

Final Modification Report

CMP361 & CMP362: BSUoS Reform: Introduction of an ex ante fixed BSUoS tariff & Consequential Definition Updates

Overview:

CMP361 seeks to introduce an ex ante fixed volumetric BSUoS tariff set over a total fixed and notice period of 15 months. This will deliver the recommendations of the Second BSUoS Task Force.

CMP362 facilitates the implementation of BSUoS Reform by introducing and updating required definitions into CUSC section 11 from CMP308 and CMP361.

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: This report has been submitted to the Authority for them to decide whether this change should happen.

Panel Recommendation Vote:

CMP361: The Panel has recommended unanimously that both the CMP361 Original and WACM2 better facilitated the CUSC objectives than the current CUSC. They also by majority recommended that WACM1, WACM3, WACM4, WACM5, WACM6 and WACM7 better facilitated the CUSC objectives than the current CUSC.

CMP362: The Panel has recommended unanimously recommended that the CMP362 Original, WACM1, WACM2, WACM5 and WACM6 better facilitated the CUSC objectives than the current CUSC. They also by majority recommended that WACM3 and WACM4 better facilitated the CUSC objectives than the current CUSC.

This modification is expected to have a: **High impact** on Suppliers, Generators, Final Demand and National Grid ESO.

Governance route This modification has been assessed by a Workgroup and Ofgem will make the decision on whether it should be implemented.

Who can I talk to about the change?

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Executive summary

CMP361 seeks to introduce an ex ante fixed volumetric BSUoS tariff set over a total fixed and notice period of 15 months. This will deliver the recommendations of the Second BSUoS Task Force.

CMP362 introduces and updates required definitions into CUSC section 11 from [CMP308 'Removal of BSUoS charges from Generation'](#) and CMP361.

What is the issue?

CMP361: Section 14 of the CUSC currently refers to the Balancing Service Use of System (BSUoS) tariff being set on a half-hourly basis, changing in each settlement period. This approach does not provide certainty, stability or transparency of BSUoS charges, as identified through the BSUoS Task Force, and therefore the methodology should be updated to enable a fixed tariff.

CMP362: These modifications will require new definitions in CUSC Section 11.

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

Proposer's solution

CMP361: To implement an ex-ante fixed BSUoS tariff with a 3-month notice period, and 12-months fixed period, with a 1 in 100-year probability (P99) of tariffs needing to be re-set within the fixed period (based on historical performance of BSUoS).

CMP362: This modification seeks to ensure alignment of definitions across CUSC Section 14 and CUSC Section 11.

Implementation date: 1 April 2023 - alongside other proposed (but not yet formally approved by the Authority) wider BSUoS Reforms.

CMP361 Summary of alternatives and implementation date(s):

Seven alternatives have been formally raised (all with implementation date 1 April 2023). The elements of the solution which the alternative solutions change are:

The length of the notice and fixed periods (3N 12F, 12N 3F or 9N 6F)	Whether a BSUoS Fund is used, not used or capped at £25m	The probability level of needing to reset tariffs within the fixed period (P99 or P90)	The length of the collection period to build up the BSUoS Fund (two or five years)
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CMP362 Summary of alternatives and implementation date(s):

Corresponding CMP362 alternatives have been raised where required to enable the CMP361 alternative solutions (all with implementation date 1 April 2023).

Workgroup conclusions:

CMP361: The Workgroup concluded unanimously that the Original and WACM2 better facilitated the Applicable Objectives than the Baseline, and by majority concluded that WACMs 1, 3, 4, 5, 6 and 7 better facilitated the Applicable Objectives than the Baseline.

CMP362: The Workgroup concluded unanimously that the Original and WACMs 1, 2, 5 and 6 better facilitated the Applicable Objectives than the Baseline, and by majority concluded that WACMs 3 and 4 better facilitated the Applicable Objectives than the Baseline.

What is the impact if this change is made?

CMP361 will contribute to CMP308's aim of removing competitive distortions between transmission, distribution and interconnected generation but should be considered as a stand-alone modification. The new proposed methodology simplifies BSUoS payers'

charging methodology and unlocks process efficiencies for BSUoS payers. It is expected that CMP361 will result in lower consumer bills through reduced Generator and Supplier risk premia. This is achieved by increased certainty over BSUoS charges. Please note that if CMP308 is approved and implemented at the same time as this modification then the impact of CMP361 will solely be on Suppliers. If CMP308 is implemented in isolation, the absolute value in monetary terms of the risk premia will increase by around the same rate as that removed from Generators.

Interactions

CMP361 and CMP362 are linked to CUSC modification CMP308, however the Authority representative confirmed that although they are linked, each of the modifications require stand-alone decisions.

What is the issue?

CMP361: Section 14 of the CUSC currently refers to the Balancing Service Use of System (BSUoS) tariff being set on a half-hourly basis, changing in each settlement period and charged to both generation and demand.

This approach does not provide certainty, stability or transparency of BSUoS charges, as identified through the BSUoS Task Force, and therefore the methodology should be updated to enable a fixed tariff.

Currently, due to the nature of tariffs being set on a settlement period basis, there is no enduring consideration of the ESO's ability to finance BSUoS as the risk to the ESO is low.

To enable a fixed tariff, where the ESO sets the tariff in advance and holds the associated risk, the CUSC must also be updated to ensure that the ESO financial position remains viable. This is by setting out in CUSC:

- how any additional working capital can be provided; and
- a process for exceptional circumstances

CMP362: Ofgem, in their [response letter](#) to the [Second BSUoS Task Force final report](#) on 10 December 2020, recommended that industry should develop refined solutions in line with the Task Force recommendations through the code modification process.

CMP308 will change who pays BSUoS charges so they are paid for by final demand only. CMP361 will create a fixed BSUoS tariff methodology. These modifications will create new definitions which are currently not reflected in CUSC Section 11 (definitions). This modification seeks to ensure alignment of definitions across CUSC Section 14 and CUSC Section 11.

Why change?

CMP361: BSUoS charges are the means by which the ESO recovers the costs associated with balancing the electricity transmission system. Ofgem have previously considered whether the current methodology for BSUoS charges needed to change in their Targeted Charging Review (TCR) Significant Code Review (SCR). Alongside this SCR, Ofgem had asked the ESO to lead two industry Task Forces.

The First BSUoS Task Force considered whether BSUoS should either send cost reflective signals or be treated as a cost recovery charge. The conclusion was that BSUoS should be a cost recovery charge as it was not considered feasible to positively influence BSUoS payers' behaviour through the charging methodology and lower costs for consumers.

In November 2019 the TCR concluded and Ofgem directed the ESO to raise [CMP333](#) (BSUoS charged on gross demand) to remove the embedded benefit for distribution connected generators. This creates a more level playing field for generation, by charging

suppliers on a gross volume basis. Alongside the TCR decision, Ofgem requested that the ESO lead a Second BSUoS Task Force to explore who should pay BSUoS and how it should be recovered.

The Second BSUoS Task Force published their [recommendations](#) in September 2020. The Task Force concluded that Final Demand should pay all Balancing Charges subject to there being enough notice given to industry before implementation. This recommendation is being developed through a separate modification CMP308 (Removal of BSUoS Charges from Generation).

In terms of how BSUoS should be recovered, the Task Force concluded that a volumetric fixed BSUoS charge would be likely to deliver an overall consumer benefit, and that the total length of the fixed and notice period should be around 14 to 15 months in length. Ofgem agreed that this work should proceed.

The current BSUoS Charging Methodology in the CUSC requires updating to enable the conclusions of the BSUoS Task Force to be taken forwards via this modification. This CMP will focus on elements of the change to the charging methodology not covered by CMP308. The introduction of a fixed BSUoS tariff decreases the impact of CMP308 on suppliers by giving suppliers more confidence on BSUoS costs during the fixed tariff period.

The ESO in the [RIIO2 business plan](#) commits to reviewing the possibility of a fixed BSUoS tariff. This is to reduce variability of BSUoS prices, create certainty for suppliers to support their pricing decisions, and should result in risk premia reductions and cost savings for consumers. These benefits were re-iterated in the Second BSUoS Task Force conclusions and in the Frontier Economics analysis in Annex 4.

CMP362: To introduce this CUSC changes to the BSUoS Charging Methodology are required (CUSC Section 14) as well as consequential definition updates to CUSC Section 11.

CMP308 and CMP361 are separate stand-alone modifications but there is Industry expectation that if both are approved, they will be implemented at the same time.

What is the solution?

Proposer's solution

CMP361: To implement an ex-ante fixed BSUoS tariff with a 15-month combined fixed and notice period, the Proposer suggests the following solution:

Timescales and Process

Notice will be provided in December of the tariff which will be fixed for the following financial year (April to March) including known and forecast under/over recovery for preceding years. This provides industry with 3 months' notice of a tariff, and 12 months when it is fixed. This could benefit consumers as Generators and Suppliers will be able to remove risk premia from their wholesale prices and bills to the end consumer.

Setting Fixed Price BSUoS tariff

The total BSUoS pot to be recovered will be made up of all the relevant cost elements that make up BSUoS including financing costs, any over/under recovery adjustment (K factors) and BSUoS Fund requirements to insure against the need to reset tariffs within the fixed period (up to a 1 in 100 years likelihood (referred to in this document as a P99 level)). The ESO will forecast Final Demand volumes over the fixed period. These two inputs will be used to set the relevant fixed BSUoS tariff.

The BSUoS Fund requirement is the difference between the total available working capital for fixed BSUoS (ESO working capital anticipated to be £300m¹ and any existing BSUoS fund), and the funds required to achieve a 1 in 100-year likelihood of tariffs being reset within the fixed period. This requirement is re-calculated whenever tariffs are re-set, should the requirement reduce, then additional money in the BSUoS fund will be returned via the over-recovery mechanism in future tariffs. The BSUoS fund will be held in a separate ESO ringfenced account, and any interest accrued will be consolidated into the fund.

Applying fixed price BSUoS to charging base

The ESO will calculate each relevant User's BSUoS liability based on the current charging base (or Final Demand as determined by CMP308 if CMP308 is approved by the authority) and the fixed tariff as above. Any changes in the frequency of billing and the associated credit cover and data requirements will be considered through modifications to the CUSC and BSC which may be raised in due course.

ESO Working Capital and Capped Liability

There should be a cap on the ESO's total support via its working capital facility (WCF). This cap ensures that the ESO can finance fixed BSUoS.

Process for exceptional circumstances

Should the outturn of BSUoS result in there not being sufficient working capital to cover Balancing Service spend (i.e. both the ESO WCF and the BSUoS Fund are forecast to be used up), then tariffs would need to be re-set within the fixed period. This is envisaged to be an exceptional circumstance. The current proposal is that this is set as a 1 in 100-year (P99) likelihood of happening. The ESO would have the automatic right to re-set tariffs should this be forecast to happen.

Data transparency

It is important for industry to have visibility of upcoming costs, and the potential for tariffs to be reset. Therefore, the ESO will provide:

- quarterly forecasts of the upcoming BSUoS tariff to industry
- monthly updates on the usage of funds available (ESO WCF & BSUoS Fund)
- should 80% of total funds available be used, the ESO will begin providing updates on each working day
- as today, balancing service cost monthly publications over a 2-year time horizon

¹ Variable figure to be agreed between ESO and Ofgem and not specified in the CUSC.

Interaction with CMP308

The changes to the charging base created through CMP308 have to be considered in the fixed tariff application. The solutions, despite being able to be created independently, have to function on a holistic basis. If CMP308 is implemented then the Generator Charging base is removed, effectively ~ doubling the BSUoS charge levied on Suppliers.

CMP362: This modification will update CUSC Section 11 to reflect the required definitions as created through CMP308 and CMP361.

Workgroup considerations

The Workgroup convened 9 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 Code Objectives.

The main elements of the solution discussed by the Workgroup are variations in length of the notice and fixed periods for the fixed volumetric BSUoS charge, and how the charge will be financed.

Notice and Fixed periods

The Task Force concluded that the total length of the fixed and notice periods for a volumetric fixed BSUoS charge should be around 14 to 15 months in length. The Workgroup considered the pros and cons of longer and shorter notice and fixed periods which included considerations such as accuracy of forecasts, the effect on over or under recovery, certainty of tariffs and alignment of the tariff with customer contracts. The Workgroup have discussed two alternative options for notice and fixed periods (all are 15 months length in total).

Original Proposal: 3-month notice period and 12-month fixed period

A 3-month notice period and 12-month fixed period allows for accurate forecasts to feed into the BSUoS tariff, due to future costs being clearer 3 months before they are fixed, compared to 12 months. In addition, this option would provide the greatest certainty over tariffs, as it would be fixed for 12 months, which could be simpler for BSUoS payers to understand. As tariffs would be fixed on a 12-month basis, the difference made by over / under recovery would be less spikey than alternatives which fix on shorter timescales. There were significant concerns raised by some work group members, that this does not provide Suppliers with sufficient notice to account for the fixed BSUoS price in their tariffs.

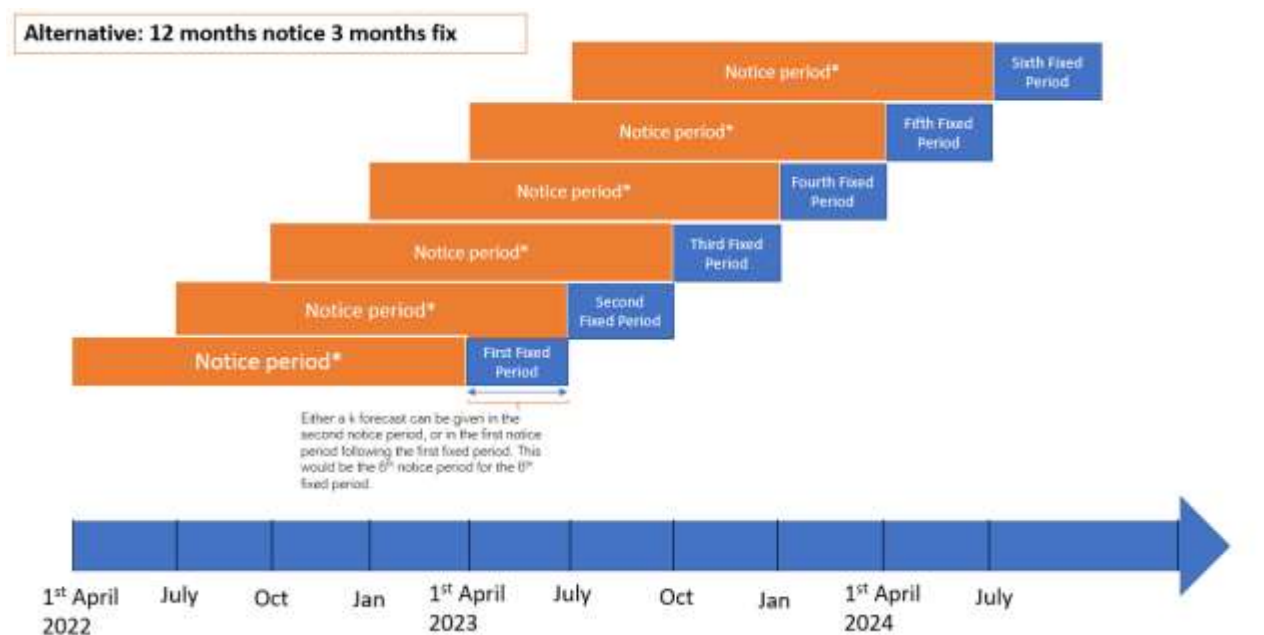
The Workgroup discussed that to ensure a full 3 months' notice, tariffs would need to be published in December. The Proposer agreed to incorporate into their solution that tariffs would be published in December.



12-month notice period and 3-month fixed period

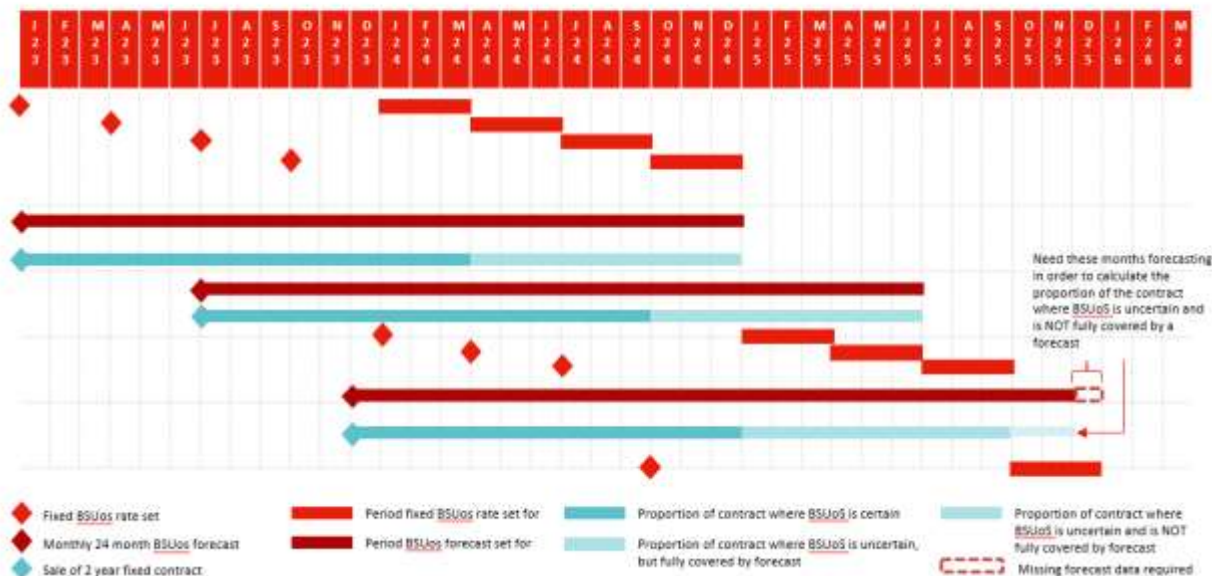
WACM1 has a 12-month notice period and 3 months fixed period (a WACM form for this can be found in Annex 9a). A longer notice period would allow Suppliers to better account for BSUoS in their tariffs and would provide future notice of tariffs for their business models. With the 3 months’ notice and 12 months fixed solution, depending on when a Supplier takes on a new customer, especially for fixed term contracts, Supplier tariffs and Generator wholesale prices may still need to include significant risk premia as a year’s fixed contract may include several months where BSUoS tariffs are not fixed. For non-fixed contracts, Suppliers do not want to change their tariffs on a consistent basis. Therefore, Suppliers may choose to accept any losses, or the end consumer may overpay depending on which direction the BSUoS charge goes.

This solution therefore allows for a greater number of fixed priced Settlement Periods irrespective on when a customer was attained within the Financial Year. However, there were concerns raised by some Workgroup members that this will result in tariffs being less accurate, and that it could result in larger swings between each tariff as over / under recovery could be spikier on a quarterly basis each time the tariffs were fixed. It would be possible for Suppliers and Generators to partially remove this spikiness on the end tariff charges to their end consumer, but it would involve accurately forecasting consumption per quarter.



The timeline was considered from a Supplier’s perspective. This diagram shows the impact on 2-year fixed contracts.

Timetable – assume 12m notice with 3m fixed

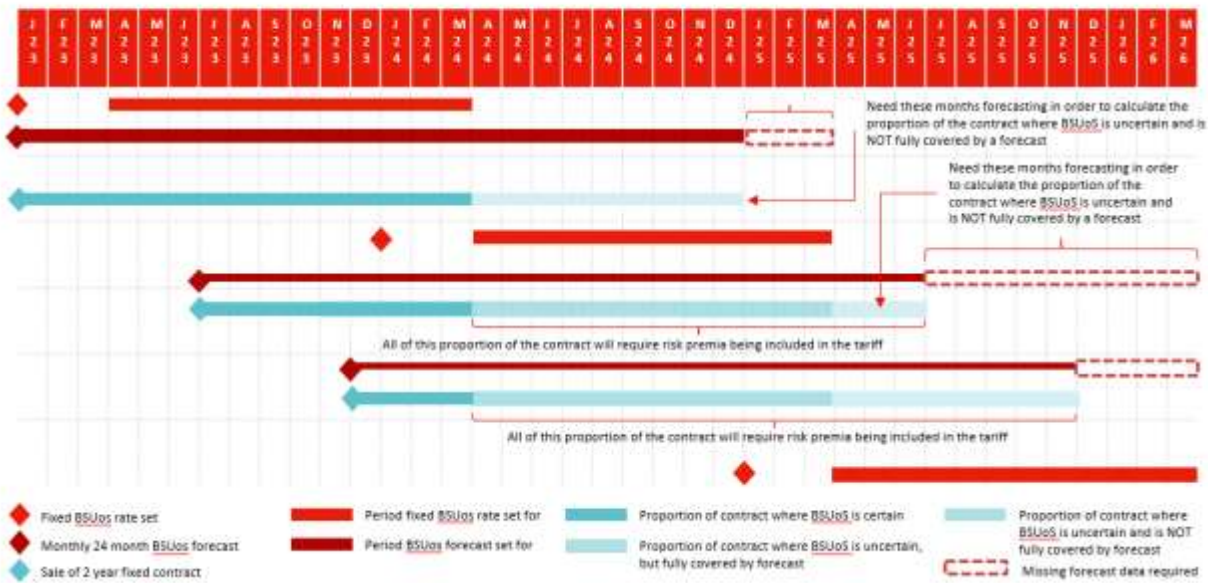


The diagram above shows how a supplier selling a 2 year fixed contract (very common for business customers) will be less exposed to uncertainty in BSUoS charge under a 12-month notice period and a 3-month fixed period and can therefore remove risk premiums that would be necessary under a 3-month notice period, 12-month fixed methodology. (Pages 37-39 of the Frontier Analysis in Annex 4 summarise the statistics on fixed contract lengths).

Under the proposed option (3-month notice, 12-month fixed), suppliers that sell a contract one month before the start of the notice period will have to price that contract based on 4 months of known BSUoS, 12 months of unknown BSUoS but which are totally covered by a ESO forecast and 8 months of unknown BSUoS which are only partially covered by an

ESO BSUoS forecast. Alternatively, using a 12-month notice, 3-month fixed method means that suppliers can price the same contract with the certainty of 13 months of fixed BSUoS known, 9 months of BSUoS not fixed but covered by an ESO forecast and only 2 months of BSUoS not fixed, but only partially covered by an ESO forecast. This shows that there is more risk inherent for customers in the 3-month notice, 12-month fixed option as compared to the 12-month notice, 3-month fixed method. However, forecasting out 12 months compared to 3 months is more complex and does introduce more uncertainty for the ESO (see below).

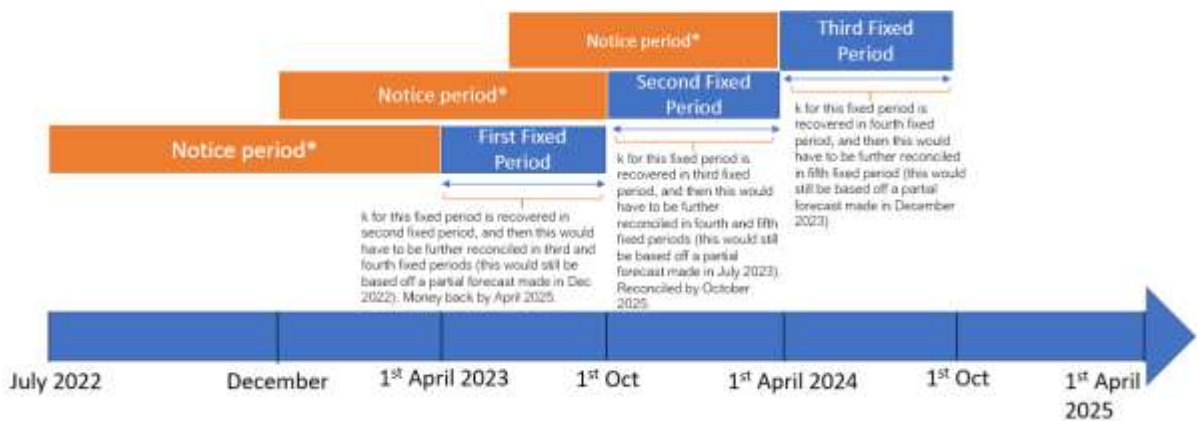
Timetable – assume 3m notice with 12m fixed



9-month notice period and 6-month fixed period

WACM3 and WACM4 use a 9-month notice period and 6-month fixed period. The benefits of this approach are that it provides a balance between the two other options.

Alternative: 9 months notice 6 months fix



Variability in BSUoS forecasts at different time horizons

Further analysis conducted by the ESO shows the variability of a BSUoS forecast as a function of forecast lead time. In an indicative case study using known information, the total variability in a forecast for a 12-month period is estimated to increase by around 50% when comparing forecasts made 3 months and 12 months ahead. In short, this is due to the potential increased variability of potential network changes and wholesale costs in a 12-month window compared to a 3-month window.

Additional background on this analysis can be found in the document 'ESO Response to Frontier Economics Draft Analysis', in annex 5.

Table 1

Quarterly cost variability (£m)						
Leadtime	Snapshot variability	ESO Policy	External Policy	Network changes	Wholesale costs	Total variability
3 months	125	0	0	0	1.13	141
1 year	125	5	0	35	1.31	216
2 years	125	27.5	27	70	1.41	352
3 years	125	43.75	54	105	1.52	498

Frontier Economics Analysis

In December 2020, Ofgem's open letter in response to the Task Force's proposals to reform BSUoS charges included a commitment to carry out quantitative work to assess the overall impacts of these reforms. Quantitative analysis of different solutions using alternative combinations of fixed charges and notice periods is set out in the report by Frontier Economics and LCP, which can be found in Annex 4. It will form part of Ofgem's overall Impact Assessment of the proposed reform.

Frontier Economics presented an overview of their analytical methodology to the Workgroup. This included an explanation of the methodology adopted, a description of the options they have assessed, the key limitations of their analysis and their preliminary results and findings.

A number of questions were asked by Workgroup members regarding the limitations of the draft analysis undertaken by Frontier Economics. The Proposer shared a note with the Workgroup (included in Annex 5) which sets out their concerns with three main assumptions used in the draft analysis. These were:

- Assumptions around BSUoS cost variability (Frontier's values for ESO exposure),
- The ESO is capable to raise a working capital facility (WCF) which can cover a BSUoS cost variability scenario that would lead to restating tariffs; and
- Forecasting accuracy is constant at all time horizons.

In their final report (Annex 4), Frontier Economics made the following conclusions:

"Overall it seems likely that there is a good case for the implementation of some form of fixed BSUoS charge announced with a notice period.

- The system modelling does not suggest that there are significant system or consumer costs of doing so;
- It would substantially mitigate distributional concerns that may arise from the implementation of CMP308 in isolation; and
- There are clear and material benefits from a transfer of forecasting risk.

However, the quantitative evidence alone does not suggest that there is a strong frontrunner among the options analysed in this report. Indeed, it suggests that the differences in benefits among the options may be relatively small.”

Historic Fixed BSUoS case study

The ESO presented a case study to the Workgroup, this was to demonstrate the impact of forecast error and K for future periods. It was assumed that fixed BSUoS was in place for the years 19/20 and 20/21. The table below compares the total K value (under recovery in this instance) for the financial year for the three different notice and fixed time combinations as detailed above.

Table 2

Financial Year	Total K - 3N12F	Total K - 9N6F	Total K - 12N3F
19/20	£222,302,654.12	£255,930,884.79	£280,444,986.63
20/21	£395,820,125.67	£421,163,176.39	£414,346,073.10

Table two compares the mean K value (under recovery in this instance) per month for the three different notice and fixed time combinations.

Table 3

Financial Year	3N12F		9N6F		12N3F	
	Mean K per month (£/MWh)	Mean K/mean outturn	Mean K per month (£/MWh)	Mean K/mean outturn	Mean K per month (£/MWh)	Mean K/mean outturn
19/20	-0.87	25%	-0.99	29%	-1.08	31%
20/21	-1.71	35%	-1.80	37%	-1.76	36%

Financeability options

To enable a fixed tariff, where the ESO sets the tariff in advance and holds the associated risk, the CUSC must also be updated to ensure that the ESO financial position remains viable. This is by setting out in CUSC:

- how any additional working capital can be provided; and
- a process for exceptional circumstances

BSUoS Fund

The Original proposal is to place a cap on the ESO’s total support via its working capital facility (WCF) and form an industry funded BSUoS Fund to ensure an agreed probability

of tariffs being reset is covered. This would be collected as part of the BSUoS tariff. The Proposer explained that the BSUoS Fund is a pot of money funded by industry which will be ringfenced for BSUoS funding purposes and can be returned. Essentially the BSUoS tariff will be purposely designed to over recover for the first two years and this revenue will remain in a pot instead of being returned back to Industry via the reconciliation process currently and a specific K factor introduced by this modification.

The BSUoS fund would provide more certainty to industry about the likelihood of tariffs being re-set within the fixed period, and therefore reduce / remove associated risk premia. The likelihood of tariffs being re-set are covered in a following section below.

A Workgroup member suggested that this method adds more risk as Suppliers are likely to need to build the cost of the BSUoS Fund into their prices or fund it themselves if they have Fixed price contracts already underway before this modification is approved, which could be less effective than amending the prices if there wasn't a BSUoS Fund. It was suggested by a Workgroup member that an option without a BSUoS Fund should be considered. The ESO representative questioned if there was no cap on the ESO's total and under recovery then the ESO would be at risk of a license breach if all the working capital had been spent to fix the cost of BSUoS, the ESO would also need to ensure they had enough funding. This will increase the likelihood of a mid-year tariff change to ensure the ESO had enough funding. The ESO representative was asked to further explore other financing options. The outcome of this can be found on page 21 of this report.

Exceptional circumstances

Should the outturn of BSUoS result in there not being a sufficient working capital facility to cover Balancing Service spend (i.e. both ESO WCF and the BSUoS Fund are forecast to be used up), then tariffs would need to be re-set within the fixed period. This would be in an exceptional circumstance. The Original proposal is that this is set as a 1 in 100-year (P99) likelihood of happening. The ESO would have the automatic right to re-set tariffs should this be forecast to happen.

Should tariffs need to be re-set within the fixed period, the tariff would be made up of forecast costs and demand for the remainder of the fixed period. The Workgroup discussed how it would not be appropriate in this tariff to re-build the total BSUoS fund and recover all of the ESO's WCF as this would be a significant spike in costs within the period. It was however noted that there would need to be an element of buffer in place added to the costs, to ensure that the tariffs didn't need to be re-set again shortly after. This could be achieved by setting tariffs using a far higher rate. The total under-recovery would then be accounted for in the next notice period.

It was agreed by the Workgroup, that the P level for such exceptional circumstances should not be specified in the CUSC, as this may change depending on circumstance, and this is something that the ESO would seek to engage on.

Alternative approaches discussed

The workgroup discussed alternate approaches to those set out above, this included using a Low Carbon Contracts Company (LCCC) approach to collecting a fund, where collection was separate to the tariff. This option was not taken forward due to additional

complexity for parties, and concerns over ability for Suppliers to recover this money as this would not be included in any price cap.

An option was also noted where in an exceptional circumstance, payments to balancing service providers could be temporarily paused. This was not taken forward, due to the potential impacts on system security and complexity in contractual arrangements.

More information on these can be found in Annex 3.

The Original proposal initially set out that the ESO would set two prices to reflect changes in £/MWh levels (Summer vs. Winter) allowing within year cashflow positions to be managed. However after consideration, the Proposer amended their Original solution to be that only one price is set for the charging year because they considered that two tariffs within a year may add additional complexity and uncertainty for industry, whilst not providing any significant benefits from a cash flow perspective.

Likelihood of tariffs being reset

The Original proposal is set as a 1 in 100-year (P99) likelihood of needing to re-set tariffs within the fixed period. Other P levels were considered by the Workgroup. It was discussed that the most appropriate P level to set this at depends on the industry's appetite for risk.

The ESO provided the Workgroup with a broader range of variability analysis. This shows what different P levels generally equate to from both a financial perspective, and then the likelihood of tariffs being reset in years. The table below shows estimated variability of BSUoS costs in FY2023/24 for a new BSUoS forecast model.

It was advised that the ESO can currently provide £300m working capital fund now therefore anything above £300m would be the BSUoS fund requirement, however this may change in the future depending on the circumstances of the ESO. The Workgroup noted a recent publication on the Future of the System Operator².

The ESO conducted analysis to determine what annual BSUoS cost variability could look like in Financial Year 2023/24.

Firstly, the factors which drive BSUoS cost variability were considered – these are: ESO policies on services procurement, large, unexpected events (e.g. unplanned outages), government and regulatory policy, wholesale electricity costs. Network changes, weather variability and planned network/generator outages.

The annual variability for these factors was then determined by extrapolating from their historical variability. Where some of these BSUoS cost drivers have a discrete distribution of variability over time, rather than a continuous one, reasonable estimates were made to derive their values at different P levels.

Using a Monte-Carlo sampling method the variability of BSUoS costs was determined, yielding bootstrap estimates for variability around the central estimate. These results are presented in Table 4.

² <https://www.gov.uk/government/consultations/proposals-for-a-future-system-operator-role>

The annual variability provided in Table 4 is estimated by combining quarterly forecasts, while considering the difference in variability between those quarters. This means the annual variability is not simply the quarterly variability multiplied by four. For the purposes of this analysis the forecasts for each quarter are considered to have been done at the same time, rather than with a 3-month lag between each one. As 3 months doesn't give much extra information for a forecast, this simplification should have a minimal effect on the variability in the forecast.

This means that the quarterly and annual figures can be used in a comparable manner when assessing the risk of tariff resetting.

Table 4

Percentile	Quarterly (£m)	Annual (£m)	Odds in years
p50	43	163	1 in 2
p55	55	186	
p60	66	210	
p65	78	234	~ 1 in 3
p70	91	259	
p71	94	265	
p72	97	270	
p73	99	276	
p74	102	282	
p75	105	287	1 in 4
p76	108	293	
p77	111	300	
p78	115	307	
p79	118	313	
p80	122	321	1 in 5
p85	137	352	
p90	165	408	1 in 10
p95	203	483	1 in 20
p99	264	574	1 in 100

If the maximum ESO fund equals £300m, without any other funding mechanism the table above indicates that there would be around a 1 in 4 chance of a mid-year tariff change.

The Proposer explained that their assumption is that the higher the P level, the smaller any Supplier risk premia would be due to the decreased risk of a mid-year tariff change, and therefore there are greater consumer benefits in the longer term. It is understood that greater certainty of tariffs is important to both Suppliers and demand users. The Proposer shared their concern that levels less than P90 (less than 1 in 10 years for tariffs being reset) would not provide the intended certainty of fixed BSUoS.

The Proposer also noted, that if the BSUoS fund was “full” in year 2, then future tariffs would be reduced and set at the forecast of BSUoS costs, hence the long-term benefits, particularly in the P99 approach. Should the BSUoS fund be used, or the requirement change, then this would be accounted for in future tariffs.

A Workgroup member questioned whether tariffs needed to be set at P99 for risk premiums to be removed, as different parties have different risk appetites. They suggested that industry would not want to cover such a low likelihood of tariffs being reset if it could result in an inefficient use of industry capital, therefore suggesting a low P level would be more appropriate.

BSUoS Fund collection

Following discussion over concerns of the initial spike in tariffs to collect the BSUoS fund, the Proposer amended their solution so that the ESO would build the initial BSUoS Fund over two years.

To reduce the impact of BSUoS Fund collection in the first fixed period, half of the BSUoS Fund requirement will be added to the first fixed tariff. The remaining BSUoS Fund requirement will be collected via the second fixed tariff. The remaining BSUoS Fund requirement in the second tariff may be different than 50% for a number of reasons:

- The overall BSUoS Fund requirement may change if the variability changes from year 1 to year 2 (it could be higher or lower)
- If the overall requirement remains the same, it may still not be 50% in the second period. The requirement may be higher if the fund has been used in the first fixed period. It may be less if the ESO over recovered BSUoS in the first fixed period

This means that in practice, P99 will not be covered in the first fixed period as only part of the fund has been collected, and therefore the likelihood of tariffs being reset in the first period will be higher.

If the fund ever goes down to £0 in the future, this is recovered again over 2 years.

Final demand data for forecasting purposes

The Proposer advised that to be able to set the first fixed tariffs accurately, the ESO may need to know what final demand looks like depending on CMP308 being approved. The ESO representative stated that the declarations process has not yet started for parties to say they aren't final demand and discussions are being held to see how the declarations process can work in practice. If the CVA process starts in early 2022 and completed by September 2022, and SVA data is received in October 2022 from DNO's, the ESO could provide more accurate forecasting in December 2022, in comparison to earlier in 2022. There were concerns raised by some work group members about what this means for different fix and notice periods. The Proposer noted that this should not change fix and notice proposals, as if the ESO is required to set tariffs earlier in 2022 this can be done on a forecast.

Data Transparency

The Proposer confirmed that the ESO will be doing monthly two year rolling BSUoS forecasts and forecasts of costs. In response to a question from a Workgroup member the Proposer stated that the publishing monthly draft BSUoS tariffs would not be feasible due to the significant amount of inputs required. If using a 3-month notice period, 12-month fixed period approach, the ESO will provide draft BSUoS tariff forecasts to industry each quarter.

A Workgroup member questioned how the charging dispute process would work. It was also questioned, what would happen if a dispute was successful and there were not sufficient funds to cover it.

The Charging Dispute process would work as laid out in Section 7 of the CUSC, under paragraph 7.3 'Charging Disputes'. The determination made by Ofgem could take into account the availability of funds when stating timescales, the repayment would have to be made in.

The Proposer noted that they believe this is where information provision was key. By providing quarterly forecasts of the BSUoS tariff with an explanation behind how the forecast is produced, industry will have notice to challenge and review BSUoS tariffs in advance of them being set. This parallels the way TNUoS tariffs are handled today.

Licence vs CUSC approach

Ofgem delivered a presentation on their developing thinking on the Licence vs CUSC approach. The full slides can be found in annex 6. The Ofgem representative explained that the license sets out what can be recovered and the CUSC sets out how this is recovered. If a fixed term was introduced, then a K factor would need to be introduced into the license and would need to be consistent with the notice period and duration. The rate of interest and speed of recovery would also need to be set out. The Workgroup noted that any such change to the Licence would need to be factored into the timescales for the modifications.

Implementation date

An implementation date of earlier than 2023 was considered, as it was identified in the Authority's response to the BSUoS Task Force's report that this may benefit consumers. However, it was explained by the proposer that a new billing system will be required to implement the modification, and the ESO will require sufficient notice in order to meet the requirements of the solution. Therefore, no potential alternatives have so far been discussed with an earlier date. In addition, this date aligns with modification CMP308. If implemented earlier than CMP308, there is a risk of potential windfall losses or gains.

Consumer Price Cap

A Workgroup member provided the Workgroup with their view on the Consumer Price cap, stating that, Suppliers currently operate under a price cap regime for domestic customers. The Default Tariff Cap sets a maximum amount that can be charged for a typical domestic customer on a default tariff i.e. a standard variable tariff or a default fixed term or prepayment tariff. The Supply Licence (Condition 28AD) and supporting annexes set out the methodology for calculating the level of the Default Tariff Cap. The price cap is currently scheduled to expire on 31 December 2023.

The Workgroup member explained that at the beginning of every February and August, Ofgem publish the level of the cap for the forthcoming charge restriction period, which run from April to September (Summer) and October to March (Winter). The cap provides allowances for wholesale costs and network costs (including BSUoS), as well as for other costs, and is set at a level which reflects Ofgem's view of efficient costs. The BSUoS element of the price cap methodology is currently set on a lagged pass-through basis. Specifically, the BSUoS allowance is derived using a volume weighted average of BSUoS charges in £/MWh in each settlement period across the preceding year ahead of publication of the price cap level. The summer (Apr-Sep) price cap uses BSUoS data from the previous calendar year and the winter price cap (Oct-Mar) uses BSUoS data from 1 July in the previous year to 30 June. This weighted average charge is then uplifted by forecast losses before being multiplied by annual domestic consumption to provide the BSUoS allowance in the price cap.

Setting the BSUoS allowance on a lagged pass through basis can create significant differences between the BSUoS allowance in the cap and BSUoS costs being faced in real time. However, under the current ex-post approach to charging it is necessary since it is not possible to forecast an efficient level of BSUoS costs ahead of time. All other elements of the network charge allowance, e.g. for TNUoS and DUoS, use published ex-ante rates.

A move to a fixed ex-ante charge envisaged under CMP361/2 for BSUoS would create the opportunity to reflect the true BSUoS costs in the price cap allowance by setting the allowance equal to the published ex-ante tariff. This would seem appropriate when considered alongside the proposed move to a demand only charge under CMP308 since under the current lagged methodology the impact of a new and much higher demand only BSUoS charge would not be fully included in the domestic price cap for 18 months post implementation. This would create a risk for suppliers that they would be unable to adequately fund increased BSUoS costs.

If the price cap was changed to incorporate the ex-ante fixed BSUoS charge, then a further consideration would be the approach to any cost true up required for cap periods prior to the move to an ex-ante approach. There may be a need for a transitional approach to include this prior period cost true up.

These price cap issues were also considered by the Second BSUoS Task Force, who recommended that Ofgem include the new fixed BSUoS price in the price cap from the point of implementation, including any necessary adjustment to true up allowances for cap periods before the move to an ex-ante approach.

CMP250 Learnings

It was within the Workgroup's Terms of Reference to consider any points of learning from the CMP250 Workgroup and Ofgem's CMP250 decision. Some Workgroup members who had been involved with CMP250 agreed that the Workgroup has happened a long time ago and there had since been a lot of change, so there was limited discussion around any key learnings.

Workgroup consultation summary

The Workgroup held their consultation between 1 September – 24 September 2021 and received 16 non-confidential responses and 1 confidential response. The non-confidential responses can be found in Annex 7 and a summary of the Workgroup Consultation responses can be found in Annex 8.

- Most respondents were supportive of the proposal and/or some of the alternatives mentioned.
- Some respondents voiced that industry needs sufficient time to factor in the change before it's implemented. Some Workgroup members highlighted that a longer notice period would provide more certainty of future tariffs and more accurate charges for customers. An option for these modifications was discussed which would see them be implemented in October, rather than April to allow the ESO more time for implementation. The ESO stated that the planned implementation timescales are achievable, however noted that Ofgem direct the implementation date.
- One respondent believed that any RCRC issues should be addressed now. The Workgroup discussed this further and agreed that RCRC is material to BSUoS and therefore would need to be aligned with the reformed BSUoS. It was also noted that only liable Parties would be involved with this.
- Some consultation respondents were supportive of more exploration of options without a BSUoS Fund. The Workgroup questioned if all cost options had been fully explored.
- There were mixed views on fixed and notice periods from respondents. The Workgroup noted that respondents gave more support for a longer notice period, than the Original solution. The Workgroup discussed if the analysis provided by Frontier could have been summarised clearer in the consultation as respondents could have interpreted the analysis in a different way.
- Respondents had mixed views on what the appropriate P Level would be, with P99 being the most popular. The Workgroup highlighted that it would be beneficial to document how the P level calculation is built up over time as there are concerns around how the P99 would be funded.

- There was some support for the BSUoS Fund being built up over two financial years. There was also some support for it to be built up over more than two years, e.g. five.
- Respondents were supportive of CMP362. Workgroup members noted that CMP361 provides the benefits and CMP362 makes it happen, so the modifications do not work if they are not both implemented together.

Following the Workgroup Consultation, Workgroup members sought further clarifications from the ESO on the following;

ESO ability to finance more risk

The ESO representative confirmed that banks have a finite amount of capital they can lend to the ESO under their regulatory rules they have to hold capital in reserve to cover default. This amount of capital is held against a customer account and will depend on factors such as credit rating, environment (regulatory regime), sector, political landscape etc. The banks have a target return they want to make from their capital which includes interest as well as ancillary business such as hedging, swaps, bond market issuance, foreign exchange etc.

The ESO have no ancillary business to place with a lender. The ESO representative stated that, a standalone ESO is not an attractive proposition for a bank as they can deploy their capital more profitably to other customers, however they believe a standalone ESO can raise credit in the bank market but this needs to cover all regulatory cash timing risks which is not limited to BSUoS tariff risk. Therefore, ESO would only ever be able to cover a proportion of the P99 risk, dependant on the credit facilities it can raise in the market at any given time.

The ESO representative also confirmed that they engaged with credit risk specialists who have confirmed that there is not an insurance policy that would cover a potential cash flow risk. The only trigger for a policy would be insolvency of the party we are contracting with, which is not suitable for BSUoS reform.

Recovery of BSUoS fund if it goes down to zero in future years

The Proposer, following the consultation amended their original solution to state that if the BSUoS fund ever goes down to £0 in the future, this is recovered again over 2 years.

Engagement with industry

The ESO confirmed that information will be provided in advance of the tariffs relating to the methodology they are using and to engage on this. Through the 3-month notice, 12-month fix option, it also provides more routes to engage on the methodology ahead of final tariffs being set (as the ESO are providing quarterly forecasts of the tariff, including commentary).

Year 1 notice period

In the first year, the maximum notice period we would be able to provide is 6 months i.e. setting the tariffs in September 2022 ahead of the tariff commencing on 1 April 2023, this would then allow for a consultation period on the methodology ahead of this. All Proposers of WACMs with longer notice periods have agreed a year 1 exception.

Process for non-payment

Non-payments by those liable for BSUoS will be treated as per the processes already in place.

CMP361 Workgroup Alternative CUSC Modifications (WACMs)

After considering the Workgroup Consultation responses, five further Alternative Proposals were raised for the Workgroup to consider in addition to the one raised prior to the Workgroup Consultation.

All but one of the proposals were carried through to be formally raised after holding the Alternative Vote. The discounted alternative had a 12-month notice and 12-month fixed period with all other aspects the same as the original.

The below table summarises the WACMs brought forward. The relevant WACM forms and Legal text can be found in Annexes 9a and 10a.

Ref	Alternative name	Notice Period	Fixed Period	P level	BSUoS Fund?	BSUoS Fund recovery period
Original		3 months	12 months		Yes	2 years
WACM1	12N 3F	12 months	3 months	P99	Yes	2 years
WACM2	9N 6F	9 months	6 months	P99	Yes	2 years
WACM3	9N 6F, No BSUoS Fund	9 months	6 months	P77	No	N/A
WACM4	12N 3F, No BSUoS Fund	12 months	3 months	P77	No	N/A
WACM5	5-year BSUoS Fund Recovery	3 months	12 months	P99	Yes	5 years
WACM6	9N 6F, P90, BSUoS Fund cap	9 months	6 months	P90	Yes	Capped at £25m per year
WACM7	12N 3F, P90, BSUoS Fund cap	12 months	3 months	P90	Yes	Capped at £25m per year

WACM1: 12N 3F and WACM2: 9N 6F

This Proposal gives a longer notice period, which therefore helps suppliers to accurately price BSUoS into supply contracts. The analysis by Frontier Economics considered the industry benefit of the different options weighted across different supply contract durations. Figure 47 of the report by Frontier Economics shows that this combination has the highest industry benefit out of the options which have a total fixed and notice period of 14/15 month. This suggests that 9N6F would remove the greatest amount of risk from supply contracts across the sector. The benefit of 9N6F over 12N3F is the improved accuracy of BSUoS forecasts resulting in smaller k factors (leading to more reflective BSUoS charges) and a reduced chance of resetting tariffs/a reduced BSUoS Fund requirement due to lowered risk of the forecast being too incorrect.

WACM3: 9N 6F, No BSUoS Fund and WACM4: 12N 3F, No BSUoS Fund

These alternatives were raised due to concern that the BSUoS Fund concept in the Original may reduce the benefit of the change. The BSUoS fund was not recommended by the Task Force or Ofgem and it could represent a shock to industry. The mechanism

would require suppliers to be able to forecast changes in the ESOs working capital arrangements and risk modelling to be able to forecast future BSUoS rates, which it was considered that Suppliers are not best placed to do. The fund itself will therefore add back some of the risk premium that the change seeks to reduce.

WACM5: 5-year BSUoS Fund Recovery

This alternative request seeks to spread the cost to industry (and hence customers) over a longer period to reduce the volatility of BSUoS payments. It acknowledges that there is more risk of BSUoS rates needing to be reopened within year by extending the time over which the fund is collected, but believes that at the P99 level, the additional risk is balanced by the reduction in volatility of customers' bills.

If the fund ever goes down to £0 in the future, this is recovered again over 5 years. Collecting the BSUoS Fund over 5 years at P99 offers the equivalent risk of collecting the BSUoS Fund over 2 years at P90.

Concerns were raised regarding this WACM, that the longer the BSUoS Fund is built up, the more likely tariffs are to be reset in the interim. There is also a risk that it may not be clear to industry what level it is built up to.

WACM6: 9N 6F, P90, BSUoS Fund cap and WACM7: 12N 3F, P90, BSUoS Fund cap

This alternative is a compromise between alternatives with and without a BSUoS Fund. This alternative includes a cap to the annual contribution to the BSUoS Fund on £25m per annum. A capped contribution to the BSUoS fund significantly reduces the uncertainty surrounding changes to the ESO's working capital and risk modelling, as well as the cost shock associated with its introduction

This alternative sets the fund to recover a lower level of base risk (P90 rather than P99), leaving individual market participants to price in any further premium if desired and allowed by competitive pressures, will help to ensure competition drives an efficient outcome for risk premiums. Therefore, this alternative reduces the target confidence level to P90.

CMP362 Workgroup Alternative CUSC Modifications (WACMs)

Corresponding CMP362 alternatives have been raised where required to enable the CMP361 alternative solutions (all with implementation date 1 April 2023). The relevant WACM forms and Legal text can be found in Annexes 9b and 10b.

CMP361 WACMs	Alternative name	Corresponding CMP362 WACMs	Note
Original		362 Original	
WACM1	12N 3F	362 WACM 1	
WACM2	9N 6F	362 WACM 2	
WACM3	9N 6F, No BSUoS Fund	362 WACM 3	
WACM4	12N 3F, No BSUoS Fund	362 WACM 4	
WACM5	5-year BSUoS Fund Recovery	362 Original	A separate WACM was not required for this alternative as the

			legal text is the same as the CMP362 Original
WACM6	9N 6F, P90, BSUoS Fund cap	362 WACM 5	
WACM7	12N 3F, P90, BSUoS Fund cap	362 WACM 6	

Legal text

The Legal text for these modifications can be found in Annex 10.

What is the impact of this change?

Proposer's assessment against Code Objectives

CMP361 – Charging Objectives

Proposer's assessment against CUSC Charging Objectives	
Relevant Objective	Identified impact
(a) That compliance with the use of system charging methodology facilitates effective competition in the generation and supply of electricity and (so far as is consistent therewith) facilitates competition in the sale, distribution and purchase of electricity;	Positive This modification will contribute to CMP308's aim of removing competitive distortions between transmission, distribution and interconnected generation. It will also improve competition between suppliers by removing volatility in their pricing leading to efficiencies in consumer offerings.
(b) That compliance with the use of system charging methodology results in charges which reflect, as far as is reasonably practicable, the costs (excluding any payments between transmission licensees which are made under and accordance with the STC) incurred by transmission licensees in their transmission businesses and which are compatible with standard licence condition C26 requirements of a connect and manage connection);	Neutral
(c) That, so far as is consistent with sub-paragraphs (a) and (b), the use of system charging methodology, as far as is reasonably practicable, properly takes account of the developments in transmission licensees' transmission businesses;	Positive This CMP applies the TCR principles of reducing harmful distortions, fairness and proportionality. The ESO Forward Plan commits to reviewing fixed BSUoS to address industry concerns about BSUoS unpredictability and resulting risk premia. The Proposer believes that fixing BSUoS could allow more efficient pricing to

	consumers than those currently available through the removal of risk premia.
(d) Compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency *; and	Neutral
(e) Promoting efficiency in the implementation and administration of the system charging methodology.	Positive Reforming BSUoS charging to create an ex ante fixed price methodology simplifies BSUoS payers' charging methodology and unlocks process efficiencies for BSUoS payers.
*Objective (d) refers specifically to European Regulation 2009/714/EC. Reference to the Agency is to the Agency for the Cooperation of Energy Regulators (ACER).	

CMP362 – Non-Charging Objectives

Proposer's assessment against CUSC Non-Charging Objectives	
Relevant Objective	Identified impact
(a) The efficient discharge by the Licensee of the obligations imposed on it by the Act and the Transmission Licence;	Neutral
(b) Facilitating effective competition in the generation and supply of electricity, and (so far as consistent therewith) facilitating such competition in the sale, distribution and purchase of electricity;	Neutral
(c) Compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency *; and	Neutral
(d) Promoting efficiency in the implementation and administration of the CUSC arrangements.	Positive This modification improves efficiency by ensuring all required definitions for BSUoS reform are accurate and in CUSC Section 11.
*Objective (c) refers specifically to European Regulation 2009/714/EC. Reference to the Agency is to the Agency for the Cooperation of Energy Regulators (ACER).	

CMP361 Workgroup vote

The workgroup met on 3 November 2021 to carry out their workgroup vote. The full Workgroup vote can be found in Annex 11a. The table below provides a summary of the Workgroup members view on the best option to implement this change.

The Applicable CUSC Objectives are:

CUSC charging objectives

- a) That compliance with the use of system charging methodology facilitates effective competition in the generation and supply of electricity and (so far as is consistent therewith) facilitates competition in the sale, distribution and purchase of electricity;
- b) That compliance with the use of system charging methodology results in charges which reflect, as far as is reasonably practicable, the costs (excluding any payments between transmission licensees which are made under and accordance with the STC) incurred by transmission licensees in their transmission businesses and which are compatible with standard licence condition C26 requirements of a connect and manage connection);
- c) That, so far as is consistent with sub-paragraphs (a) and (b), the use of system charging methodology, as far as is reasonably practicable, properly takes account of the developments in transmission licensees' transmission businesses;
- d) Compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency *; and
- e) To promote efficiency in the implementation and administration of the system charging methodology

*Objective (d) refers specifically to European Regulation 2009/714/EC. Reference to the Agency is to the Agency for the Cooperation of Energy Regulators (ACER).

The Workgroup concluded unanimously that the Original and WACM2 better facilitated the Applicable Objectives than the Baseline, and by majority concluded that WACMs 1, 3, 4, 5, 6 and 7 better facilitated the Applicable Objectives than the Baseline.

Option	Number of voters that voted this option as better than the Baseline
Original	8
WACM1	7
WACM2	8
WACM3	7
WACM4	7
WACM5	7
WACM6	7
WACM7	7

CMP362 Workgroup vote

The workgroup met on 10 November 2021 to carry out their workgroup vote. The full Workgroup vote can be found in Annex 11b. The table below provides a summary of the Workgroup members view on the best option to implement this change.

The Applicable CUSC Objectives are:

CUSC non-charging objectives

- a) The efficient discharge by the Licensee of the obligations imposed on it by the Act and the Transmission Licence;
- b) Facilitating effective competition in the generation and supply of electricity, and (so far as consistent therewith) facilitating such competition in the sale, distribution and purchase of electricity;
- c) Compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency *; and
- d) Promoting efficiency in the implementation and administration of the CUSC arrangements.

*Objective (c) refers specifically to European Regulation 2009/714/EC. Reference to the Agency is to the Agency for the Cooperation of Energy Regulators (ACER).

The Workgroup concluded unanimously that the Original and WACMs 1, 2, 5 and 6 better facilitated the Applicable Objectives than the Baseline, and by majority concluded that WACMs 3 and 4 better facilitated the Applicable Objectives than the Baseline.

Option	Number of voters that voted this option as better than the Baseline
Original	9
WACM1	9
WACM2	9
WACM3	8
WACM4	8
WACM5	9
WACM6	9

When will this change take place?

Implementation date

1 April 2023 - alongside the wider BSUoS Reform implementations. A single implementation date would simplify the implementation process for industry.

The interaction between this modification and CMP308 (Removal of BSUoS Charges from Generators) creates a further driver for joint implementation. The additional BSUoS liability shifted to final demand may be offset to some extent through creating a fixed BSUoS tariff and reducing uncertainty around pricing.

Date decision required by

An Ofgem decision is required by February 2022 to allow effective implementation in ESO systems. This would provide certainty to involved parties which could remove cost from their risk premia. The Workgroup and consultation process will determine if a longer period or later implementation is necessary.

Implementation approach

Relevant IT and process changes will be required prior to the implementation date.

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"/> EBR Article 18
T&Cs ³ | <input type="checkbox"/> Other
modifications | <input type="checkbox"/> Other |

These modifications are linked to CMP308 as mentioned above. To ensure the interactions are considered it is recommended that the legal text is considered creating a holistic legal text solution.

Additionally, a further modification is expected to be raised to review BSUoS billing frequency and credit cover requirements that will interact with how a fixed BSUoS charge would be billed.

The Workgroup discussed that there may be an impact on Residual Cashflow Reallocation Cashflow (RCRC) and that a BSC issues group would be required to look into this.

³ 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 Electricity Balancing Regulation (EBR – EU Regulation 2017/2195) – the main aspect of 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.

First Code Administrator Consultation summary

The Code Administrator Consultation was issued on the 3 December 2021 closed on 12 January 2022 and received 14 non-confidential responses and 1 confidential response. A summary of the responses can be found in the table below, and in Annex 12. The full responses can be found in Annex 13.

CMP361 Code Administrator Consultation summary

Question	
Do you believe that the Original Proposal and/or WACM1, WACM2, WACM3, WACM4, WACM5, WACM6 or WACM7 better facilitate the Applicable Objectives?	<p>The majority of the respondents felt that all of the solutions better facilitated the applicable objectives.</p> <p>Support was shown for the Original, WACM1, WACM2, WACM3, WACM4, WACM5, WACM7. There was no specific mention to WACM6.</p>
Do you support the proposed implementation approach?	The majority of respondents supported the implementation approach. Some respondents felt that these modifications should be implemented at the same time as CMP308.
Do you have any other comments?	<p>There was mixed support for each of the different options, with some preferences shown for longer notice periods for tariffs and some preferences shown for shorter periods. Some did not support the BSUoS Fund whilst others did. There were a couple of comments stating that they expect the ESO's BSUoS Forecasts to be accurate and monitored by Ofgem.</p> <p>Some noted that the solution should reduce the likelihood of tariffs being reset within the fixed period and that it should benefit consumers. One raised that the solution should be simple given the amount of change currently affecting the industry.</p> <p>One raised that CMP361 would require a change to include the new fixed BSUoS price in the price cap at the point of implementation.</p>
Legal text issues raised in the consultation	
None raised as part of consultation but subsequently identified by a Panel Member.	
EBR issues raised in the consultation	
None raised (no impact identified for this modification).	

CMP362 Code Administrator Consultation summary

Question	
Do you believe that the Original Proposal and/or WACM1, WACM2, WACM3, WACM4, WACM5 or WACM6 better facilitate the Applicable Objectives?	The majority of respondents felt that all of the solutions better facilitated the objectives. Some gave the same answer as for CMP361. Others felt like this was a purely enabling modification for CMP361. One highlighted the importance that the corresponding solution to CMP361 needs to be implemented to ensure this facilitates the objectives.
Do you support the proposed implementation approach?	All respondents who answered this question supported the implementation approach.
Do you have any other comments?	None raised.
Legal text issues raised in the consultation	
None raised.	
EBR issues raised in the consultation	
None raised (no impact identified for this modification).	

Second Code Administrator Consultation

Following the first Code Administrator Consultation, some legal text issues were identified by a Panel Member. The CUSC Panel at their meeting on 26 January 2022 reviewed the proposed amendments to the legal text. These were as follows:

Proposed Change	Which CMP361 solutions does this apply to
14.30.5 - The amount included to account for over or under recovery, described in Paragraph 14.30.4, is calculated by subtracting the forecast revenue collected via the Fixed BSUoS Price allocated to Total BSUoS Costs in Fixed Price Periods prior to Fixed Price Period t, from the latest forecast of Total BSUoS Costs, as calculated by applying the latest values to the formula in Paragraph 14.30.4, for those same Fixed Price Periods prior to Fixed Price Period t. This is inclusive of forecasted revenue collected from Final Reconciliation (RF) BSUoS Charges, pursuant to Paragraph 14.31.4.	Original, WACM1, 2, 5, 6 and 7
14.30.7 - $IBSUoS_{SFUND}_t = BSUoS_{var}_t - BWCF - fBSUoS_{TOT}_t (fBSUoS_{EXT}_t + fBSUoS_{INT}_t) - IBSUoS_{SFUND}_{t-1}$	Original, WACM1, 2, 5, 6 and 7
14.30.24 the word "fixed" needs to be capitalised to " Fixed "	All solutions

The Panel discussed the above legal text changes and agreed that the changes to CUSC 14.30.5 and 14.30.24 were typographical.

However, Panel agreed that changes to CUSC 14.30.7 needed to be further consulted on and agreed to run a 5 working day Code Administrator Consultation (from 3 February 2022 to 10 February 2022) ahead of the Draft Final Modification Report being re-presented to February 2022 CUSC Panel.

Following the Panel, a Panel Member also highlighted a further error in the CMP361 legal text. This impacts WACM3 and WACM4 only and simply removes the reference to the

BSUoS fund in CUSC 14.30.18, which shouldn't be in WACM3 and WACM4 as both of these options do not include a BSUoS fund.

The change is shown in red text:

*14.30.18 - If before or during a Fixed Price Period, The Company forecasts that it will neither recover sufficient funds through BSUoS Charges nor will it hold sufficient funds in the **Industry BSUoS Fund and the** BSUoS Working Capital Facility to meet balancing costs during that Fixed Price Period, The Company has the right to set a revised Fixed BSUoS Price for the entirety of or remainder of that Fixed Price Period.*

The Legal text for these modifications can be found in Annex 10.

Second Code Administrator Consultation Summary

The Second Code Administrator Consultation was issued on the 3 February 2022 and closed on 10 February 2022 and received 1 non-confidential response, which supported the changes to CUSC 14.30.7 and 14.30.18. This response can be found in Annex 14.

Panel Recommendation Vote

The Panel met on the 25 February 2022 to carry out their recommendation vote.

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

CMP361 Vote

Vote 1: Does the Original, WACM1/WACM2/WACM3/WACM4/WACM5/WACM6 or WACM7 facilitate the objectives better than the Baseline?

Panel Member: **Andrew Enzor**

	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	No	Yes
WACM1	Yes	Yes	Neutral	Neutral	No	Yes
WACM2	Yes	Yes	Neutral	Neutral	No	Yes
WACM3	Yes	Yes	Neutral	Neutral	No	Yes
WACM4	Yes	Yes	Neutral	Neutral	No	Yes
WACM5	Yes	Yes	Neutral	Neutral	No	Yes
WACM6	Yes	Yes	Neutral	Neutral	No	Yes
WACM7	Yes	Yes	Neutral	Neutral	No	Yes

Voting Statement

ACO(a): Better facilitated by the original and all WACMs. Competition will be better facilitated under all solutions as the need to manage volatile BSUoS cashflow is shifted to the ESO which is better placed to manage that risk than suppliers.

There is clearly a balance to be struck between fixed and notice period which enables ESO to set the charge with reasonable certainty while providing suppliers with a sufficient notice period. Solutions with a 9 month notice period and 6 month fix (WACMs 2, 3 and 6) best strike this balance.

The BSUoS fund will be detrimental to competition as the suppliers which contribute to the fund (particularly in the early years) will do so for the benefit of future suppliers. But mid-term tariff resets would be more detrimental to competition. So I believe the fund is necessary to achieve a high level of certainty that mid-term resets will not be required.

The risk of a mid-term reset while the fund is being initially accrued is a clear weakness of all solutions but is unavoidable given to avoid it the fund would have to be established on "day 1" which is clearly not feasible. Solutions which accrue the fund over two years (Original and WACMs 1 and 2) best resolve this weakness, so I believe are most favourable against this objective.

As WACM2 strikes the right balance between fix and notice and overcomes the initial risk of mid-term reset quickly, it is the best option against this objective.

ACO(b): As concluded by the Task Force, BSUoS should be treated as a cost recovery charge. The current arrangements give a non-cost reflective signal in some instances which will be removed by all solutions.

ACO(e): All solutions will increase administrative requirements for forecasting, fund management, k-factor calculation etc. which is not necessary under current arrangements. However, the benefit to competition more than offsets this detriment in all solutions.

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	Yes	Neutral	Yes	Yes
WACM1	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM2	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM3	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM4	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM5	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM6	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM7	Yes	Neutral	Yes	Neutral	Yes	Yes

Voting Statement

We are supportive of the principle behind CMP361 of fixing BSUoS prices ahead of time. Fixing BSUoS significantly decreases risk for Suppliers and reduces the risk premium that needs to be added to consumers prices. As BSUoS is a "residual" price and does not provide a cost reflective price signal, there is no detriment to consumers by fixing it ahead of time and it is more efficient for the ESO to manage this risk on behalf of industry. This change therefore better meets applicable objective (a) That compliance with the use of system charging methodology facilitates effective competition in the generation and supply of electricity. We also assess this modification as better meeting applicable objective (c) by properly taking account of the developments in transmission licensees' transmission businesses and (e) by promoting efficiency in the implementation and administration of the use of system charging methodology.

Although we assess the original and all the WACMs as better than baseline, we have concern whether the BSUoS fund is required and if so whether it is delivering sufficient value for consumers. The BSUoS taskforce did not recommend a BSUoS fund and the supporting analysis by Frontier does not provide supporting evidence for a BSUoS fund. It is therefore not clear that a BSUoS fund is overall in the interests of consumers. Frontier assume no net impact on consumers due to the assumption that fixed charges overall recover the same amount as under variable charges. However, as the BSUoS fund (which is described as 'industry funded') is in fact recovered through temporarily increased BSUoS tariffs paid for by customers through increased bills, it is unclear to what extent this erodes the customer benefits assumed to arise from fixing BSUoS prices.

Panel Member: **Binoy Dharsi**

	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	Neutral	Yes
WACM1	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM2	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM3	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM4	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM5	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM6	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM7	Yes	Yes	Neutral	Neutral	Neutral	Yes
Voting Statement						
Any option that allows for BSUoS to be fixed in advance would assist suppliers in providing the lowest risk to consumers. NG ESO forecast needs to be significantly improved to allow for fixed charges to be trusted.						

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	Neutral	Neutral	Neutral	Yes
WACM1	Yes	Neutral	Neutral	Neutral	Neutral	Yes
WACM2	Yes	Neutral	Neutral	Neutral	Neutral	Yes
WACM3	Yes	Neutral	Neutral	Neutral	Neutral	Yes
WACM4	Yes	Neutral	Neutral	Neutral	Neutral	Yes
WACM5	Yes	Neutral	Neutral	Neutral	Neutral	Yes
WACM6	Yes	Neutral	Neutral	Neutral	Neutral	Yes
WACM7	Yes	Neutral	Neutral	Neutral	Neutral	Yes
Voting Statement						
<p>I welcome the attempt to create more effective BSUoS charging arrangements. However, the use of a BSUoS fund makes the modification proposal feel like a bit of a wasted opportunity compared to what, I suspect, most of the BSUoS Taskforce had envisaged. However, in the absence of anything else, all the CMP361 options are far superior than the Baseline. For the same reasons provided by the Proposer and most stakeholders, I believe the Original and all WACMs better facilitate Applicable CUSC Objective (a). In absence of greater ESO funding, the use of a BSUoS fund is a 'necessary evil' to ensure that BSUoS price adjustments are limited as far as possible.</p> <p>Therefore, the Original, WACM1 and WACM2 are preferable in this regard. I also believe that options employing relatively longer notice periods are preferable which means that WACM1 and WACM2 are preferable compared to the Original. Overall, I think that WACM2 is the best, albeit slightly, representing a compromise of sorts between the two notice period 'extremes' (The Original employing 3 months and WACM1 employing 12 months).</p>						

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	Neutral	Yes	Neutral	Yes	Yes
WACM1	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM2	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM3	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM4	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM5	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM6	Yes	Neutral	Yes	Neutral	Yes	Yes
WACM7	Yes	Neutral	Yes	Neutral	Yes	Yes

Voting Statement

The Original and all the WACMs will all better facilitate Applicable Objectives (a), (c) and (e) for the reasons set out in the Workgroup Report and taking into account the analysis provided by the 2nd BSUoS Taskforce. Responses to the Code Administrator Consultation have also identified a number of additional aspects which further show the beneficial nature of the changes (in terms of the relevant Applicable Objectives). In respect of Applicable Objectives (b) and (d) the Original and all the WACMs are neutral. Of all the options WACM1 is, overall, Best.

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	Neutral	Yes
WACM1	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM2	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM3	Neutral	Yes	No	Neutral	Neutral	No
WACM4	Neutral	Yes	No	Neutral	Neutral	No
WACM5	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM6	Yes	Yes	Neutral	Neutral	No	Yes
WACM7	Yes	Yes	Neutral	Neutral	No	Yes

Voting Statement

Solutions which do not have a BSUoS fund to not mitigate against the risk of mid-period tariff changes and so do not present a sufficient reduced risk premia to industry parties compared to the Baseline. WACMs 3 and 4 are therefore neutral against ACO a) as their risk premia will continue to affect price discovery and therefore competition. Other WACMs will remove (or significantly reduce) this risk premia, facilitating more effective competition between BSUoS parties, so are positive against ACOa). WACMs which collect the BSUoS funding through longer periods are less positive against ACOa) as the risk of mid-period tariff change will remain for longer, so there will be continued risk premia.

WACMs 6 and 7 with a capped recovery are negative against ACO e) as that figure may not allow the ESO to rebuild the fund within an appropriate time and so may require Urgent modifications, creating a shock to the industry which is likely to be on

top of whatever initial conditions caused the fun to be used up. As the nature of balancing costs change, it does not seem suitable to define a fixed cap which may quickly become inappropriate.

All solutions are slightly positive against ACO b), as it was established by the Balancing Task Force that a half hourly varying BSUoS tariff is not reflective of some of the ESOs costs, which are over longer periods (EFA blocks for some ancillary services to annual for ESO internal costs). The variation in half-hourly BSUoS tariffs is due in part to the changing demand base, so removing this element on a half hourly scale will make the charge more reflective of the balancing costs.

WACMs 3 and 4 which do not have a BSUoS fund are negative against ACO c) as the ESO is meant to be a financially neutral party and it does not seem appropriate for the ESO's working capital to entirely bear the risk from industry. The BSUoS fund could be thought of analogous to socialised insurance, to cover industry acting in an unexpected manner.

Panel Member: **Jenny Doherty**

	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
WACM1	No	Neutral	No	Neutral	Yes	No
WACM2	Yes	Neutral	Neutral	Neutral	Yes	Yes
WACM3	No	Neutral	Neutral	Neutral	Yes	No
WACM4	No	Neutral	No	Neutral	Yes	No
WACM5	No	Neutral	Neutral	Neutral	No	No
WACM6	No	Neutral	Neutral	Neutral	No	No
WACM7	No	Neutral	No	Neutral	No	No

Voting Statement

For ACO (a) the main consideration has been reducing the need for tariffs being reset. The last few months have provided particularly challenging for the market, and I believe this places extra emphasis on the need to provide as much market certainty as possible by reducing the need for tariff resets wherever possible. The original and WACM2 are therefore the only positive options against ACO(a) as they provide a much closer to real time view of the market when setting tariffs, which means a much more accurate forecast. For WACMS 1, 4 and 7, these are negative due to the long notice period required, which will be very challenging to forecast tariffs over. WACMs 3, 4, 6 and 7 are negative as they provide no BSUoS fund or build this up over a longer period which increases the risk of tariffs being reset. All options are neutral under ACO (b) and (d). For ACO (c), we note that WACMs 1, 4 and 7 are much less cost reflective, and therefore negative, due to the longer notice period where forecasting will be challenging. For ACO (e) the majority of options are positive against this objective as it simplifies the current charging methodology. Under WACMs 5,6 and 7, this is negative, as there will likely be additional complexity for parties understanding the variability exposure in each year as this changes so frequently.

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	Yes	Neutral	Neutral	Neutral	Yes
WACM1	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM2	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM3	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM4	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM5	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM6	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM7	Yes	Yes	Neutral	Neutral	Neutral	Yes

Voting Statement

All proposals better facilitate the ACO (a) and (b) - On ACO(a) the proposals will create a level playing field reducing the volatility created through inaccurate forecasts and will enable fixed tariffs with a reduced risk premia. ACO (b) Reconciling over time with over/under-recovery helps smooth the impact of volatility and therefore improves accuracy of charges

Justification for Best Option: Not all of the options meet the objectives equally. The Original Proposal and WACM5 are the best options to meet objective A. However, WACM5 is the preferred option as it reduces the risk for suppliers and their consumers. While WACM1, WACM4 and WACM7 meet objective A they are limited in their improvement as they are only fixed for 3 months, irrespective of the notice period (The timescale has to meet the price cap window as a minimum to avoid unintended impacts on suppliers and their consumers). While WACM2, WACM3 and WACM6 meet the objectives they have increased risk of fluctuations for suppliers and their consumers. Accuracy of forecasts by the ESO remains key to whichever option Ofgem decide to approve.

Panel Member: **Mark Duffield (Alternate for 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	Yes	Neutral	Neutral	Neutral	Yes
WACM1	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM2	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM3	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM4	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM5	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM6	Yes	Yes	Neutral	Neutral	Neutral	Yes
WACM7	Yes	Yes	Neutral	Neutral	Neutral	Yes

Voting Statement

Overall, I believe that all options presented better facilitate the Applicable CUSC Objective compared to the current baseline. My preferred option in WACM2, noting that the 9N6F format of 9 months' notice and 6 months of fixed prices was analysed as offering greatest benefit to consumers. I also believe that the existence of a BSUsOs

Fund is an important element. Fixing BSUoS has the primary intent of reducing risk premia from uncertain future charges. The BSUoS fund importantly reduces the residual risk of the Fixed BSUoS charge from having to be amended within year and so should further reduce any residual risk premia being applied. Granted this is not without some additional cost as it is built up, but this cost needs to be judged against the costs of the residual risk premia, and I do not feel a case has been set out that says that the costs of a BSUoS fund will be greater than the residual risk premia cost. WACM2 as it sets a 9N6F structure with a BSUoS fund is therefore the option I judge to be best.

Vote 2 – Which option is the best?

Panel Member	BEST Option?	Which objectives does this option better facilitate? (If baseline not applicable).
Andrew Enzor	WACM2	(a), (b)
Andy Pace	WACM4	(a), (c), (e)
Binoy Dharsi	Original	(a), (b)
Cem Suleyman	WACM2	(a)
Garth Graham	WACM1	(a), (c), (e)
Grace March	Original	(a), (b)
Jenny Doherty	Original	(a)
Joe Dunn	WACM5	(a), (b)
Mark Duffield (Alternate for Paul Jones)	WACM2	(a), (b)

Panel Conclusion

CMP361

The Panel unanimously recommended that both the CMP361 Original and WACM2 better facilitated the CUSC objectives than the current CUSC. They also by majority recommended that WACM1, WACM3, WACM4, WACM5, WACM6 and WACM7 better facilitated the CUSC objectives than the current CUSC.

CMP362 Vote

Vote 1: Does the Original, WACM1/WACM2/WACM3/WACM4/WACM5 or WACM6 facilitate the objectives better than the Baseline?

Panel Member: **Andrew Enzor**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Neutral	Neutral	Yes	Yes
WACM1	Neutral	Neutral	Neutral	Yes	Yes
WACM2	Neutral	Neutral	Neutral	Yes	Yes
WACM3	Neutral	Neutral	Neutral	Yes	Yes
WACM4	Neutral	Neutral	Neutral	Yes	Yes
WACM5	Neutral	Neutral	Neutral	Yes	Yes
WACM6	Neutral	Neutral	Neutral	Yes	Yes

Voting Statement

All solutions may better facilitate ACO(d) depending on if a CMP361 WACM is approved, and if so, which one. The corresponding CMP362 WACM will facilitate efficient implementation of the relevant CMP361 WACM. WACM2 selected as the best option as it corresponds with CMP361 WACM2, identified as the preferred option in the corresponding CMP361 vote.

Panel Member: **Andy Pace**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Neutral	Neutral	Yes	Yes
WACM1	Neutral	Neutral	Neutral	Yes	Yes
WACM2	Neutral	Neutral	Neutral	Yes	Yes
WACM3	Neutral	Neutral	Neutral	Yes	Yes
WACM4	Neutral	Neutral	Neutral	Yes	Yes
WACM5	Neutral	Neutral	Neutral	Yes	Yes
WACM6	Neutral	Neutral	Neutral	Yes	Yes

Voting Statement

We are supportive of CMP362 to the extent that it is required to implement CMP361. Our preference is for WACM4 for the reasons set out in our CMP361 voting statement.

Panel Member: **Binoy Dharsi**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Neutral	Neutral	Yes	Yes
WACM1	Neutral	Neutral	Neutral	Yes	Yes
WACM2	Neutral	Neutral	Neutral	Yes	Yes
WACM3	Neutral	Neutral	Neutral	Yes	Yes
WACM4	Neutral	Neutral	Neutral	Yes	Yes
WACM5	Neutral	Neutral	Neutral	Yes	Yes
WACM6	Neutral	Neutral	Neutral	Yes	Yes
Voting Statement					
All options facilitate the implementation of associated CMP361 proposals.					

Panel Member: **Cem Suleyman**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Neutral	Neutral	Yes	Yes
WACM1	Neutral	Neutral	Neutral	Yes	Yes
WACM2	Neutral	Neutral	Neutral	Yes	Yes
WACM3	Neutral	Neutral	Neutral	Yes	Yes
WACM4	Neutral	Neutral	Neutral	Yes	Yes
WACM5	Neutral	Neutral	Neutral	Yes	Yes
WACM6	Neutral	Neutral	Neutral	Yes	Yes
Voting Statement					
I believe that all options better facilitate Applicable CUSC Objective (d) for the same reasons as provided by the Proposer. As all options are required to facilitate the various CMP361 solutions, this means I do not have a favoured CMP362 option.					

Panel Member: **Garth Graham**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Neutral	Neutral	Yes	Yes
WACM1	Neutral	Neutral	Neutral	Yes	Yes
WACM2	Neutral	Neutral	Neutral	Yes	Yes
WACM3	Neutral	Neutral	Neutral	Yes	Yes
WACM4	Neutral	Neutral	Neutral	Yes	Yes
WACM5	Neutral	Neutral	Neutral	Yes	Yes
WACM6	Neutral	Neutral	Neutral	Yes	Yes
Voting Statement					
As a facilitating Modification (for CMP361) the Original and all the WACMs will all better facilitate the Applicable Objectives for the reasons set out in CMP361 (for the reasoning I have provided for that modification).					

Panel Member: **Grace March**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Yes	Neutral	Neutral	Yes
WACM1	Neutral	Yes	Neutral	Neutral	Yes
WACM2	Neutral	Yes	Neutral	Neutral	Yes
WACM3	Neutral	Neutral	Neutral	Neutral	No
WACM4	Neutral	Neutral	Neutral	Neutral	No
WACM5	Neutral	Yes	Neutral	No	Yes
WACM6	Neutral	Yes	Neutral	No	Yes

Voting Statement

All solutions are neutral against ACOa) as they represent an efficient way for the ESO to recover the appropriate costs from industry. WACMs 3 and 4, which do not have a fund, have a much higher chance of mid-period tariff change and therefore the current uncertainty around BSUoS prices and associated impact on competition will remain. All solutions are neutral against ACO c). WACMs 5 & 6, with a fixed recovery cap, are not suitable as it is not sufficiently future-proofed, given the changing nature of balancing actions/markets and so this figure is likely to need correcting or updating in the future, potentially as an Urgent modification if the BSUoS fund is used up. This urgency will be on top of whatever circumstances caused the draw on the BSUoS fund, so would not be good for the CUSC or the industry. We have seen recently how disruptive fixed figures can be. There are therefore negative against ACO d).

Panel Member: **Jenny Doherty**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Neutral	Neutral	Yes	Yes
WACM1	Neutral	Neutral	Neutral	Yes	Yes
WACM2	Neutral	Neutral	Neutral	Yes	Yes
WACM3	Neutral	Neutral	Neutral	Yes	Yes
WACM4	Neutral	Neutral	Neutral	Yes	Yes
WACM5	Neutral	Neutral	Neutral	Yes	Yes
WACM6	Neutral	Neutral	Neutral	Yes	Yes

Voting Statement

All WACMs are positive against the baseline, under objective d, as they are required to implement the associated CMP361 legal text.

Votes on the detail of the solution itself have been covered through CMP361.

Panel Member: **Joe Dunn**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Yes	Neutral	Neutral	Yes
WACM1	Neutral	Yes	Neutral	Neutral	Yes
WACM2	Neutral	Yes	Neutral	Neutral	Yes
WACM3	Neutral	Yes	Neutral	Neutral	Yes
WACM4	Neutral	Yes	Neutral	Neutral	Yes
WACM5	Neutral	Yes	Neutral	Neutral	Yes
WACM6	Neutral	Yes	Neutral	Neutral	Yes

Voting Statement

For the reasons provided in CMP361 ACO(a), I believe that the same applies to ACO(b) for CMP361, noting that 362 is an enabler for CMP361.

Panel Member: **Mark Duffield (Alternate for Paul Jones)**

	Better facilitates AO (a)?	Better facilitates AO (b)?	Better facilitates AO (c)?	Better facilitates AO (d)?	Overall (Y/N)
Original	Neutral	Neutral	Neutral	Yes	Yes
WACM1	Neutral	Neutral	Neutral	Yes	Yes
WACM2	Neutral	Neutral	Neutral	Yes	Yes
WACM3	Neutral	Neutral	Neutral	Yes	Yes
WACM4	Neutral	Neutral	Neutral	Yes	Yes
WACM5	Neutral	Neutral	Neutral	Yes	Yes
WACM6	Neutral	Neutral	Neutral	Yes	Yes

Voting Statement

In line with my overall assessment of the CMP361 Original and WACMs I judge all of the CMP362 Original and WACMs on the same basis, with WACM2 being in my opinion the best option for both amendment proposals.

Vote 2 – Which option is the best?

Panel Member	BEST Option?	Which objectives does this option better facilitate? (If baseline not applicable).
Andrew Enzor	WACM2	(d)
Andy Pace	WACM4	(d)
Binoy Dharsi	N/A	-
Cem Suleyman	N/A	-
Garth Graham	N/A	-
Grace March	Original	(b)
Jenny Doherty	Original	(d)
Joe Dunn	N/A	-
Mark Duffield (Alternate for Paul Jones)	WACM2	(d)

Panel Conclusion**CMP362**

The Panel unanimously recommended that the CMP362 Original, WACM1, WACM2, WACM5 and WACM6 better facilitated the CUSC objectives than the current CUSC. They also by majority recommended that WACM3 and WACM4 better facilitated the CUSC objectives than the current CUSC.

Acronyms, key terms and reference material

Acronym / key term	Meaning
BSC	Balancing and Settlement Code
BSUoS	Balancing Services Use of System
BSUoS Fund	The Original proposal is to place a cap on the ESO's total support via its working capital facility (WCF) and form an industry funded BSUoS Fund to ensure an agreed probability of tariffs being reset is covered. This would be collected as part of the BSUoS tariff.
CMP	CUSC Modification Proposal
CUSC	Connection and Use of System Code
LCCC	Low Carbon Contracts Company
SCR	Significant Code Review
CVA	Central Volume Allocation
DNO	Distribution Network Operator
DUoS	Distribution Network Use of System
EBR	Electricity Balancing Regulation
ESO	Electricity System Operator
Ex ante	"before the event" (Latin)
LCCC	Low Carbon Contracts Company
RCRC	Residual Cashflow Reallocation Cashflow
RIIO2	Price Control Period
SCR	Significant Code Review
SQSS	Security and Quality of Supply Standards

STC	System Operator Transmission Owner Code
SVA	Supplier Volume Allocation
T&Cs	Terms and Conditions
TCR	Targeted Charging Review
TNUoS	Transmission Network Use of System
WCF	Working Capital Facility

Annexes

Annex	Information
Annex 1	Proposal forms
Annex 2	Terms of reference
Annex 3	Consideration of other finance options
Annex 4	Frontier Economics Report
Annex 5	ESO response to Frontier Economics Analysis
Annex 6	Licence vs CUSC slides
Annex 7	Workgroup Consultation Responses
Annex 8	Workgroup Consultation Responses Summary
Annex 9a	CMP361 Workgroup Alternative CUSC Modifications
Annex 9b	CMP362 Workgroup Alternative CUSC Modifications
Annex 10	CMP361 & CMP362 Legal text
Annex 11a	CMP361 Workgroup Vote
Annex 11b	CMP362 Workgroup Vote
Annex 12	CMP361 & CMP362 First Code Administrator Consultation Responses Summary
Annex 13	CMP361 & CMP362 First Code Administrator Consultation Responses
Annex 14	CMP361 & CMP362 Second Code Administrator Consultation Responses