GC0139

18 August 2023

Online Meeting via Teams


WELCOME

Objectives and Timeline

Chair – ESO Code Administrator

Objectives

- Review Timeline
- Progress update
- DDSG Support & ITT
- Agree next steps

Timeline for GC0139 as at 18 August 2023

Milestone	Date	Milestone	Date
Check In Meeting	4 October 2022	Workgroup report issued to Panel	17 January 2024
Workgroup meeting 14 – Review updated solution and updates from subgroup	12 January 2023	Panel sign off that Workgroup Report has met its Terms of Reference	25 January 2024
Workgroup meeting 15 – Review Subgroup progress	3 May 2023	Code Administrator Consultation (15 Working Days)	30 Jan – 20 Feb 2024
Workgroup meeting 16 - Review Subgroup progress	18 August 2023	Draft Final Modification Report (DFMR) issued to Panel	21 February 2024
Workgroup meeting 17 - Review Subgroup progress	12 September 2023	Panel undertake DFMR recommendation vote	29 February 2024
Workgroup meeting 18 - Review legal text and workgroup consultation document	10 October 2023	Final Modification Report issued to Panel to check votes recorded correctly (5 working days)	8 Mar – 15 Mar 2024
Showstopper Meeting	16 November 2023	Final Modification Report issued to Ofgem	18 March 2024
Workgroup Consultation (15 Working Days)	23 Nov-7 Dec 2023	Ofgem decision	TBC
Workgroup 19 – Review consultation responses	20 December 2023	Implementation Date	10 working days following Ofgem decision
Workgroup 20 - Review any changes required to solutions, hold Workgroup vote	9 January 2024		

Terms of Reference

Chair – ESO Code Administrator

Terms of Reference

Workgroup Term of Reference	Location in Workgroup Report (to be completed at Workgroup Report stage)
1.Implementation and costs;	
2.Review draft legal text should it have been provided. If legal text is not submitted within the Grid Code Modification Proposal the Workgroup should be instructed to assist in the developing of the legal text;	
3.Consider whether any further Industry experts or stakeholders should be invited to participate within the Workgroup to ensure that all potentially affected stakeholders have the opportunity to be represented in the Workgroup. Demonstrate what has been done to cover this clearly in the report	
4.Be aware of and consider cross code impacts, and consider co-ordinate submission and implementations	
5.Consider EBR implications	
6.Consideration of any unintended consequences of effectively redefining the observability area	
7.Consider the Ofgem Letter of 10 January 2022	
8.Consider any implications of GC0117; and	
9.Consider any temporary governance arrangements required prior to any formal governance being in place	

Progress Update

Ian Povey

DDSG Support & ITT

Ian Povey

electricity north west

Bringing energy to your door

GC0139

Data Exchange Options

Stay connected...

www.enwl.co.uk

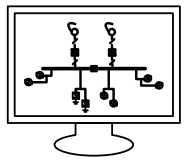
Cardinal Point Requirements of PC9 Data Submissions

Grid Code Submission	Demand/Generation Cardinal Point
Week 28	GB NETS Peak
	GSP Peak
Week 2	GB NETS Minimum
	Access Period GSP Summer Minimum GSP Summer Daylight Minimum

- All ETI cardinal point in time data to be submitted with week 2 /28 submission. Only generation additions and removals need to be provided at the time of an ETI submission in the accompanying Appendix G. ETI submission will include a CIM model showing the revised structural data populated with Y0 demand data.
- The following slides detail options for the combination of CIM format and excel schedule (or CIM table) submissions that deliver the above requirements in week 28 and week 2. For illustrative purposes these slides assume a typical DNO Licence area to have 20 GSPs that each have 6 connected BSPs.

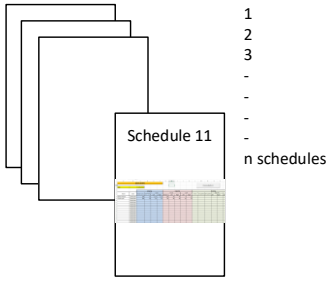
Option 1 – Minimum number of CIM files, augmented with BSP Schedules to reflect all the forecast scenarios

Week 28 GB NETS Peak Submission



1 CIM file Submission

BSP Outturn Representation

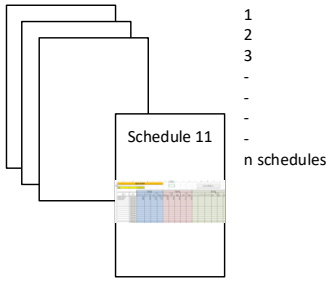


120 Data Tables Submission

Detailing BSP Outturn and 8 year forecast (at GB NETS Peak)

Week 28 GSP Peak Submission

No CIM file submission



120 Data Tables Submission

Detailing BSP Outturn and 8 year forecast (at GSP Peak)

Week 28 (Summary)

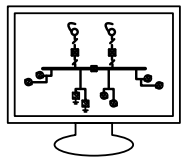
1 CIM file

240 data tables

Note: It may be possible to present the data in the 240 (excel) data tables via a Steady State Hypothesis (SSH) file, but this would require extra DNO resource to convert the excel data files in to a SSH format.

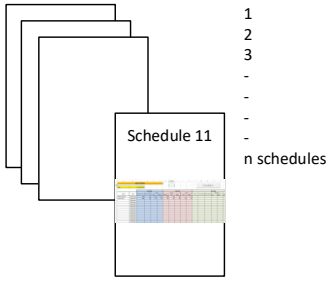
Option 1 - Continued

Week 2 GB NETS Minimum Submission



1 CIM file Submission

BSP Outturn Representation

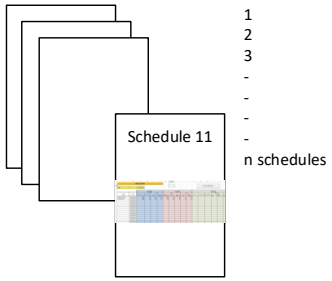


120 Data Tables Submission

Detailing BSP Outturn and 8 year forecast (at NETS Minimum)

Week 2 Access Period Submission

No CIM file submission



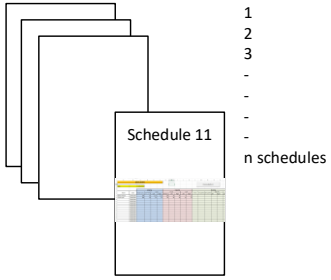
120 Data Tables Submission

Detailing BSP Outturn (at GSP Access Period Peak) and 8 year forecast

Option 1 - Continued

Week 2 GSP Summer Minimum Submission

No CIM file submission

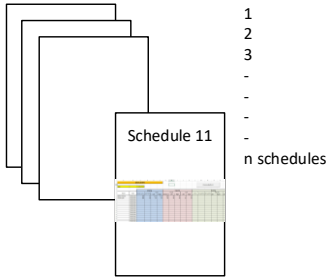


120 Data Tables Submission

Detailing BSP Outturn and 8 year forecast (at GSP Summer Minimum)

Week 2 GSP Summer Daylight Minimum Submission

No CIM file submission



120 Data Tables Submission

Detailing BSP Outturn and 8 year forecast (at GSP Summer Daylight Minimum)

Week 2 (Summary)

1 CIM file

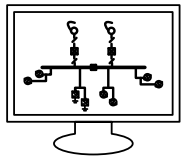
480 data tables

It may be possible to present the data in the 240 (excel) data tables via a Steady State Hypothesis (SSH) file, but this would require extra DNO resource to convert the excel data files in to a SSH format.

Option 2 – All Cardinal Point Scenarios in CIM files

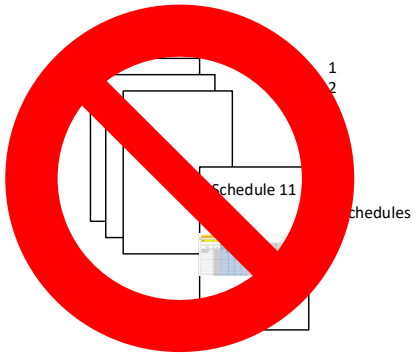
One CIM Model for each of year Yr0 (Outturn) and forecasts for Yr1, Yr5 & Yr10 for each Cardinal Point

Week 28 GB NETS Peak Submission



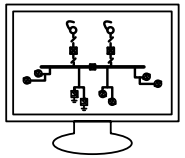
4 CIM files
Submission

BSP Outturn, Y1, Y5 & Y10 Representation

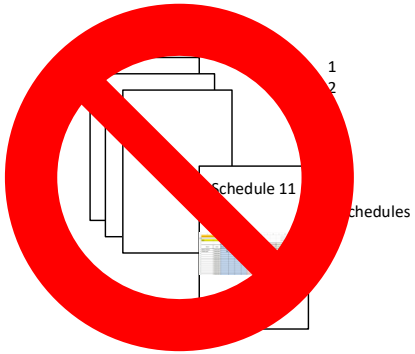


No Data Tables
Submission

Week 28 GSP Peak Submission



4 CIM files
Submission for each of 20 GSPs (total = 80)



No Data Tables
Submission

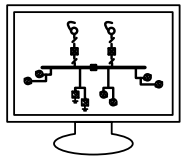
Week 28 (Summary)

84 CIM files

No data tables

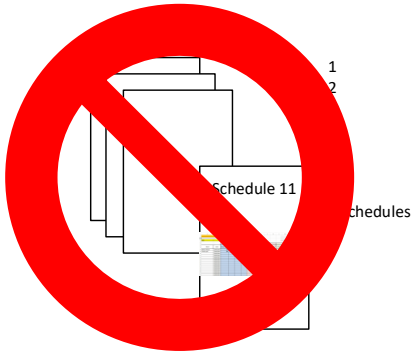
Option 2 - Continued

Week 2 GB NETS Minimum Submission



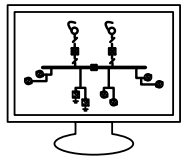
4 CIM file Submission

BSP Outturn, Y1, Y5 & Y10 Representation



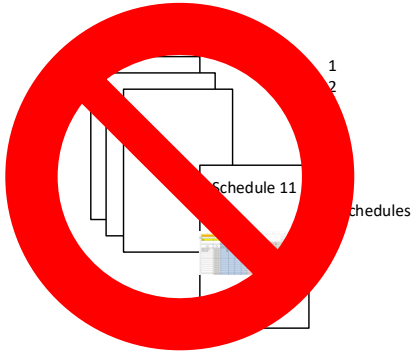
No Data Tables Submission

Week 2 Access Period Submission



4 CIM files Submission for each of 10 Access Groups (total=40)

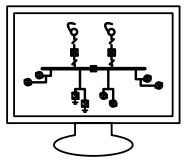
BSP Outturn, Y1, Y5 & Y10 Representation



No Data Tables Submission

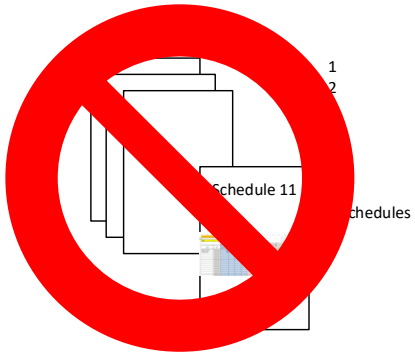
Option 2 - Continued

Week 2 GSP Summer Minimum Submission



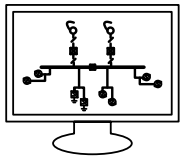
4 CIM file
Submission for each
of 20 GSPs (total=80)

BSP Outturn, Y1,
Y5 & Y10
Representation



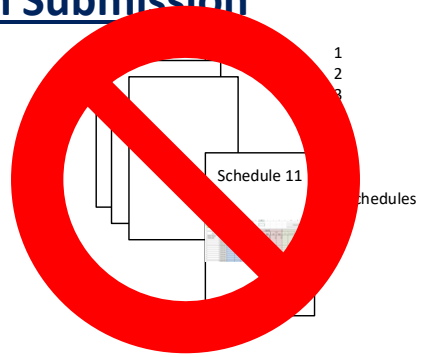
No Data Tables
Submission

Week 2 GSP Summer Daylight Minimum Submission



4 CIM file
Submission for each
of 20 GSPs (total=80)

BSP Outturn, Y1,
Y5 & Y10
Representation



No Data Tables
Submission

Week 2 (Summary)

204 CIM file

No data tables

Option 2

Option 2 – Summary.

Not considered viable due to the large number of CIM files that would need to be created and exchanged

Option 3

Option 3 – the use of Steady State Hypothesis (SSH) files which may be used reduce the need to either i) present different demand scenario data in excel spreadsheets (Option 1) or ii) reduce the number of CIM files that need to be exchanged (Option 2)

Steady State Hypothesis (SSH) file many be used to help reduce the volume of CIM files that would need to be compiled in Option 2 (assuming that its viable). This would be similar to Option 1 or 4, but the data tables would be captured within the CIM model package via a SSH file.

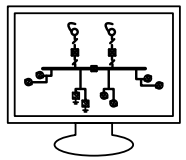
This should make compiling and using the information in the data tables easier.

A SSH file approach could be used as an alternative to providing 'paper based' Schedule 11 files – but there would be up to 10 SSH files to replace each of the Schedule 11 table – one for each forecast year.

We probably need to decide whether this approach to providing forecast data would be an option for DNOs or a mandated requirement in the code. This might be appropriate once DNOs and Users are comfortable and experienced using CIM data exchanges if its possible to automate the process.

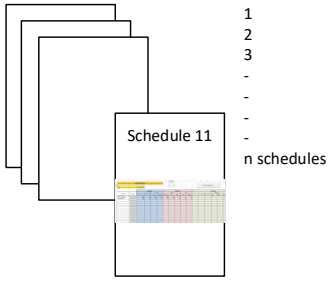
Option 4 – Minimum number of CIM files Augmented with BSP Schedules

Week 28 GB NETS Peak Submission



1 CIM file Submission

BSP Outturn Representation

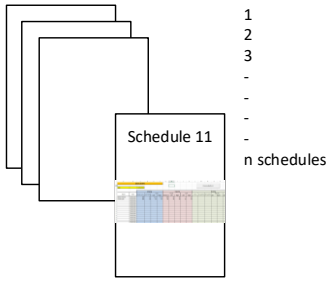


20 Data Tables Submission

Detailing GSP Outturn (at NETs Peak) and 8 year forecast

Week 28 GSP Peak Submission

No CIM format submission



20 Data Tables Submission

Detailing GSP Peak Outturn and 8 year forecast

Week 28 (Summary)

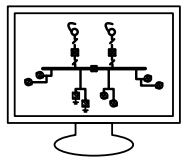
1 CIM Model

40 data tables

Note: ditto option 1 via SSH etc

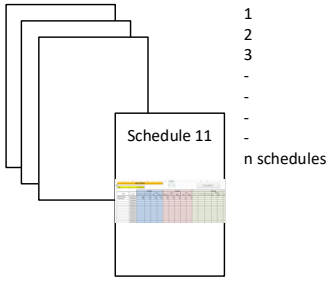
Option 4 - Continued

Week 2 GB NETS Minimum Submission



1 CIM format Submission

BSP Outturn Representation

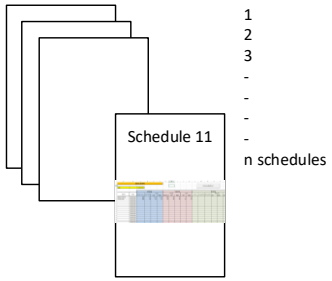


20 Data Tables Submission

Detailing GSP Outturn (at NETS Minimum) and 8 year forecast

Week 2 Access Period Submission

No CIM format submission



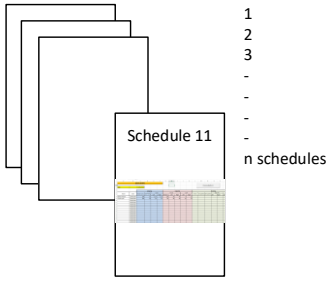
20 Data Tables Submission

Detailing GSP Outturn (at GSP Access Period Peak) and 8 year forecast

Option 4 - Continued

Week 2 GSP Summer Minimum Submission

No CIM format submission



20 Data Tables Submission

Detailing GSP Outturn (at GSP Summer Minimum) and 8 year forecast

Week 2 (Summary)

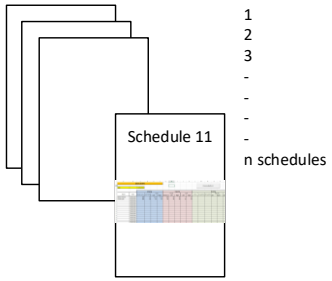
1 CIM Model

80 data tables

Note: ditto option 1 via SSH etc

Week 2 GSP Summer Daylight Minimum Submission

No CIM format submission



20 Data Tables Submission

Detailing GSP Outturn (at GSP Summer Daylight Minimum) and 8 year forecast

Summary – data exchange for week 2 / 28

Option	No. Cim Files	No. Data Tables
1	2	720
2	288	0
3	SSH*	SSH*
4	2	120

* SSH – Staedy State Hypothesis could be applied to Options 1, 2 & 4

Recommendations for GC0139 consideration

Option 4 – this is the emerging preferred option (subject to confirmation by NGET)

Implications of Option 4

SOW - All ETI cardinal point in time data to be submitted with week 2 submission. Only generation additions and removals need to be provided at the time of an ETI submission.

SQSS – (access group compliance)

Any Other Business

Chair – ESO Code Administrator

Next Steps

Chair – ESO Code Administrator