

# CMP393 - Using Imports and Exports to Calculate Annual Load Factor for Electricity Storage

**Workgroup 9 – 11 January 2024**

**Online Meeting via Teams**



# Objectives

Teri Puddefoot – ESO Code Administrator



## Objectives

- Review actions log
- Review timeline
- Review Terms of Reference
- Analysis review
- Legal Text review



# Review of Actions Log


Teri Puddefoot – ESO Code Administrator

## Actions Log

Action number	Workgroup	Owner	Action	Comment	Due by	Status
	<b>Raised</b>					
21	WG6	RDL	Discuss impact of charges with revenue team	To be completed for WG10	WG8	Open
26	WG7	RDL	Provide one off implementation costs to Zenobe	NA	WG8	Open
29	WG8	TP	Contact Proposer of Alternative Proposals for formal withdrawal	Completed	WG9	Open – propose to close
30	WG8	TP	Share Timeline and Terms of Reference with Panel for approval	Added to August 2023 Panel Papers	WG9	Open – propose to close
31	WG8	RN	Complete analysis on behaviour of storage and circulate this to Workgroup	NA	WG9	Open – propose to close
32	WG8	RN/AP	Catch up regarding legal text for updated solution prior to circulating this to Workgroup	Legal text circulated as part of WG9 papers	WG9	Open – propose to close

## Remaining Timeline for CMP393

Stage	Dates	Comments
Workgroup 8	17/08/23	Update on actions and next steps
Workgroup 9	11/01/24	Review solutions and legal text
Workgroup 10	07/02/24	Review Workgroup Report, complete Workgroup Vote
Workgroup Report to Panel	15/02/24	Panel 23/02/24
Post Workgroups		
Code Administrator Consultation	04/03/24 – 25/03/24	
Draft Final Modification Report to Panel	18/04/24	Panel 26/04/24
Final Modification Report to Panel to check Votes	30/04/24	
Final Modification to Ofgem / Appeals Window opened	09/05/24	Decision required by 30 Sep 24
Implementation Date	01/04/25	



# Analysis

## Zenobe



# Legal Text Review

Alison Price, ESO



# Definitions

Red text is what has been included in legal text

Definitions	Meaning in Code	Code
Electricity Generation	The process of generating electricity by a <b>Generator</b> .	CUSC
<b>Electricity Generation Facility</b>	Is a facility where <b>Electricity Generation</b> occurs as its sole function.	CUSC
Electricity Storage	The conversion of electrical energy into a form of energy which can be stored, the storing of that energy, and the subsequent reconversion of that energy back into electrical energy.	CUSC
<b>Electricity Storage Facility</b>	is a facility where <b>Electricity Storage</b> occurs as its sole function.	CUSC
Generator	As defined in the <b>Grid Code</b>	CUSC
Generator	A person who generates electricity or undertakes <b>Electricity Storage</b> under licence or exemption under the <b>Act</b> , acting in its capacity as a generator in <b>Great Britain</b> or <b>Offshore</b> . The term <b>Generator</b> includes a <b>EU Generator</b> and a <b>GB Generator</b>	Grid Code
Electricity Storage	The conversion of electrical energy into a form of energy which can be stored, the storing of that energy, and the subsequent reconversion of that energy back into electrical energy.	Grid Code
Pumped Storage	A hydro unit in which water can be raised by means of pumps and stored to be used for the generation of electrical energy;	Grid Code



# **Review Terms of Reference**

**Teri Puddefoot – ESO Code Administrator**

# CMP393 –Terms of Reference

## Workgroup Terms of Reference

- a) Consider Electricity Balancing Regulations implications
- b) Consider why this change only applies to a subset of storage technologies (i.e. battery and pumped storage).
- c) Undertake analysis on the behaviour of storage relative to the charging methodology of peak, year-round not shared, and year-round shared. This should include consideration of how storage acts in wholesale, balancing, and ancillary markets This should include consideration of duration of storage for management of constraints
- d) Consider any interactions with the TNUoS Taskforces, in-flight Modifications (CMP316,CMP331 and CMP405) and the current NETS SQSS review in terms of the treatment of storage
- e) Consider how CMP393 interacts with ESO's ongoing work on Construction Planning Assumptions for storage as part of the new Two Stage Offer process in England and Wales.
- f) Consider the appropriateness of the solution for both positive and negative charging zones.
- g) Consider whether the use of a 'net' as opposed to 'gross' ALF is consistent with the concept of 'Sharing' related to the Year Round Background.
- h) Consider the potential costs of implementing CMP393 to the ESO.
- i) Consider how implementing CMP393 would impact other parties and assets, including TNUoS charges.
- j) Consider whether it is necessary to create a new generation classification for storage.



## **AOB & Next Steps**

**Teri Puddefoot – ESO Code Administrator**