



Fast Frequency Response Initiative 30 May 2023





Purpose

This document has been prepared to support participant planning, should participants wish to engage in industry testing prior to commencement of the Very Fast FCAS markets.

- ❖ The contents of this document were presented at AEMO's <u>NEM Reform Implementation</u> <u>Forum</u> on 30 May 2023.
- This document may be updated as needed in the lead up to the Industry Testing period for FFR.
- ❖ An industry test plan is scheduled for release on 31st July 2023.

FFR: high-level impacts



The information presented here is general in nature. AEMO encourages industry participants to undertake their own due diligence to assess energy market reform impacts on their respective organisations.

SYSTEMS & PROCESSES	INDICATIVE PARTICIPANT CHANGE IMPACTS	AFFECTED PARTICIPANTS (TBC)												
		Generator	Sch. Load	SGA	IRP	FRMP (Market Cust)	TNSP	DNSP	MC	MDP	MP	ENM	MSRP	Vendors
REGISTRATION	LOW for those:New contingency FCAS providersExisting contingency FCAS providers	✓	√	√	√									
BIDDING & DISPATCH	 LOW level of process impact, including: Extending current bidding system to support Very Fast FCAS services New terms/info on constraint equations and dispatch outcomes 	✓	√	✓	✓									
RETAIL & METERING	NONE													
SETTLEMENTS	 LOW with: Extending to display new columns for invoicing reports 'Ancillary services' line item on billing PDF to include new services Impacts to all participants that consume settlement data 	✓	✓	√	√	√								

Generator	Generators					
Sch. Load	Scheduled loads					
SGA	Small generation aggregators					
IRP	Integrated resource providers					

FRMP	Financially responsible market participant					
TNSP	Transmission network service provider					
DNSP	Distribution network service provider					
MC	Metering coordinator					

MDP	Metering data provider				
MP	Metering provider				
ENM	Embedded network manager				
MSRP	Market SAPS resource provider				

Approach for Industry Test



Objectives

To optionally provide participants the opportunity to:

- prove their updated systems against AEMO's market systems.
- test end-to-end scenarios of updated processes and procedures.
- to contribute to their assessment of overall industry readiness for Rule commencement.

Approach

Industry test allows industry participants to further test their system with AEMO's.

In particular to:

- perform pre-prod demonstration of ability to submit bids for Very Fast FCAS as part of the Registration process to provide the new very fast FCAS services. (Applicants are established in pre-prod to perform this demonstration.) Submit and verify FCAS bids via the FTP, API, or Markets Portal 'Energy & FCAS 5min Bids' capability.
- ingest pre-dispatch and dispatch instructions, FFR enhancements to Wholesale Data Interchange MMS Data Model (DISPATCH, P5MIN, PREDISPATCH, TRADING_DATA, FORCE_MAJEURE packages).
- regression test bid, dispatch, and Wholesale Data Interchange functionality (participating and non-participating providers for the new services).
- test bidding processes and ensure automated energy/FCAS trading tools are working correctly.
- ingest Settlement changes for generators and load market customers showing recovery calculations for the new service i.e.,
 Settlement reports and data model via Wholesale Data Interchange (Settlement and Billing packages) and download via Settlements Direct (Markets Portal application).



Fast Frequency Response test timeframes

Item	Timing	
FFR Services registration commences (production)	9 th August	
Pre-dispatch to include FFR offers (pre-prod)	28th August	
5min Pre-dispatch to include FFR Offers (pre-prod)	3rd Sept	
FFR Offers included in Dispatch Instructions (pre-prod)	4th Sept	Dates indicative
Settlement run(s) in pre-prod (data approach and settlement week 36 TBC)	15 th / 18 th Sept	

- EMMS Data Model 5.2 currently available in pre-prod supports FFR.
 - Data population commences as per dates above



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