



## MARI Workgroup 8

Updating the Grid Code to include the Manually Activated Reserve Initiative (MARI)

# Agenda

- WG 7 Outputs
- NGESO MARI Reference Document - feedback
- DNO TOR
- Legal Text
- AOB



# Outputs from Workgroup 7



# Outputs from Workgroup 7

WG 7 Questions	Answers
Clarify the term "electronic highway" and the impact as the interconnectors do not have access to this (have to be member of ENTSO-E)	<p>The EH is a private network dedicated to data exchange among TSOs. A link below is to the ENTSO-E public downloads which has a policy document on EH: <a href="https://eepublicdownloads.entsoe.eu/clean-documents/pre2015/publications/entsoe/Operation_Handbook/Policy_6_final.pdf">https://eepublicdownloads.entsoe.eu/clean-documents/pre2015/publications/entsoe/Operation_Handbook/Policy_6_final.pdf</a></p> <p>The effect of 'EH' on the I/Cs will depend upon what are their preferences on how to receive the cross-border schedules from the platform i.e. as a file or as a real-time signal.</p> <p>If as a file:</p> <ul style="list-style-type: none"><li>• Use of Internet as PCN will not be available at MARI go live</li><li>• Discussions beginning between PCN and MARI project on future use of PCN</li><li>• Use of ECP and IEC 62325-503 MADES</li></ul> <p>If as a real-time signal:</p> <ul style="list-style-type: none"><li>• EH to be used as PCN will not be available at MARI go live<ul style="list-style-type: none"><li>• EH is already planned to be migrated into PCN by the PCN team</li><li>• The protocol to be used is TASE2 over EH and PCN</li><li>• Other protocols (IEC 60870-5-101 and 104) possible but the TSO would need to implement and monitor connections to Amprion</li></ul></li></ul>
Check that feasible and infeasible bids are clear in dispatch document	Information from central project - the MARI platform has various validations in place but those are only sanity checks on maximum offered volume. In principle, the TSO should validate and reject bids deemed infeasible before submitting to MARI (as part of the bid filtering process). This has been reflected in the dispatch document (as part of the bid filtering stage and instruction stage)
Check if parent-child bids work the same as TERRE and expand the explanation within the dispatch principles document.	Yes parent-child in MARI will work exactly the same as multipart bids in TERRE. Another example has been added to the dispatch document

# Outputs from Workgroup 7

WG 7 Outputs	Answers
Confirm that a separate Data Consistency document is being created as was for TERRE	NGESO will create a Data Consistency Document for MARI. It will be an update to the Data consistency and validation rules document. It will contain any new rules for MARI bids.
Check format which the data files will need to be sent/received for SA and DA (i.e. will there need to be separate files for SA and DA)	There will be separate documents output from the platform after each execution of the algorithm.
Action 35 – what happens if the interconnectors deviate from the cross-border schedule sent by Libra?	Internal meeting confirmed that the way we expect MARI to work with deviations is the same as it is currently, there would be no changes. Therefore, any imbalance will be picked up in the IC imbalance reports and passed to the IC as it is for TERRE and other SO-SO trades. This will also be covered in the System-to-System Flow Methodology, the BASA and the OP.
Confirm the preferred allocation process for interconnectors. I.e. based on what actually happened, based the block shape or based on the profiled shape (interconnectors)	<p>For TERRE, NGESO allocates volume via block profiles (the block of energy is then converted into a profile based on a set of business rules).</p> <p>It is likely that the same principles will adopted for MARI but further conversations are required internally and with the interconnections to make sure this solution is fit for purpose.</p>

# NGESO MARI Reference Document



# NGESO MARI Reference Document

- Version 3 sent out to the workgroup
- **Key updates:**
  - Now referred to as the 'NGESO MARI Reference Document'.
  - Updated the definitions section
  - Added another example to multi-part bids
  - Updated feasibility of bids wording (feasibility of bids pre and post AOF)
  - Clarified full activation time
  - Clarified 'direct only' bids
  - Clarified ramp data
  - Incorporated stakeholder feedback
- Feedback required from workgroup – is there anything else NGESO should include or expand on in this document?

# DNO Workgroup Discussion





# DNO Workgroup discussion

TOR (L)

*Consider if there are any implications, for example specific connection requirements, information / data exchange, for DNOs where the assets providing a MARI service are connected to a distribution network*

# Legal Text



# Thank you

