoS tariff would be fixed so all payees know the £/MWh fixed tariff in advance and the ESO carries any cost not covered by the fixed fees as no party knows exactly how much Balancing Services expenditure will be over the period. This creates an over/under recovery risk, and associated cash-flow costs, for the ESO to manage. The Task Force recognised a compromise needed to be made between certainty for suppliers and shortfall minimisation for the ESO.

3.1.16 This led to a recommendation for a 14/15-month total fix and notice period. Notice to industry of the changes to the methodology is important; the Task Force recommend that two years’ notice from the point of Ofgem’s response is given, this notice period would include notice of the fixed charge such that tariffs begin on 1st April two years after Ofgem’s response. The Task Force noted that it’s important that Ofgem’s response gives clear indication on the future BSUoS arrangements. The Task Force’s conclusions and the reasoning given in this accompanying report will be reviewed by Ofgem to determine the next steps for changes to the Balancing Services charging methodology.

3.1.17 The Task Force’s recommendations for further work in this area are:

- to revisit the CMP201 analysis to understand whether the conclusions still hold. This analysis should include the impacts on other markets (capacity market, balancing mechanism, the treatment of interconnector congestion revenue etc.) and explore both present and potential future market structures, as these were not considered under CMP201;
- to identify a suitable combination of fix and notice period for the BSUoS tariff through quantitative analysis of supplier risk management and ESO financing;
- to form a BSC issues group after the conclusion of the CUSC modifications which will implement Ofgem’s decisions and investigate changes to the RCRC mechanism in light of the Task Force’s recommendations and Ofgem’s subsequent decisions and;

- to consider distributional impacts including to energy intensive users and vulnerable consumers.

3.1.18 The CMP308 Workgroup was recommenced in January 2021 in order to deliver against the Task Force's recommendation around who should pay Balancing Services Charges. The Workgroup is cognisant that the ESO will be raising other modifications to deal with the recommendations outlined around how the BSUoS Charge should be constructed.

3.2 CMP281 – 'Removal of BSUoS Charges from Energy Taken from the National Grid System by Storage Facilities'

3.2.1 CMP281 was raised by Scottish Power in July 2017 and aims to remove liability from storage facilities for Balancing Services Use of System (BSUoS) charges on imports. This modification was relinquished by Scottish Power in November 2018 and adopted by Engie. Both the previous and current proposer of this modification sit on the Workgroup for CMP308.

3.2.2 In terms of progress of the modification, the Industry were consulted on CMP281 in October 2019. The question as to whether the solution should encompass Supplier Volume Allocation as well as Central Volume Allocation had proved somewhat problematic. However, after discussions within the Workgroup, a SVA solution was developed to complement the CVA allocation, following discussions with the Authority.

3.2.3 CMP281 was implemented into the CUSC in April 2021 and the Workgroup have taken this modification into consideration throughout its findings.

3.3 Targeted Charging Review

3.3.1 The Targeted Charging Review (TCR): Significant Code Review (SCR) was an Ofgem-led project that assesses how residual network charges should be set and recovered in Great Britain, including BSUoS "Embedded Benefits" received by distribution-connected generators. In August 2017, Ofgem launched the TCR to address their concerns that the existing framework for residual network charges could lead to inefficient use of the network, leading to adverse impacts on consumers. Ofgem have confirmed that CMP308 does not fall into the scope of this work.

3.3.2 When this modification was raised by EDF Energy, concerns were expressed in industry as to whether this modification would have an overlap with the work within both the TCR and the then upcoming Balancing Services Task Force. Ofgem wrote to the CUSC Panel chair on 24 November 2018 advising that they believed the CUSC Panel and the proposer should consider discontinuing work on CMP308 until the outcome of the Balancing Services Task Force, the report of which would be considered closely within the work of the TCR¹⁸.

3.3.3 When the CUSC Panel considered this letter from the Authority at its meeting in November, it was made clear that they could not advise the proposer to withdraw and there was support from Panel members to continue work on CMP308, albeit not unanimously.

¹⁸ https://www.ofgem.gov.uk/system/files/docs/2018/11/cmp308_letter_on_continuation_of_the_mod.pdf

As such, the Workgroup has convened and progressed. The Workgroup has considered the TCR throughout its workings.

3.3.4 In December 2019, Ofgem published their final decision on the Targeted Charging Review¹⁹. Ofgem has decided that:

- i) Residual charges will be levied in the form of fixed charges for domestic and commercial demand users only.
- ii) The Transmission Generation Residual will be set at zero therefore transmission generators will no longer receive the current negative residual charge.
- iii) Balancing Services Charges will be charged to Suppliers on a gross basis, which will remove the “Embedded Benefit” for distributed generators.
- iv) A Second BSUoS Task Force will take place to consider who should pay Balancing Services Charges and how should the charges be recovered.

3.3.5 The Workgroup note that as a result of the Targeted Charging Review, [CMP333 “BSUoS – Charging Supplier Users on Gross Demand – TCR”](#) was proposed and was implemented in April 2021. The Workgroup have factored in the implementation of this modification to the work on CMP308.

4.0 Post First Workgroup Consultation Discussions

4.1 Consideration of the Responses

4.1.1 The Workgroup convened on 30 May 2019 to consider the outcomes and responses of the Workgroup Consultation. The consultation responses are documented in Annex 4 of this document. Several talking points in regard to the modification were raised and discussed at length. The Workgroup noted that during a period of much Industry change, to receive the volume of responses was encouraging and thanked all respondents for their input.

4.2 Retail Price Cap Issues raised in the first Workgroup Consultation

4.2.1 Please see commentary in Paragraph 2.4

4.3 Implementation – Impact of Contractual and Commercial Arrangements, and potential Gains and Losses because of CMP308

4.3.1 The Workgroup considered whether the proposed implementation timescales were correct, because various responses to the consultation suggested that both shorter and longer timescales would be more applicable. There was discussion held within the Workgroup in regards to whether 3 years was indeed a more feasible option, due to the likelihood of some suppliers having locked in contracts with costumers (especially in the I&C market) out to three years, and as such, may not have sufficient risk premia in those contracts to cover any shortfall or detriment occurring due to the implementation of this modification.

4.3.2 Whilst concerns of this nature were noted, some Workgroup members suggested firstly that 3-year contracts would not make up a significant proportion of fixed price contracts. It was also noted that contractual arrangements were not an issue unique in

¹⁹ [Ofgem Final Decision on Targeted Charging Review SCR](#)

their specificity to demand users and suppliers only, but that there would be issues also around generation contracts.

4.3.3 One Workgroup member commented that, in their opinion, conventional generation contracts would see gains and suppliers, or contracted end consumers see losses in the event of insufficient notice of the change being given. Under current arrangements, a forecast of BSUoS would be incorporated within the price between the supplier and the generator when the initial energy purchase took place. This Modification Proposal would mean that the Supplier is liable for the cost of the generation side of BSUoS, for which they believed an allowance had been factored into the price of the power they purchased. In their opinion and experience, this supply business Workgroup member believes that three year contracts are far from exceptional and are quite commonplace and, it is only 4 and 5 years out where the materiality of these contracts tails off. In their opinion, the suppliers will be locked in with contract reopening with customers unlikely for a number of reasons and similarly will not be able to reopen contracts with generation as mentioned previously.

The Workgroup member would be happy to share further analysis with Ofgem and believes that figures show the supplier windfall losses three years out would exceed the benefits quoted.

The majority of the Workgroup disagreed with this view as they believe that prudent market participants would factor in regulatory and other risks to contracts that far out to minimise their exposure.

4.3.4 One Workgroup member iterated their concern regarding what impact any implementation may have on cross border trade and any impacts on any contracts that may be in place in that area of the Industry. The rest of the Workgroup noted that whilst the EU Third Package arrangements recognise that different types of market organisation will exist within the wider internal market in electricity, they also acknowledge the need to reduce market distortions to deliver the full benefits of a competitive internal market in electricity. In the Workgroup members view, aligning the GB market arrangements with our European trading partners and other interconnected countries better facilitates an efficient functioning internal market in electricity. To that end, GB consumers will benefit from more competitive arrangements delivered through a wider fully functioning competitive market in generation. With sufficient lead time for implementation there should not be any impacts on any contracts that may be in place in that arena of the Industry, but the concern was noted by the Workgroup and this may be something Ofgem could look in to in the case of CMP308 being implemented.

4.3.5 When the CMP308 Workgroup reconvened after the outcome of the Second Balancing Services Charges Task Force, it took into account the Task Force's recommendation that there should be a two year notice period in regard to implementation. As such, the Workgroup are proposing implementation on 1 April 2023 in order to give the industry sufficient notice and time to adjust to the changes resultant of CMP308, and in line with the view indicated by Ofgem in its response to the Task Force's final report.

4.5 CMP201 and Consumer Impacts

4.5.1 Prior to Ofgem undertaking consumer analysis discussed in paragraph 5.4 of this document, concerns were expressed in some of the consultation responses and by two Workgroup members about the limited analysis presented on consumer impacts. Removing BSUoS from generation would reduce the GB generation cost stack and have an equivalent downward effect on wholesale prices. However, this would make GB generation more competitive and so would lead to increased 'domestic' generation

(reduced imports and increased exports) which would have an upward effect on wholesale price as more expensive marginal plant came on. In the opinion of two Workgroup members, whilst this upward effect on wholesale price would be less than the downward effect from the removal of BSUoS (i.e. wholesale prices would still be lower compared to the status quo), it would nonetheless benefit all GB generation and lead to additional generator profits and higher net consumer costs in the short term. In the opinion of two Workgroup members, Annex 13 of CMP201 Final Modification Report paragraphs 16-20 support this. However, the majority of Workgroup members believe this is mitigated by an appropriate implementation time.

4.5.2. In the opinion of two Workgroup members, in the longer term, these higher profits could lead to more investment and/or lower CM bids – potentially offsetting the short-term detriment. It was noted that CMP201 attempted to provide quantitative analysis for these short-term impacts.

4.5.3 The proposer has provided analysis, based only on historic data to avoid any breach of Competition Law, to show that the short-term impact referred to in CMP201 would only occur if the fall in the wholesale price was less than 95% of BSUoS. However, it was noted by two Workgroup members that the summary of the analysis produced for CMP201²⁰ estimated that, due to the effect described above, the net fall in wholesale price would be around 50% of the level of BSUoS removed from Generation.

4.5.4 However, the majority of Workgroup members considered that this would be an unlikely outcome due to the competitive nature of the GB wholesale electricity market and expect most if not all of the BSUoS cost reduction to be passed through to GB consumers in GB wholesale electricity market prices.

4.5.5 The consumer analysis commissioned by Ofgem, and undertaken by Frontier Analysis, provides an updated, more complete view than the CMP201 analysis, and this was recognised by the Workgroup in its final meeting. A summary of this analysis is available in Paragraph 5.4 of this document.

4.6 Credit Cover Issues

4.6.1 It was highlighted within the Workgroup that up until this point, credit requirements were not clear within the analysis undertaken. It was suggested by one Workgroup member that it would be effective to work out what the total magnitude of the costs would be. It was also argued however that this could be over accounted for, but it wouldn't skew it one way or the other.

4.7 Revenue from BSUoS actions and Ancillary Service Provisions

4.7.1 The working group considered the interaction between market participants receiving revenue from BSUoS actions taken to balance the system, ancillary service provisions, and whether this receipt of payment would alter the risk premia of generators in relation to how this is managed by suppliers. The WG felt that there was insufficient evidence to demonstrate that this was the case.

5.0 Workgroup Discussions – Re-establishment of workgroup

²⁰ See Annex 13 of CMP201 Final Modification Report, specifically the table in A13.22

5.1 Re-establishment of Workgroup

5.1.1 In November 2019, CMP308 was placed on hold until the Second Balancing Services Charges Task Force concluded. Following the Output of the Second Balancing Services Charges Task Force, the CMP308 Workgroup reconvened to complete work on the modification, on the understanding that the recommendations of the Task Force were to be implemented using the CUSC modifications Process. CMP308 would be used as a vehicle for delivery against the Task Force's recommendation that Final Demand should pay Balancing Services Charges.

5.1.2 The ESO considered combining the Workgroups for CMP308 and CMP361 as the legal text changes for both modifications impact the same section in the CUSC (14.29 & 14.30). Upon further consideration it was realised that the CMP308 legal text solution could be done separately from CMP361. The ESO suggested to run the two Workgroups independently and submit CMP308 to the Authority once complete to provide early notice and clarity to impacted stakeholders.

5.2 Terms of Reference

5.2.1 The Workgroup recognised that post developments which occurred during its period on hold, that additional Terms of Reference, and subsequently a second Workgroup Consultation, would be required. These additional Terms of Reference were:

- Take into account the work undertaken on CMP281, CMP333 and the Targeted Charging Review
- Cross Code Interactions, in particular interactions with the BSC driven by Data Requirements
- Consideration of definition of Final Demand, in reference to CMP261 and BSUoS billing
- Consideration of Ofgem's view on the Second Balancing Services Charges Task Force recommendation of 1st April 2023 implementation and any further views expressed by Ofgem on the future of BSUoS Charging

5.2.2 CUSC Panel agreed that these Terms of Reference should be added, and the Workgroup accepted this. The updated Terms of Reference are available at Annex 2 of this document.

5.2.3 The Workgroup is cognisant that these Terms of Reference are material, and as such it would be prudent to consult on this modification for a second time. As such, this document provides Industry with the opportunity to input on CMP308 taking into account the wider developments in industry which have occurred since the previous Workgroup Consultation.

5.3 Implementation Date – Removal of Proposed Alternatives

5.3.1 Prior to the recess of the CMP308 Workgroup, there had been concern from several Workgroup members around the implementation date of CMP308, and whether there would be enough time afforded for industry to adjust to the change, both from the

perspective of risk premia being removed from the wholesale price, and whether suppliers would be able to allow for this in future contracted positions with end consumers. Several Workgroup members indicated a desire to raise alternatives which would give sufficient lead time for the market to adjust.

5.3.2 The Second Balancing Services Charges Task Force recommended that 2 years notice of this change should give the market adequate time to adjust. The Workgroup acknowledged this by majority and stipulated that they would work towards CMP308 being implemented in April 2023, which gives over 2 years notice from the conclusion of the Second Balancing Services Charges Task force.

5.3.3 Subsequently, the proposed alternatives which would have given either 2 or 3 years lead time were removed for consideration by the Workgroup and Workgroup members felt that this issue had been negated.

5.4 Analysis

5.4.1 The Workgroup noted that Ofgem had stated in their response to the Second Balancing Services Charges Task Force that there would be quantitative analysis in regard to the impact and costs/benefits of CMP308. Ofgem advised the Workgroup that the procurement process was underway to appoint external analysts to undertake this work, with confirmation on this due in the coming months, and work to start on this in April 2021. The analysis was undertaken by Frontier Economics and can be found in Annex 6 of this document. The Workgroup noted the validity of the hypothesis put forwards in the initial proposal from EDF.

5.4.2 Ofgem announced the conclusion of this analysis undertaken by Frontier Economics on 07 July 2021. The Analysis shows that based on the analysis undertaken, that recovering BSUoS costs entirely from demand is likely to reduce overall system costs and customer costs. The analysis highlighted that system benefits “principally arise due to levelling the playing field between transmission-connected generation and other sources of supply, namely, distributed generation and interconnection”²¹, and that consumer benefits “principally arise because the increase in the BSUoS demand charge is more than offset by reductions in wholesale prices and low carbon support payments”²².

5.4.3 The report also found that CMP308 (if implemented) should result in an overall reduction in both system and customer costs. Under steady progression, the benefits in £s billion are highlighted in the below table.

Workgroup consultation summary

5.4 Analysis

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²¹ WIDER SYSTEM AND DISTRIBUTIONAL IMPACTS OF RECOVERING BALANCING SERVICES COSTS FROM DEMAND, July 2021, Frontier Economics, p47. Found at Annex 6 of this document.

²² Ibid

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5.4.3 The report also found that CMP308 (if implemented) should result in an overall reduction in both system and customer costs. Under steady progression, the benefits in £s billion are highlighted in the below table.

| Item | System Cost Benefits | Consumer Benefits |
|-------------------------|----------------------|-------------------|
| Steady Progression | £0.49bn | £0.37bn |
| Customer Transformation | £0.29bn | £0.32bn |

5.4.4 The analysis also highlighted that in regard to system benefits, under a “steady progression” scenario that “*increases in transmission connected CCGT generation are more than offset by reductions in generation from interconnectors and small distribution connected peaking generators. There is a similar dynamic under the Consumer Transformation scenario in the early years of the period, although the impacts are diminished in later years given the much lower levels of CCGT generation in the Counterfactual in this Net Zero consistent scenario. In these years, the effect of the reform is to increase transmission-connected offshore and onshore wind, resulting in higher exports*”²⁵.

5.4.5 Under the same steady progression scenario, it was noted that BSUoS costs would likely rise by 50-60% in the early years post implementation, however that this would be offset by the resultant reduction in electricity wholesale prices and low carbon support costs. It was also noted in the analysis however that these consumer benefits may not benefit all consumers equally, with less benefit to those consumers with a flat demand profile.

5.4.6 The Workgroup took this analysis into consideration at its final meeting on 15 July 2021. The Workgroup discussed this analysis and noted that the analysis supported the initial hypothesis of the proposer that there would be an overall system and consumer benefit to levying BSUoS on final demand customers.

5.4.7 The Workgroup noted BEIS released a consultation on Contracts for Difference in January 2021²⁶, entitled “*Contracts for Difference for Low Carbon Electricity Generation*”.

²³ WIDER SYSTEM AND DISTRIBUTIONAL IMPACTS OF RECOVERING BALANCING SERVICES COSTS FROM DEMAND, July 2021, Frontier Economics, p47. Found at Annex 6 of this document.

²⁴ Ibid

²⁵ Ibid

²⁶ https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/93763/5/changes-supply-chain-plans-cfd-contract-condoc.pdf

This document stated “The government wishes to advise stakeholders that, in due course, it may need to consider amending the CfD contract to reflect possible future changes in how Balancing Services Use of System (BSUoS) charges are paid. The Final Report of the Second Balancing Services Charges Task Force, published on 30 September 2020, recommended to Ofgem that transmission-connected generation should no longer pay BSUoS charges. If implemented, this change could have implications for current and future CfD generators connected to the transmission system who receive an adjustment in their strike price to reflect annual changes in the balancing system charges for which they are liable. A final decision is not expected until later in 2021. The government is therefore not proposing any changes to the CfD contract at this stage but will keep developments under review. Any proposed contract changes would be subject to consultation in due course”²⁷.

5.4.8 It was also noted by the Workgroup that in Ofgem’s 07 July 2021 covering letter for the analysis undertaken by Frontier Economics they stated, ‘*Our open letter in December 2020 noted that “based on the information available at this time, our view is that April 2023 would be an appropriate target for this element of the reform.” This view still stands*’ reinforcing the expectation of implementation in 2023.

5.4.9 The Workgroup also noted that the analysis suggests that the changes may have impact flows over the interconnectors as a result of CMP308. This can be found in Annex 6 of this document.

5.5 Consideration of Final Demand

5.5.1 In their consideration of Final Demand, the Workgroup noted several industry developments. Firstly, the Workgroup considered the definition of Final Demand as given in CMP334, which defined Final Demand as “**electricity which is consumed other than for the purposes of generation or export onto the electricity network**”.

5.5.2 The Workgroup also took note that Ofgem, in their 2019 decision letter on the Targeted Charging Review²⁸, set out the rationale for residual network charges (which are also cost-recovery charges), being paid by Final Demand consumers.

5.5.3 The consideration taken to Final Demand by the Workgroup also involved further discussion and recognition that the implementation of CMP333 (charging suppliers BSUoS based on Gross Demand²⁹), introduces the principle of gross demand charging to BSUoS, and that any CMP308 solution should follow on from CMP333. A Workgroup member conducted some analysis on how the solution for CMP308 could look after CMP333 is implemented. This is included in Annex 7. Please see below figure.

²⁷ Ibid, p4

²⁸ [Ofgem Final Decision on Targeted Charging Review SCR](#)

²⁹ <https://www.nationalgrideso.com/industry-information/codes/connection-and-use-system-code-cusc-old/modifications/cmp333-bsuos>

| <u>Current Situation (Baseline)</u> | Net Direction of Trading Unit/Base Trading Unit | |
|-------------------------------------|---|------------------------|
| | Offtaking (importing) | Delivering (exporting) |
| Direction of BM Unit | | |
| Offtaking (importing) | Pays | Credit |
| Delivering (exporting) | Credit | Pays |

CMP333 and CMP308

| Type of BM Unit | Direction of BM Unit | Basis of charging | CMP308 |
|--|---|-------------------|--|
| Transmission Connected Generators | | As Baseline* | No liability |
| Embedded Generators with BEGA and not Exempt Export BM Units | | As Baseline* | No liability |
| Transmission Connected Demand | | As Baseline* | Pays on Final Demand |
| DNO Connected Demand Sites (Supplier BM Units) | BM Unit Gross Demand is positive (gross import)** | Pays | Pays on BM Unit Gross Demand as per CMP333, minus station load for embedded generation in Supplier BM Units **** |
| | BM Unit Gross Demand is zero | No liability | |
| Exempt Export BM Units | Offtaking (importing) | Pays*** | No liability |
| | Delivering (exporting) | No liability*** | |

Notes:

* BM Unit pays or receives credit based on its direction compared with that of its Trading Unit

** Gross Demand (Import) data as provided to ESO in the TNUoS report as set out in Table 7 of Section V of the BSC

*** Consistent treatment to Supplier BM Units

The orange cells indicate arrangements that change under this proposal

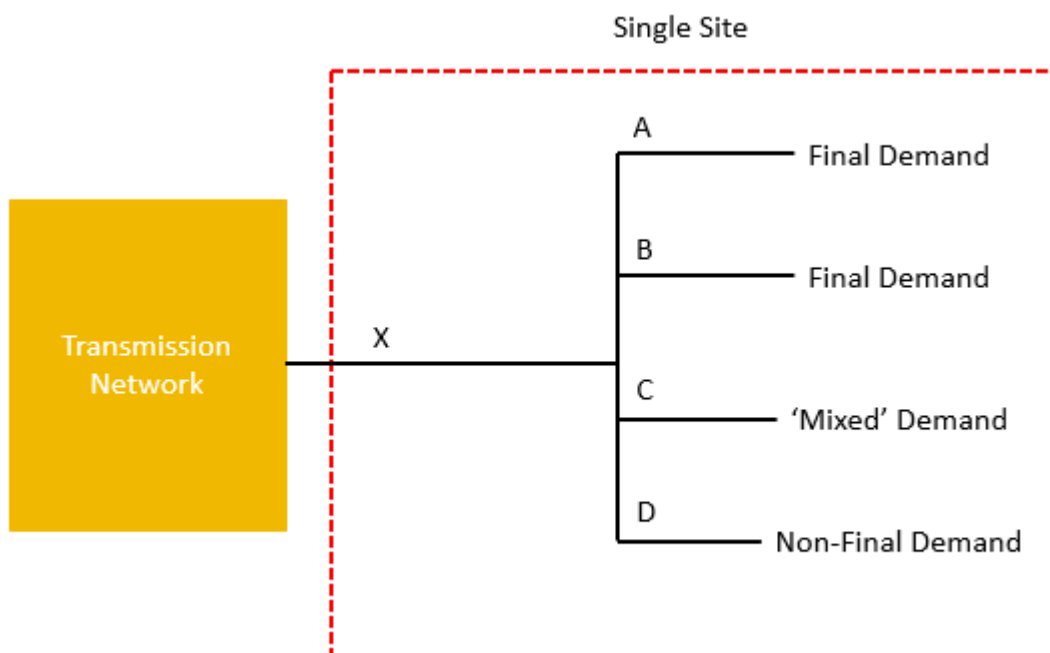
5.5.4 The Workgroup also gave consideration in its discussions around a solution to the implications of CMP281, and associated BSC Modification P383 in regard to BSUoS charges being exempt for storage. The ESO noted that this solution introduces declaration process to demonstrate exemption from BSUoS liability and suggested that this could be extended to final demand.

5.5.5 The Workgroup is also cognisant that there will be an upcoming TNUoS Demand Residual and Complicated Sites CUSC modification (CMP363/4) to addresses treatment of complex sites and metering configurations, reviewing and extending the declaration process introduced under CMP281/319. It was noted that, by using the existing BMU charging approach and CUSC Final Demand definition, the CMP308 solution is expected to align with this modification.

5.5.6 The ESO suggested (in regard to the legal text for the original solution) a minimal change to CUSC legal text to allow CMP308 to be submitted for decision ahead of other BSUoS Reform mods, which would involve reusing/ amending definitions introduced for CMP333 in a final demand context: SGQM & TQM. The ESO have noted feedback from the Workgroup in regard to this and are reviewing this suggestion.

5.5.7 The ESO also provided a Case Study in regard to this.

The below figure aims to test whether the application of charging BSUoS to Final Demand BMUs is consistent regardless of the metering configuration of the example site. The Workgroup discussed that for the purpose of BSUoS charging Non-Final Demand on a mixed site could only be excluded if it could be identified as a Non-Final Demand BMU. Otherwise, mixed sites will be charged BSUoS on the boundary point (point X in the below figure).



5.6 Data Requirements/Potential BSC Modification

The Workgroup discussed how to obtain and apply Final Demand Data for the purpose of BSUoS billing. Final Demand has been introduced to the TNUoS demand residual through CMP344. Applying final demand to BSUoS is an opportunity to align BSUoS and TNUoS billing. At this moment discrepancies have become apparent that require additional change and processes to be introduced to obtain the final demand data required for BSUoS billing. TNUoS demand residual Final Demand data is currently not sufficient for the purpose of BSUoS billing as the residual is charged on a £ per site per day basis as a banded charge. BSUoS is charged on a BMU level and requires half hourly data.

We expect that over time the Final Demand application to BSUoS and TNUoS charging will converge.

5.6.1 Overview of Discussions on Data and Final Demand

5.6.1.1 Applying Final Demand to BSUoS charging required clarification on how the definition is applied. Charging Final Demand for BSUoS purposes means that BMUs are charged on a gross volume basis and any metered volumes associated with SVA facilities classed as Non-Final Demand with a valid Declaration (Electricity Storage Facilities, Electricity Generation Facilities, Eligible Service Facilities) or metered volumes associated with CVA BMUs with a valid Declaration (Electricity Storage Facilities, Electricity Generation Facilities, Eligible Service Facilities) are excluded.

5.6.1.2 A range of options were discussed on which processes may be required to implement CMP308. One question discussed was which party is best suited to know whether a site or BMU is Final Demand/ Not Final Demand.

Suppliers are liable for paying BSUoS bills on behalf of their portfolio and have an interest to understand and exempt Non-Final Demand sites from the charge. DNOs have an enduring relationship with sites that doesn't end when a customer changes supplier.

Often, a supplier will inform the DNO that a site/ facility does not fall under Final Demand.

5.6.1.3 The proposal of the Workgroup was that SVA Non-Final Demand sites should be declared via the supplier and the data extracted by Elexon either via a supplier declaration or by mapping the DNO line loss factor classes to metering systems to remove Non-Final Demand volumes from supplier BMUs that are then used by the ESO to bill BSUoS.

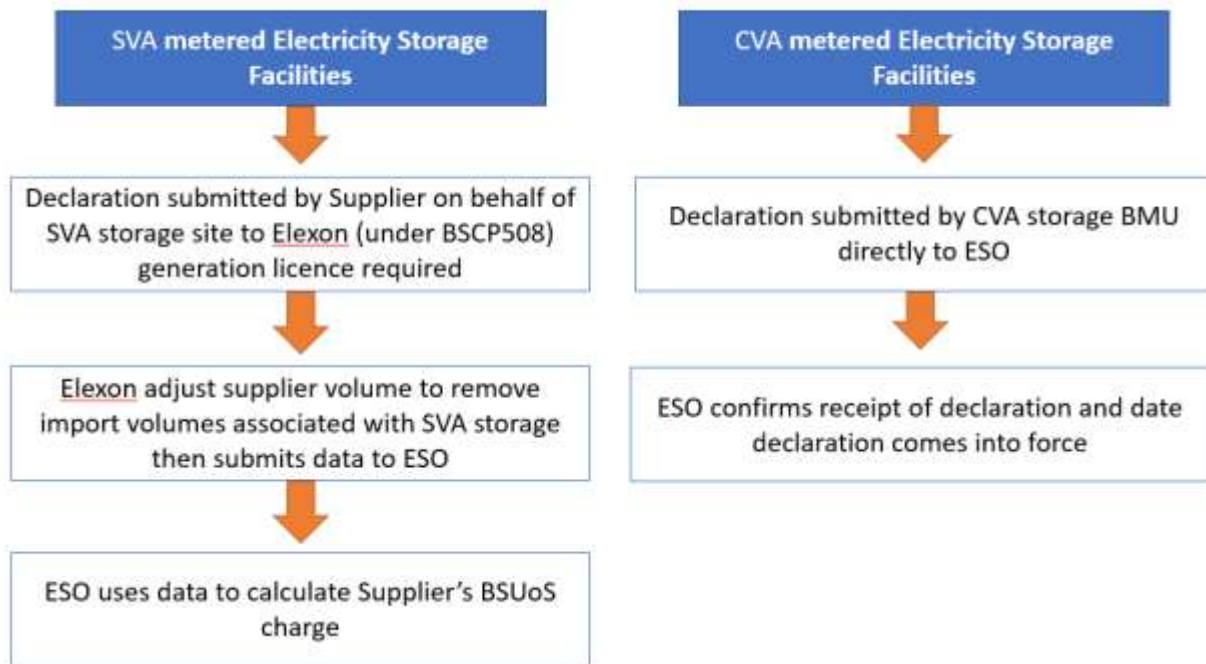
5.6.1.4 On CVA the ESO receives metered data by BMU level but cannot currently identify which BMUs are Final Demand and which aren't. A Declaration process for CVA has been created in CUSC Section 11 for TNUoS demand residual billing and may be utilised for BSUoS billing as well. It is worth noting that CVA may be in scope of the new BSC modification being raised in regard to this issue.

5.6.2 Obligations for Declarations

5.6.2.1 Declarations to exempt eligible sites from network charges are an existing concept.

The below graphs show an overview of the storage declarations to be introduced on the 1st of April 2021 to implement CMP281 & P383.

This process is introduced as part of CMP281 & the equivalent BSC mod P383 (go live April 2021)



5.6.2.2 The CUSC definition of Declaration extends to Electricity Generation Facilities and Eligible Services Facilities. A template for these types of sites is yet to be completed.

5.6.3 Obtaining Settlement Data from BSC and associated modification

5.6.3.1 The Workgroup agreed that to exclude eligible Final Demand sites' metered volumes from supplier BMU volume a BSC modification is required to introduce new processes that allow Elexon to identify, aggregate and exclude applicable metered volumes from BSUoS billing. A BSC modification has been raised by the ESO to create and implement these required processes in time for the 1st of April 2023. The Workgroup was satisfied that this addresses the outstanding data clarifications.

5.6.4 Validation and Performance Assurance (Distribution)

5.6.4.1 The Workgroup sought guidance on how performance assurance worked in the distribution world. It was highlighted that BSC change P402 'Enabling reform of residual network charging as directed by the Targeted Charging Review' is currently with the Authority for decision. The BSC Panel has recommended the approval of the P402 Alternative Modification, which will require distributors to send monthly billing reports and an annual tariff setting report direct to the ESO, and therefore does not rely on Elexon, BSC Systems or agents (Elexon will provide support in the identification of CVA Registrants).

5.6.4.2 The monthly billing report will contain a daily count of Final Demand Sites and unmetered supplies (UMS) consumption, whilst the annual tariff setting report will contain 12 months actual metered consumption data only. For the avoidance of doubt, the monthly billing report will not contain metered consumption data. All data will be reported by

charging band: one domestic; sixteen non-domestic (eight LV (four where a maximum import capacity is used and four where not), four HV and four EHV); and one UMS.

5.6.4.3 The ESO will therefore only receive data for Final Demand Sites and UMS that will be eligible for a residual charge, and as import consumption is only needed to invoice UMS (as it will be recovered on a p/kWh basis), metered consumption for a Final Demand Site is only needed on an annual basis for TNUoS to allocate the residual to charging bands.

5.6.4.4 Other than the creation of new LLFCs, there is no change to industry processes and therefore systems for the purpose of DUoS billing. P402 will require system changes to facilitate the new industry process to provide the ESO with the billing report and tariff setting data.

6.0 Workgroup Alternatives

6.1 Workgroup Alternative - Engie

6.1.1 During the initial Workgroup consultation process, 1 alternative proposal was raised by Engie. Engie highlighted that “BSUoS is in principle a cost recovery charge as such the recovery of the charge should not directly influence the actions of the parties over whom the charge is recovered the current methodology recovers the total cost (£) charge over half hour periods and is converted to a MWh charge by dividing by the demand. This leads to a higher (£/MWh) charge during lower demand periods this has the effect of reducing demand further due to high BSUoS”.

6.1.2 Engie further highlighted that section 2.6 of this document provides further details of the intraday effect of the current arrangements. The proposer of the alternative states that “the original proposal without this modification would have the unintended consequence of doubling this effect and potentially leads to an increase in BSUoS as the System Operator seeks to mitigate the effect of lower demand periods on system stability and security.

6.1.3 As such, Engie raised an alternative that is identical to the original proposal, however this alternative would charge BSUoS at a flat daily rate (£/MWh) as opposed to the current half hour rate on a midnight to midnight basis. Under this alternative, the same daily amount would be recovered from demand but at a flat daily rate.

6.1.4 The proposer highlighted the potential issues in their perception to the working group. The working group considered the alternative to have merit, based on an unintended consequence to overnight storage.

6.1.5 Following the raising of modification CMP361, it was decided that the outcome sought by this alternative would be covered under this workstream, and as such the proposer of this alternative withdrew support following discussion within the Workgroup.

7.0 Second Workgroup consultation summary

7.1 Background

7.1.1 The second Workgroup Consultation was held by the Workgroup as a result of several parameters of the modification changing as a result of the outcomes of the Second Balancing Services Charges Task Force as previously highlighted in this document.

7.1.2 The consultation ran from 01 April 2021 to 26 April 2021, and there were 11 responses received from Industry. These responses are available to view in full at Annex 5 of this document.

7.1.3 On the whole, the majority of responses indicated support for the modification, and that the modification better met the CUSC objectives in question. Whilst there was support for the modification in its latest form, there was a minority of respondents who indicated that they thought that the proposed 2023 implementation of the modification was too soon, and indicated that at 2024 dates would be preferable, giving the market more time to adjust to the change. In terms of implementation, however, there was broad support for the 2023 implementation date.

7.1.4 When asked to provide commentary on the change, respondents highlighted several areas where they thought the modification brought about a positive change. These include but are not limited to:

- i) the modification was in line with the TCR principles;
- ii) the modification would bring about consumer benefit;
- iii) removing embedded benefits and levelling the playing field.

7.1.5 However, some respondents highlighted that there were potential considerations for the Workgroup to consider, which included but were not limited to:

- i) balancing services charges should be attributed to those who cause actions to be taken;
- ii) impacts on I&C supplier contracts already agreed out to three years
- iii) alignment of implementation approaches with other modifications, such as CMP281.

7.1.6 A respondent indicated within their response that they would like to see the Workgroup formulate an alternative for 2024 implementation but decided that this was not necessary when the Workgroup explained that implementation timescales were within the gift of the Authority.

7.1.7 Parties were also asked to comment on the Workgroup's discussions post Second Balancing Services Charges Task Force. Many responses indicated that the Workgroup had considered the findings of the Task Force and had remained in scope of the recommendations made. There was agreement in consultation responses that the discussions had been robust and comprehensive.

7.1.8 The consultation also invited respondents to comment on the group's discussions on Final Demand Data. Whilst a number of responses indicated that suggested solutions were appropriate and proportionate, some respondents raised issues around declarations, and highlighted a need to be mindful of CMP281. Concerns were also highlighted around the SVA Final demand process needed to be solidified. The respondents did not raise any issue with the proposed legal text.

8.0 Post Second Workgroup Discussions

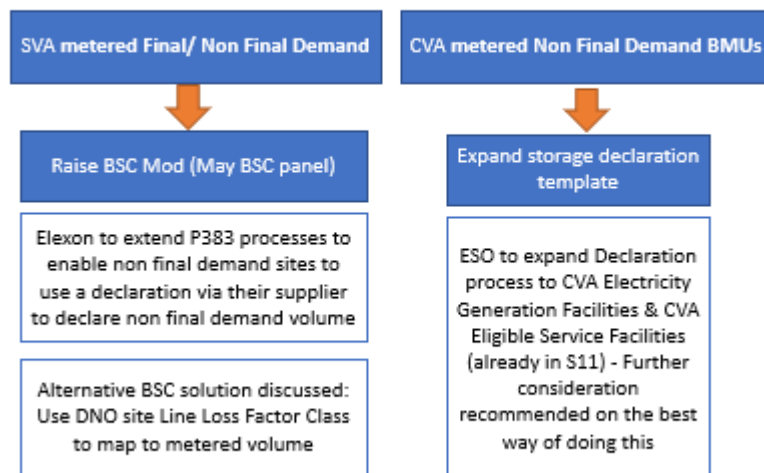
8.1 Discussions around the Solution

8.1.1 The Workgroup considered further suggestions around the solution put forward by the ESO. The ESO suggested that all CUSC Parties acting as Generators (unless excluded by 14.30.6 of the CUSC) and Suppliers (for the avoidance of doubt excluding all BMUs associated with either Interconnectors or Virtual Lead Parties) are liable for Balancing Services Use of System charges based on their Final Demand taken from the National Grid system in each half-hour Settlement Period.

8.1.2 It was suggested that an Exemption from Final Demand determined through existing definitions of Declaration, Eligible Generation Facility, Eligible Storage Facility and Eligible Service Facility (Site level for SVA, BMU level for CVA) would be the best way to achieve the intent of the modification. Final Demand volume would be determined on a gross basis (TCR principle implemented through CMP333), with BMU level Final Demand = Sum of all imports at a BMU level – eligible metered Non-Final Demand imports.

8.1.3 In terms of the data solution, the ESO presented the below:

Data Solution



8.1.4 This led to BSC modifications P419 'Enhanced Reporting of Demand Data to the NETSO to facilitate BSUoS Reform³⁰' being raised at May 2021 BSC panel to support the implementation of CMP308 and other BSUoS reform modifications.

8.2 Complex Sites

8.2.1 The Workgroup further considered complex sites and associated modifications. The Workgroup noted the existing declaration process for complex sites what was implemented as part of CMP281. The Workgroup also noted that this process was the basis used for declarations under CMP344 also.

8.2.2 The ESO advised members that CMP363 (TNUoS Demand Residual charges for transmission connected sites with a mix of Final and Non-Final demand) intends to use same declaration template(s) and will extend current CVA Storage Declaration template to

³⁰ <https://www.elxon.co.uk/mod-proposal/p419/>

CVA Eligible Generation Facilities and CVA Eligible Service Facilities. A decision on this modification is expected in Autumn 2021.

8.2.3 Case studies for different sites were considered as part of these discussions. These case studies are available at Annex 8 of this document.

9.0 Legal text

The legal text for this change can be found in Annex 3.

What is the impact of this change?

With sufficient lead time for implementation, our modelling indicates that the consumer impacts in the short-term are likely to be neutral.

In the long run removal of the identified distortion in the wholesale market would ensure more effective competition which is in consumers' interests: i.e. will ensure dispatch and investment in new generation is more efficient.

- Demand BSUoS will be less than double of current BSUoS £/MWh rates as interconnector flows to GB do not pay BSUoS (i.e. split of BSUoS between demand and generation is not currently 50:50), i.e. consumers' neutral short term.
- Sufficient lead time of 2 years after a decision is made³¹ to ensure:
 - wholesale market adjusts to the removal of BSUoS from generation
 - time for consumers and suppliers to adjust for change.
- Benefit of avoiding the need to factor BSUoS risk into generation/wholesale market costs, instead being covered within more predictable demand volumes.

Workgroup vote

The workgroup met on 15 July 2021 to carry out their workgroup vote. The full Workgroup vote can be found in Annex 9. The table below provides a summary of the Workgroup members view on the best option to implement this change.

Code Administrator Consultation summary

The Code Administrator Consultation was issued on the 2 August 2021 and closed at 5pm on 31 August 2021 with 14 non-confidential responses and 1 confidential response received. A summary of the 14 non-confidential responses can be found in Annex 10, and the full responses can be found in Annex 11. The key points were:

- Majority of respondents (11 out of 14) supportive of the change primarily as this will provide a more level playing field for GB generators when compared with

³¹ Following the Second Balancing Services Charges Task Force the implementation date is now expected to be 1st April 2023

their EU counterparts and removing the distortion in the wholesale market would ensure more effective competition which is in consumers' interests;

- Majority of respondents (10 out of 14) supported implementation of 1 April 2023 as provides sufficient notice for impacted parties and industry expectation is that this will be implemented on 1 April 2023. Majority of respondents (10 out of 14) noted that interactions that CMP308 has with the proposed change to move to a fixed ex-ante charge (CMP361) and Ofgem's price cap methodology. Some of these respondents argued that CMP361 and updating the Ofgem's price cap methodology should be implemented at the same time as CMP308 to realise the full benefits of CMP308 and reduce risk for suppliers in particular with one respondent raising the concern that CMP308 could create windfall gains for GB Generators if implemented too quickly. However, some respondents were keen that CMP308 is implemented on 1 April 2023 regardless;
- One respondent identified a potential future change to extend the CMP308 solution to include behind the meter generation by removing the final BSUoS Embedded Benefit and aligning final demand with final consumption; and
- No changes to the legal text were proposed.

Panel recommendation vote

The Panel met on the 14 September 2021 to carry out their recommendation vote.

They assessed whether a change should be made to the CUSC by assessing the proposed change against the Applicable Objectives.

Vote 1: Does the Original facilitate the objectives better than the Baseline?

Panel Member: **Andy Pace**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|----------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Neutral | Neutral | Neutral | Yes | Yes |

Voting Statement

CMP308 implements the recommendations of the Second BSUoS Task Force by recovering BSUoS from demand customers only. This change modification removes a market distortion between transmission and distribution connected generation where only transmission connected generation currently pay the BSUoS charge. This modification also removes a distortion between GB transmission connected generation and European generators who compete via interconnectors and therefore do not pay BSUoS. Given the large increase in interconnector capacity going forward, we believe it is increasingly important that this anomaly is addressed.

We accept the impact analysis undertaken by Ofgem that demonstrates that the increased BSUoS charges incurred by consumers will be offset by a fall in wholesale prices. However, we request that if this modification is implemented, Ofgem undertakes a review to check whether the expected reduction in wholesale prices is equivalent to the additional cost of BSUoS to consumers and that consumers have not been disadvantaged by this modification.

We assess the proposed solution as better meeting applicable objective (a), as it levels the playing field between transmission and distribution connected generators and GB and EU generators. The solution is also positive against applicable objective (e), as it facilitates greater efficiency in the implementation and administration of the use of system charging methodology.

Panel Member: **Cem Suleyman**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Neutral | Yes | Yes | Yes | Yes |
| Voting Statement | | | | | | |
| I believe that CMP308 better facilitates the Applicable CUSC Objectives for the same reasons provided by the Proposer. | | | | | | |

Panel Member: **Garth Graham**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Yes | Neutral | Yes | Neutral | Yes |
| Voting Statement | | | | | | |
| <p>The Original proposal, raised in October 2018, sets out the benefits against the Applicable CUSC Objectives and I broadly concur with the views expressed there in respect of (a), (b) and (d).</p> <p>There has, over the intervening three years or so, been very detailed deliberations and examination both within the CMP308 Workgroup as well as the Ofgem facilitated 2nd BSUoS Task Force on the pros and cons of the proposition that BSUoS charges should no longer be levied, in part, (50%) upon (GB) Generator Users but should, instead, be applied to Demand Users only (from 50% to 100%).</p> <p>The Workgroup Report, along with many of the responses to the Workgroup and Code Administrator Consultations, set out comprehensively the detailed rationale for supporting this Original change proposal (when compared to the Baseline) and for the sake of brevity I shall refrain from repeating that detail here.</p> <p>I conclude by saying that, having taken that information into account, CMP308 Original better facilitates competition (a), better facilitates cost reflective charging (b) and better facilitates compliance with the Electricity Regulation (d).</p> <p>In respect of Applicable Objectives (c) and (e) the Original is, in my view, neutral.</p> <p>Finally, with respect to implementation, I'm mindful that this proposal was raised in the autumn of 2018 and that the implementation date (some four and a half years later) of spring 2023 has been well sign-posted to Users and, in any event, since early 2021 (if not before). Thus, in my view, a 1st April 2023 implementation date has been foreseeable by Users for a considerable period of time and is thus eminently sensible, reasonable and rationale.</p> | | | | | | |

Panel Member: **Grace March**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Yes | Neutral | Neutral | Yes | Yes |
| Voting Statement | | | | | | |
| <p>This modification facilitates competition between transmission-connected and embedded generation in GB and between generation in GB and European markets, as interconnected markets do not charge similar fees to generation.</p> <p>In line with the conclusion of the Second Balancing Services Task Force, BSUoS is not a signal that generators forecast with any degree of reliability, nor act on. This modification will remove 'noise' from the wholesale market. This will increase the visibility of genuinely cost-reflective signals, so encourage suitable investment and allow for more efficient dispatch as the wholesale prices will be based more on Short Run Marginal Cost of generation technologies and not commercial decisions about potential BSUoS costs. As BSUoS is cost recovery, recovering the revenue in the least distortive way will improve overall cost-reflectivity of the charging methodology.</p> <p>Analysis by Frontier/LCP supports the Workgroup's opinion that reduced system costs and reduced wholesale prices will outweigh the increase in BSUoS on the smaller charging base.</p> <p>Cost recovery from Final Demand is the most efficient method and the proposed solution aligns BSUoS with TNUoS cost recovery (the TDR), so makes the charging methodology more internally consistent.</p> | | | | | | |

Panel Member: **Joe Dunn**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Neutral | Neutral | Neutral | Yes | Yes |
| Voting Statement | | | | | | |
| <p>Positive against ACO (a), as playing field between T and D generators as well as GB and EU generation is levelled.</p> <p>Positive against ACO (e) as improved alignment between BSUoS and TNUoS terminology.</p> | | | | | | |

Panel Member: **Jon Wisdom**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Neutral | Neutral | Neutral | Neutral | Yes |
| Voting Statement | | | | | | |
| <p>The updated original solution for CMP308 seeks to align with the recommendations of the Second BSUoS Task Force, and Ofgem's support of those, that BSUoS should be</p> | | | | | | |

paid by demand only, and the principles introduced through the Targeted Charging Review for Final Demand should be applied as far as possible.

The solution is positive against objective (a) , as it removes a potential distortion between transmission and distribution connected generators as well as GB and EU generators by removing the BSUoS liability from transmission connected generators. As noted in the analysis produced by Frontier, this can also deliver significant consumer benefits.

Panel Member: **Mark Duffield**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Neutral | Yes | Neutral | Neutral | Yes |
| Voting Statement | | | | | | |
| Given Ofgem's conclusions that Balancing Services Use of System Charges are to be considered a cost recovery charge and cannot be used to incentivise more efficient system use, it is reasonable to conclude that they should be levied solely upon a suppliers gross demand position. CMP308 therefore better facilitates Applicable Objective A. Also by implementing the Ofgem direction from the Transmission Charging Review it better facilitates Applicable Objective C. | | | | | | |

Panel Member: **Paul Jones**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Neutral | Neutral | Neutral | Yes | Yes |
| Voting Statement | | | | | | |
| Removes charging distortion where transmission connected generation pays BSUoS, but distributed generation/storage and cross border trades do not, thereby improving competition in the wholesale market. It is more efficient to recover balancing costs from customers directly via their supplier, rather than via generators, through energy and balancing markets, to suppliers and then customers. | | | | | | |

Panel Member: **Paul Mott**

| | Better facilitates AO (a)? | Better facilitates AO (b)? | Better facilitates AO (c)? | Better facilitates AO (d)? | Better facilitates AO (e)? | Overall (Y/N) |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|
| Original | Yes | Neutral | Yes | Neutral | Yes | Yes |
| Voting Statement | | | | | | |
| This mod, if passed (as has been flagged for quite a long time as a policy direction... CMP308 in essence implements one of the recommendations from the Second BSUoS Task Force), would remove the existing charging distortion which results from transmission connected generation paying BSUoS, which continental generators accessing our market via interconnectors are exempt from. There would thus be an improvement in competition in the wholesale market. It is, anyway, more efficient to recover balancing costs from customers directly via their supplier, rather than indirectly via generators. Ofgem's cost benefit analysis demonstrates how this change can be of benefit overall to consumers, exhibiting a positive entire NPV. Ofgem's analysis was based on today's "unfixed" BSUoS. The benefits would be even greater if BSUoS were | | | | | | |

fixed, as another mod enjoying very wide support, and direction-of-policy support indications, would cause to come to pass. Another part of the benefit, other than the distortion from interconnected generation imports, lies in removal of the distortion in BSUoS charge between embedded and transmission-connected generation. This change will also simplify the charging and billing arrangements, leading to sleeker and cheaper administration. As to developments in transmission, c, as interconnection capacity increases considerably, the effect of the market distortion between GB and continental generators will increase unless 308 is passed. CMP308 takes account of this development and will prevent the existing distortion from growing in its effect.

Vote 2 – Which option is the best?

| Panel Member | BEST Option? | Which objectives does this option better facilitate? (If baseline not applicable). |
|---------------|--------------|--|
| Andy Pace | Original | a), e) |
| Cem Suleyman | Original | a), d), e) |
| Garth Graham | Original | a), b), d) |
| Grace March | Original | a), b), e) |
| Joe Dunn | Original | a), e) |
| Jon Wisdom | Original | a) |
| Mark Duffield | Original | a), c) |
| Paul Jones | Original | a), e) |
| Paul Mott | Original | a), e) |

Panel conclusion

The Panel, unanimously recommended that the Proposer's solution should be implemented.

When will this change take place?

Implementation date

1st April 2023

Date decision required by

As soon as possible after the Final Modification Report is submitted

Implementation approach

In alignment with the Second Balancing Services Charges Task Force Deliverable 1 recommendation it is proposed that CMP308 is implemented with an effective date of 1st April 2023.

Interactions

- | | | | |
|---|---|--|--------------------------------|
| <input type="checkbox"/> Grid Code | <input type="checkbox"/> BSC | <input type="checkbox"/> STC | <input type="checkbox"/> SQSS |
| <input type="checkbox"/> European Network Codes | <input type="checkbox"/> EBGL Article 18 T&Cs ³² | <input type="checkbox"/> Other modifications | <input type="checkbox"/> Other |

³² If the modification has an impact on Article 18 T&Cs, it will need to follow the process set out in Article 18 of the European Electricity Balancing Guideline (EBGL – EU Regulation 2017/2195) – the main aspect of

Acronyms, key terms and reference material

| Acronym / key term | Meaning |
|--------------------|---|
| BSC | Balancing and Settlement Code |
| CMP | CUSC Modification Proposal |
| CUSC | Connection and Use of System Code |
| EBGL | Electricity Balancing Guideline |
| STC | System Operator Transmission Owner Code |
| SQSS | Security and Quality of Supply Standards |
| T&Cs | Terms and Conditions |
| BSUoS | Balancing Services Use of System Charge |
| BM | Balancing Mechanism |
| BMU | Balancing Mechanism Unit |
| CVA | Central Volume Allocation |
| SVA | Supplier Volume Allocation |
| ACER | Agency for the Co-operation of Energy Regulators |
| LLFC | Line Loss Factor Classes |
| CfD | Contracts for Difference |
| BEIS | Department for Business, Energy and Industrial Strategy |
| TSO | Transmission System Owner |
| TCR | Targeted Charging Review |
| LV | Low Voltage |
| HV | High Voltage |
| VLP | Virtual Lead Party |

Annexes

| Annex | Information |
|----------|---|
| Annex 1 | Proposal form |
| Annex 2 | Terms of reference |
| Annex 3 | Legal Text |
| Annex 4 | First Workgroup Consultation Responses |
| Annex 5 | Second Workgroup Consultation Responses |
| Annex 6 | Ofgem Analysis – Frontier Economics |
| Annex 7 | CMP333 and CMP308 Analysis – Workgroup Member |
| Annex 8 | Case studies for different sites - ESO |
| Annex 9 | Workgroup Vote |
| Annex 10 | Code Administrator Consultation Responses Summary |
| Annex 11 | Code Administrator Consultation Responses |

this is that the modification will need to be consulted on for 1 month in the Code Administrator Consultation phase. N.B. This will also satisfy the requirements of the NCER process.