

Electricity Wholesale Consultative Forum (EWCF)

Meeting #4
18 April 2023



1. Welcome

We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture.

We pay respect to their Elders past, present and emerging.

Agenda

#	Time	Topic	Presenter(s)
1	1:00pm – 1:05pm	Welcome	Chris Muffett (AEMO)
2	1:05pm – 1:10pm	Actions & Feedback from Previous Meeting	Chris Muffett (AEMO)
4	1:15pm – 2:25pm	In-flight Reform Update: <ul style="list-style-type: none">• Integrated Energy Storage System (IESS)• Fast Frequency Response (FFR)• Frequency Performance Payments (FPP)• Enhancing information in MT PASA• Operational Security Mechanism	AEMO reform leads: <ul style="list-style-type: none">• Emily Brodie• Carla Ziser• Chris Muffett• Chris Muffett• Chris Muffett
5	2:25pm – 2:30pm	Other Reforms <ul style="list-style-type: none">• Identity and Access Management (IDAM)• Industry Data Exchange (IDX)• Portal Consolidation (PC)	Ulrika Lindholm (AEMO)
6	2:30pm – 2:35pm	Procedures Consultation Roadmap	Nicole Nsair (AEMO)
7	2.35pm – 2:45pm	Upcoming Engagements	Paul Johnson (AEMO)
8	2:45pm – 3:00pm	General Questions and Other Business	Chris Muffett (AEMO)

Appendix A: Competition law meeting protocol and AEMO forum expectations

Appendix B: Industry consultation schedule (IDAM IDX PC)

"Please note that this meeting will be recorded by AEMO and may be accessed and used by AEMO for the purpose of compiling minutes. By attending the meeting, you consent to AEMO recording the meeting and using the record for this purpose. No other recording of the meeting is permitted"

2. Actions & Feedback from Previous Meeting

Actions & Feedback from Previous Meeting



- No actions recorded from last meeting.

The latest meeting minutes and materials are available on the [NEM Reform Electricity Wholesale Consultative Forum](#) webpage.

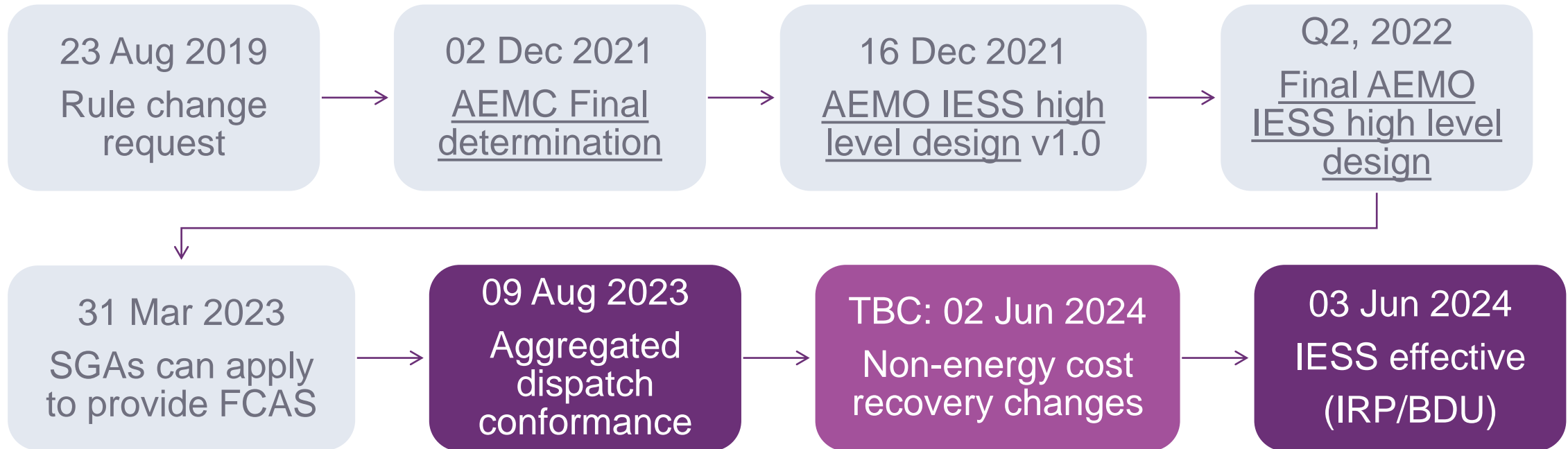
4. In-flight Reform Update

Integrating Energy Storage Systems (IESS)

Emily Brodie



Refresher: IESS high-level timeline

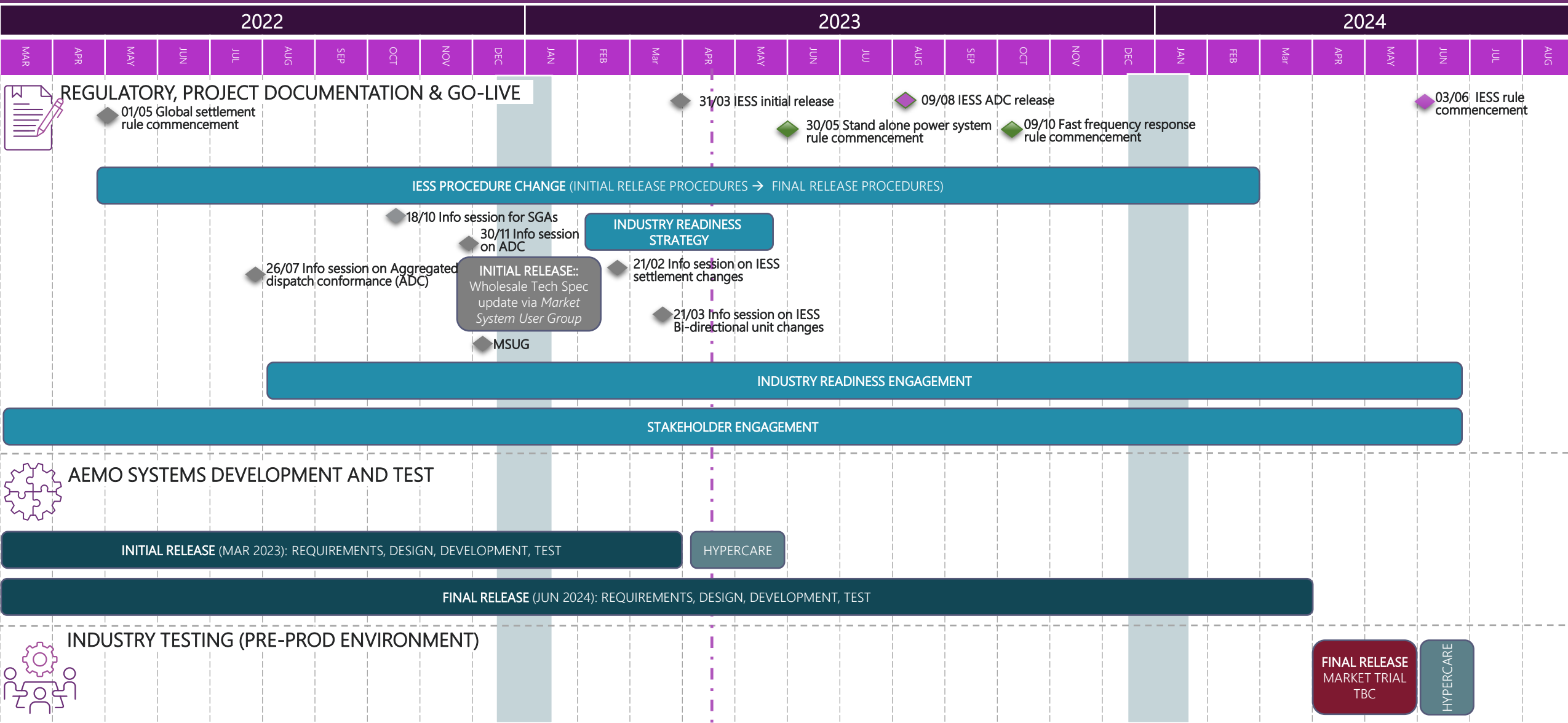


SGA	Small generation aggregator
FCAS	Frequency control ancillary service/s
IRP	Integrated resource provider
BDU	Bi-directional unit

REFERENCES

- [AEMC IESS rule change](#)
- [AEMC Implementing IESS rule change](#)
- [AEMO IESS High Level Design and Implementation Strawperson](#)
- [AEMO IESS Participant Toolbox](#)

IESS – Indicative Industry Timeline



IESS Confirmed	Concurrent initiatives	Summer holiday periods: Avoid industry IESS activities where possible	Market trial: Details TBC
IESS Indicative	Completed activities		

I ESS project update

Since last EWCF meeting

✓ Tue 21 Mar	I ESS bi-directional unit implementation workshop held
✓ Tue 28 Mar	Early industry readiness proposal discussed at Implementation Forum
✓ Thu 30 Mar	Consultation on Implementing I ESS rule change closed
✓ Fri 31 Mar	First of four I ESS releases successfully deployed <ul style="list-style-type: none"> • SGAs can deliver contingency FCAS in accordance with NER and AEMO's MASS
✓ Mon 03 Apr	Retail procedures consultation first round consultation closed <ul style="list-style-type: none"> • Draft report expected ~Mon 12 Jun

Key upcoming activities



Mid-April: Publish final [Guide to Generator Exemption & Classification of Generating Units](#)



Tue 26 Apr: I ESS readiness approach at [Implementation Forum](#)



Thu 04 May TBC: [Implementing I ESS](#) final determination and rule .



May TBC: Consultation opens for [I ESS procedure updates](#) for prudentials & dispatch.

IESS project contact



ieess@aemo.com.au



<https://aemo.com.au/initiatives/major-programs/integrating-energy-storage-systems-project>

Fast Frequency Response

Carla Ziser

Refresher on the FFR Rule

- Recap on the objective:
 - The AEMC has made a [final rule](#) to introduce two new services to help control frequency as the inertia of the power system reduces
 - The services will provide “very fast” contingency response, alongside the existing fast, slow and delayed services
 - They will also foster innovation in faster responding technologies, which become more important to support the energy transition
- The new very fast services will come into effect from 9 October 2023, at which time AEMO will implement a “requirement” for the services and FCAS providers will be enabled through dispatch processes

Procedures Update

PROCEDURE	TIMING
<p>Market Ancillary Services Specification (MASS) – this sets out the definition of the very fast service, and the technical requirements for providers.</p>	<p>The MASS consultation was finalised in October 2022.</p>
<p>Constraint Formulation Guidelines (CFG) – this sets out how AEMO will formulate FCAS requirements for the very fast service, as part of operating the dispatch, pre-dispatch and PASA processes.</p>	<p>Submissions on the draft report closed 12 April 2023. Final version of CFG scheduled to be published 22 June 2023.</p>
<p>Constraint Implementation Guidelines (CIG) – update to set out how constraint equations are implemented for the very fast service.</p>	<p>Submissions closed on 10 March 2023 – no submissions were received. Final version scheduled to be published on 20 April 2023.</p>
<p>Market Suspension Pricing Methodology (MSPM) – minor update for very fast service.</p>	<p>Final report published 2 March 2023.</p>

Readiness for Market Start

A draft of the Service Commencement Plan for FFR was published on 6th April 2023.

Registration process

- Facilitating registration of eligible FCAS providers prior to market start

Determining the FCAS requirement

- The approach to determining the amount of each service required under different power system conditions in order to maintain security (consistent with the Frequency Operating Standard)

Implementing the requirement

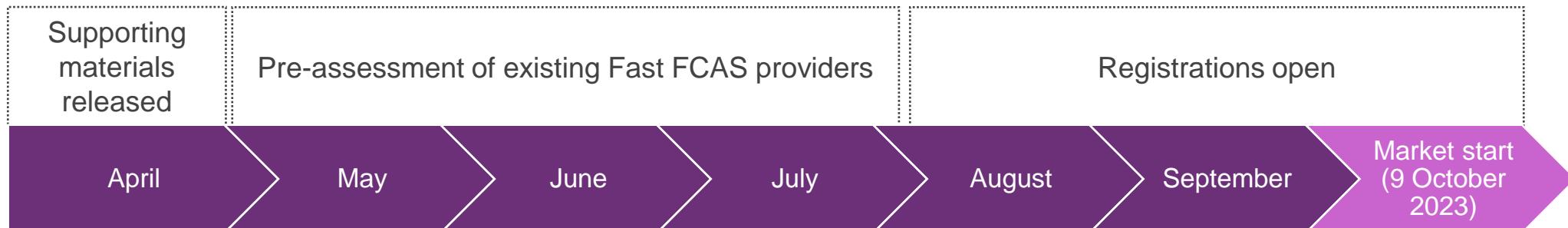
- The approach for transitioning from current FCAS requirements to the new model

Feedback on the [Draft Service Commencement Plan](#) can be provided by email to FFRconsultation@aemo.com.au, by COB 21 April 2023

Registration activities

AEMO has participant readiness arrangements in place to allow appropriate time and opportunity to register for Very Fast FCAS services in time for market commencement, with high level timeframes as follows:

- [Supporting materials](#) have been published to assist potential providers in assessing their capability for Very Fast FCAS, including technical guides and a response verification tool.
- From early May, AEMO will engage with existing Fast FCAS providers who wish to provisionally confirm their Very Fast FCAS maximum capacity, prior to the formal registration application being submitted.
- Registrations formally open on 9 August, from which date providers can submit registration applications via [AEMO | Registration](#)



Determining the requirement

- AEMO has developed an approach towards determining the quantity of very fast FCAS (R1 and L1) required to maintain frequency within the Frequency Operating Standard (FOS).
- This approach applies the FFR policy objectives, and the changes to the Market Ancillary Services Specification that were consulted on during 2022:
 - Supports a non-zero requirement for system normal conditions that is inertia-aware - that is, the presence of inertia will act to decrease the VF FCAS requirement.
 - Defines the 1s service as distinct from 6s service (and changing the definition of the 6s service accordingly)
- The requirement will be set dynamically based on RoCoF risk and determined as a ratio of the 6s (or fast) requirement as set out in the [AEMO | Constraints Implementation Guidelines](#)

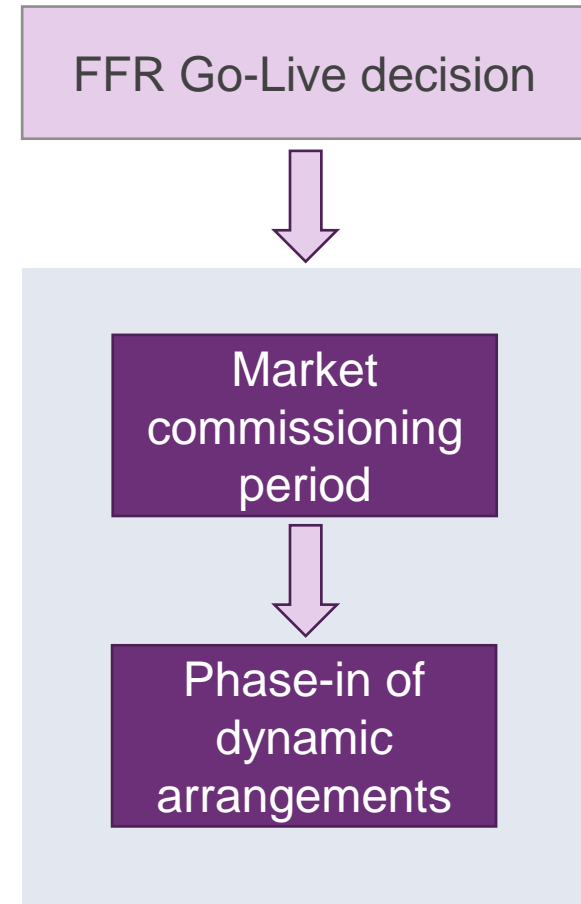
Further details on this approach are available in the Draft Service Commencement Plan.

Approach to very fast service introduction

AEMO flagged that there would be a progressive transition from existing Contingency FCAS arrangements to the future model with 8 Contingency FCAS services.

AEMO plans to introduce the VF FCAS markets as a two-stage process:

- 1 Commencing market operation with a system normal mainland NEM requirement for each of Raise and Lower Very Fast FCAS services at a static, nominal commissioning volume of 50 MW for an initial period of 2 weeks.
- 2 Phasing in the dynamic calculation of VF FCAS requirements, progressively increasing allowed requirement volumes while ensuring that sufficient capacity is registered and committed for VF FCAS market participation.



Next steps

- AEMO invites potential Very Fast FCAS participants to complete a confidential survey. This will assist with AEMO's preparations for market commencement.
- AEMO will soon release a final version of the Service Commencement Plan.
 - Feedback on the [Draft Service Commencement Plan](#) can be provided by email to FFRconsultation@aemo.com.au, by COB 21 April 2023.
- AEMO will also hold an Information Session in May for potential participants and other interested parties, to provide an overview of how participants can prepare for Registration and participation in the very fast FCAS services.
 - To register interest in attending this session please email FFRconsultation@aemo.com.au

Frequency Performance Payments

Chris Muffett



Implementation update and dates

- Submissions to the draft Procedure closed on 15th March. We are currently reviewing these submissions.
- FAQs and additional data is progressively being added to the consultation page.
- Final decision required by 8 June 2023.
- Go live 8 June 2025.
- Currently aiming to implement non-financial trial in December 2024.

Frequency Performance Payments (FPP) – Further information

- **AEMC rule**
 - <https://www.aemc.gov.au/rule-changes/primary-frequency-response-incentive-arrangements>
- **AEMO procedure consultation page**
 - <https://aemo.com.au/consultations/current-and-closed-consultations/frequency-contribution-factors-procedure>
- **FPP project page**
 - <https://aemo.com.au/initiatives/major-programs/frequency-performance-payments-project>
- **Email inbox**
 - FPPconsultation@aemo.com.au

Enhancing Information in MT PASA

Chris Muffett

Implementation Update

- Recap of the objective:
 - The AEMC has made a [final rule](#) to improve the quality and transparency of information that is collected and published about the future availability of generators as part of MT PASA
 - Generators will be required to provide additional unit state information and unit recall times, which AEMO will use and publish
- AEMO is implementing the rule through changes to procedures and systems, with the new arrangements commencing 9 October 2023

Procedure Consultation

- AEMO is consulting on changes to give effect to the rule, which primarily relates to the following procedures:
 - Reliability Standard Implementation Guidelines
 - MT PASA Process Description
- First round of consultation, AEMO received 7 submissions with no substantive issues raised with AEMO's implementation of the rule
- Second round of consultation, AEMO received 7 submissions
- A final determination and procedures are being prepared, with a target date for publication of 28 April 2023.
 - More information is available at:
 - <https://www.aemo.com.au/consultations/current-and-closed-consultations/2022-reliability-forecasting-guidelines-and-methodology>

Operational Security Mechanism

Chris Muffett

Rule Update

- Recap on the objective:
 - The OSM is a market-based process run in the short-term operational timeframe to value, compensate, and schedule essential system services (ESS) to meet power system security requirements.
 - At a high-level, it involves:
 - Definition of security services in the form of security configurations and/or separate services.
 - Accreditation of providers of security.
 - Introduction of a new optimisation solver to be run close to real-time that determines a schedule for security provision.
 - Settlement for provision of security.
- The AEMC made a draft determination for the OSM on 21 September 2022, and has proposed a final determination will be published on 27 July 2023
- More information can be found on the AEMC's project page:
 - <https://www.aemc.gov.au/rule-changes/operational-security-mechanism>

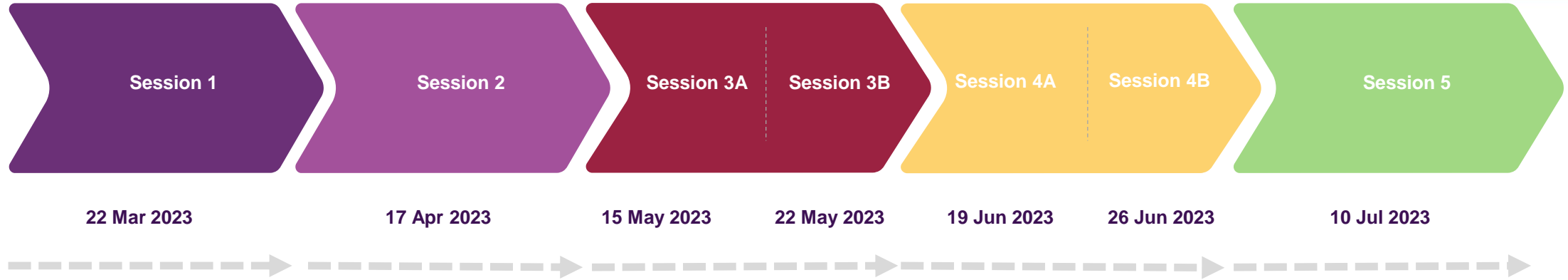
5. Other Reforms

Recap: Strategic / Foundational initiatives

Pathway	Initiatives	Description
Foundational <ul style="list-style-type: none"> Foundational dependency work to deliver an uplift to base capability on which reforms are dependent 	<ul style="list-style-type: none"> Identity Access Management (IDAM) 	<ul style="list-style-type: none"> A unified mechanism to authenticate participant users and applications when accessing AEMO services.
	<ul style="list-style-type: none"> Industry Data Exchange (IDX) 	<ul style="list-style-type: none"> Unified access to AEMO services across all markets, using modern authentication and communication protocols, facilitating a cohesive approach to industry data exchange. This will leverage IDAM
Strategic (Related) <ul style="list-style-type: none"> Strategic dependency work to effectively futureproof capabilities and scalability of systems thereby avoiding investment in systems that will become end-of-life shortly after the reforms take effect 	<ul style="list-style-type: none"> Portal Consolidation (PC) 	<ul style="list-style-type: none"> A 'single pane of glass' user experience for participants accessing all AEMO browser based services

- These initiatives have been identified for the NEM Reform Program and included in the [NEM Reform Implementation Roadmap](#).

Industry Consultation underway



Session	Introduction – IDX, IDAM & PC	Discovery Workshops – IDAM and PC	Target State Discussion	Transition Strategy	Conclusions and Business Case
Agenda*	<ul style="list-style-type: none"> Introduce initiatives Outline workshop plan 	<ul style="list-style-type: none"> Pain points and benefits Survey 	<ul style="list-style-type: none"> Concept walkthrough 	<ul style="list-style-type: none"> Transition Strategy Impacts & Benefits 	<ul style="list-style-type: none"> Summary Options
Audience		 	 	 	

* Detailed consultation schedule available in Appendix B of this pack.

6. Procedures Consultation Roadmap

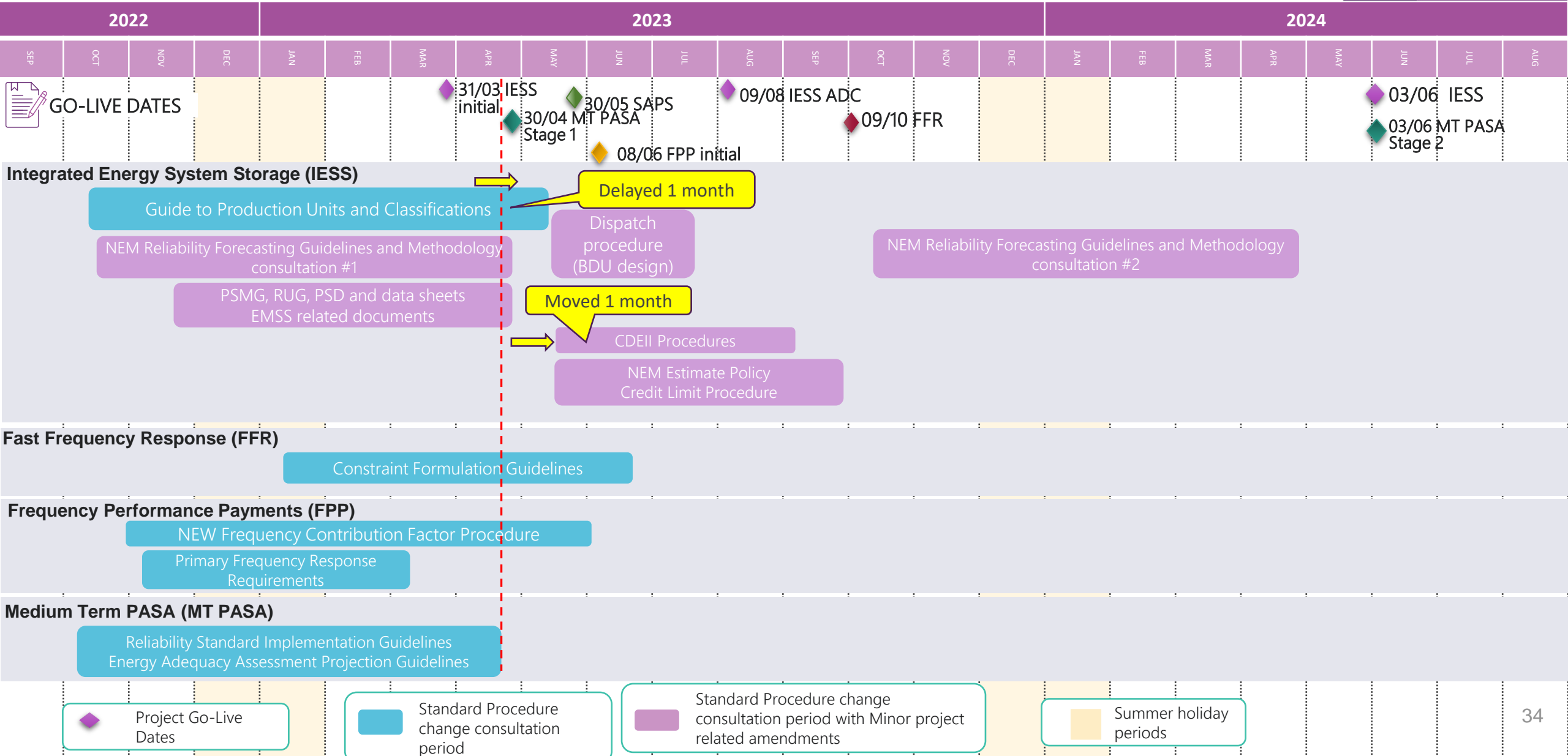
Procedures Consultation Roadmap

- Upcoming documents consultations for
 - Reform ‘in flight projects’
 - BAU changes, including NER requirements
- “Library” of AEMO Procedures, Guides and documents

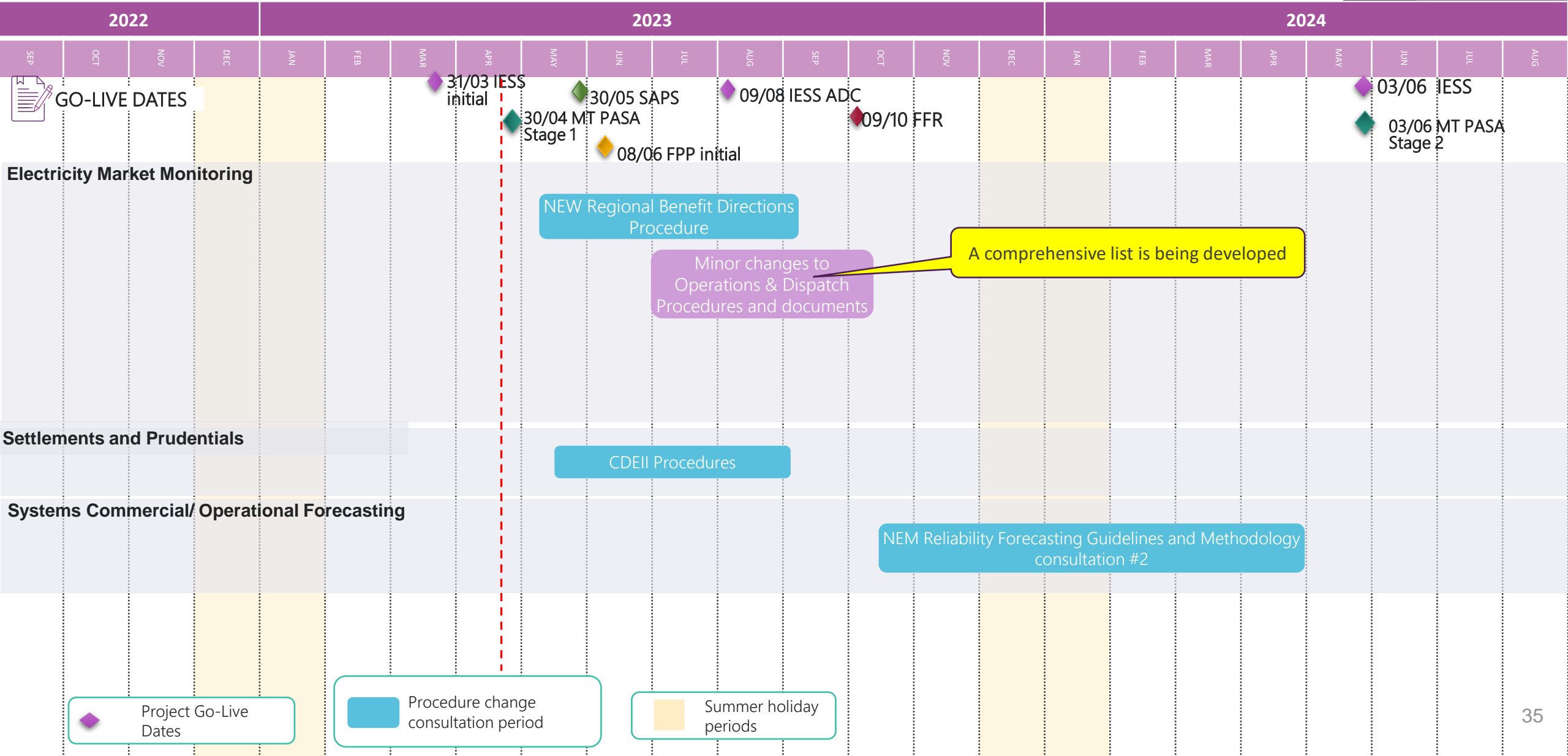
Objectives

- To show stakeholders what documents AEMO is planning to change
- A tool to manage and plan timeframes for upcoming document changes
- Awareness of what is changing and who it impacts within organisations

Reform Indicative Procedure Change Timeline



AEMO BAU INDICATIVE Document Change Timeline



Document Changes Summary – Reform Projects

In-flight projects	Consultation	Key dates
Integrated Energy System Storage (IESS)	Guide to Registration Exemptions and Production Unit Classifications	Submission closed – 14 March 2023 Final report – 14 May 2023 (delayed 1 month)
	Retail Procedures consultation	Draft report - 12 June 2023 Submissions close - 10 July 2023
Fast Frequency Response (FFR)	Constraint Formulation Guidelines (CFG)	Submissions close - 12 April 2023
	Constraint Implementation Guidelines (CIG)	Final report - 20 April 2023
	Market Suspension Pricing Methodology (MSPM)	Final report - 2 March 2023
Frequency Performance Payments (FPP)	Frequency Contribution Factors Procedure (NEW)	Final Procedure – 8 May 2023
Enhancing Information in MTPASA	NEM Reliability Forecasting Guidelines and Methodology Consultation	Final determination and reports – 28 April 2023

7. Upcoming Engagements

Upcoming Engagements

APR 2023

- PCF: (12 April)
- CFG: Second consultation period closes (12 April)
- EWCF: (18 April)
- CIG: Final Guidelines published (20 April)
- ERCF: (20 April)
- Industry Testing Working Group (27 April)
- Implementation Forum (26 April)
- PFRR: Final document published (28 April)

MAY 2023

- RDC Collaborative Workshop: (3 May)
- FPP: Final Frequency Contribution Factors Procedure published (8 May)
- PCF (10 May)
- All Stakeholder briefing / Information session on the NEM2025 Program (11 May)
- EWCF: (16 May)
- ERCF: (22 May)
- RDC: (24 May)
- Implementation Forum (30 May)

Q2 2023

- PCF: (14 June)
- EWCF: (20 June)
- CFG: Final Guidelines published (22 June)
- ERCF: (26 June)
- Implementation Forum (27 June)
- Industry Testing WG: (29 June)

Glossary

- FPP:** Frequency Performance Payments
- IESS:** Integrating Energy Storage Systems
- PCF:** Program Consultative Forum
- RDC:** Reform Delivery Committee
- EWCF:** Electricity Wholesale Consultative Forum
- ERCF:** Electricity Retail Consultative Forum
- CFG:** Constraints Formulation Guidelines
- PFRR:** Primary Frequency Response Requirements
- CIG:** Constraints Implementation Guidelines
- MSPM:** Market Suspension Pricing Methodology

Stakeholder enquiries and forum nominations may be sent to:

NEMReform@aemo.com.au

- To learn more about these events, please visit AEMO's [Industry meeting calendar](#) or contact the program at NEMReform@aemo.com.au.
- To learn more about AEMC calendar activities, please visit the [AEMC calendar](#).

Upcoming Engagements

April						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

May						
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

June						
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18	19	20	21	22	23	24
25	26	27	28	29	30	

July						
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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Legend
Program forums
NEM2025 Program Consultative Forum
Reform Delivery Committee
Reform Delivery Committee - Collab W.
Implementation Forum
Electricity Wholesale Consultative Forum
Electricity Retail Consultative Forum
Industry Testing Working Group
AEMO Consumer Forum
All Stakeholder NEM Reform and Roadmap briefing
Initiative specific meetings
NEM Reform Foundational and Strategic initiatives
PLACEHOLDER: NEM Reform Implementation Forum - May Go-Live Criteria
Other
National Public Holiday
State/Territory Public Holiday

To learn more about these events, please visit AEMO's [Industry meeting calendar](#) or contact the program at NEMReform@aemo.com.au.

8. General Questions & Other Business



NEMReform@aemo.com.au



[NEM Reform Electricity Wholesale Consultative Forum](#)



UPDATED
05/04/23

Appendix A: Competition law meeting protocol and AEMO forum expectations

AEMO Competition Law - Meeting Protocol

AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

Participants in AEMO discussions **must**:

- Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
- Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
- Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol

Participants in AEMO meetings **must not** discuss or agree on the following topics:

- Which customers they will supply or market to
- The price or other terms at which Participants will supply
- Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
- Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
- Refusing to supply a person or company access to any products, services or inputs they require

Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.

AEMO Forum and Meeting Expectations

This charter explains expectations regarding participation and behavior in the Australian Energy Market Operator (AEMO)'s stakeholder forums.

Meeting Expectations

All participants will:

- Respect the diversity of the group.
- Speak one at a time – refrain from interrupting others.
- Share the oxygen – ensure that all attendees who wish to have an opportunity to speak are afforded a chance to do so.
- Maintain a respectful stance towards all participants.
- Listen to others' points of view and try to understand others' interests.
- Share information openly, promptly, and respectfully.
- If requested to do so, hold questions to the end of each presentation.
- Remain flexible and open-minded, and actively listen and participate in meetings.
- Abide by COVID-Safe workplace guidelines, if attending a meeting on AEMO's premises.

Roles and Responsibilities

Forum stakeholders agree to:

- Be specific and fact-based in their feedback on a specific workstream or emerging issue;
- Review and provide feedback on papers and reports;
- Relay information to their colleagues or constituents after each meeting and gather information/feedback from their colleagues or constituents, as practicable, before each meeting;
- Maintain a focus on solutions or outcomes that benefit all energy consumers.

AEMO agrees to:

- Provide technical expertise in a manner that is considerate of the audience and their level of expertise;
- Assist participants in understanding issues enough to represent their views;
- Provide all participants the opportunity to voice their views.

UPDATED
05/04/23

Appendix B: NEM Reform Foundational and Strategic initiatives

Workshop Structure



SESSION 2:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 2: Discovery Workshops – IDAM and Portal Consolidation					
17 April 2023	Introduction: IDAM and PC	Technical and Business Focus Groups	<ul style="list-style-type: none"> • Introduction and Objectives – IDAM and PC • Recap on IDX Discovery (pain points) • AEMO view of IDAM/PC pain points from internal workshop • Workshop outline 	1:00 – 1:30pm (30 mins)	
	Technical Discovery Workshops: IDAM	Technical Focus Group – IDAM	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	1:30 – 3:00pm (1.5 hrs.)	
	Business Discovery Workshops: IDAM	Business Focus Group - IDAM	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	1:30 – 3:00pm (1.5 hrs.)	
	COFFEE BREAK 3:00 – 3:15PM				
	Technical Discovery Workshops: PC	Technical Focus Group – PC	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	3:15 – 4:15pm (1 hr.)	
	Business Discovery Workshops: PC	Business Focus Group - PC	<ul style="list-style-type: none"> • Mural board walk through • Industry pain points workshop • Industry benefits workshop 	3:15 – 4:15pm (1 hr.)	
	Workshop Close	Technical and Business Focus Groups	<ul style="list-style-type: none"> • Summary • Next steps 	4:15 – 4:30pm (15 mins)	

SESSION 3A:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 3A: Target State Proposal for Technical Focus Groups					
15 May 2023	Introduction	Technical Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction • Workshop outline 	10:00 - 10:15am (15 mins)	
	Target State Proposal for IDX	Technical Focus Group - IDX	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Proposed Target State models • Feedback 	10:15am – 12:15pm (2 hrs.)	
	LUNCH 12:15 – 1:30PM				
	Target State Proposal for IDAM	Technical Focus Group – IDAM	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Proposed Target State models • Feedback 	1:30 – 3:00pm (1.5 hrs.)	
	AFTERNOON TEA 3:00 – 3:15PM				
	Target State Proposal for PC	Technical Focus Group - PC	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Proposed Target State models • Feedback 	3:15 – 4:15pm (1 hr.)	
Session Close	Technical Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Summary • Next steps 	4:15 – 4:30pm (15 mins)		

SESSION 3B:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 3B: Target State Discussion for Business Focus Groups					
22 May 2023	Introduction	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction • Workshop outline 	1:00 – 1:15pm (15 mins)	
	Target State Discussion for IDX	Business Focus Group - IDX	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Sample use cases – B2B, B2M, non-NEM • Feedback 	1:15 – 2:30pm (1.25 hrs.)	
	COFFEE BREAK 2:30 – 2:45PM				
	Target State Discussion for IDAM	Business Focus Group – IDAM	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Sample use cases – B2B, B2M, non-NEM • Feedback 	2:45 – 3:45pm (1 hr.)	
	Target State Discussion for PC	Business Focus Group – PC	<ul style="list-style-type: none"> • Concept walkthrough • Recap on Discovery workshop outcomes • Sample use cases – B2B, B2M, non-NEM • Feedback 	3:45 – 4:45pm (1 hr.)	
	Session Close	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Summary • Next steps 	4:45 – 5:00pm (15 mins)	

SESSION 4A:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length	
SESSION 4A: Transition Strategy for Technical Focus Groups					
19 June 2023	Introduction	Technical Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction and objectives • Workshop outline 	10:00 – 10:15am (15 mins)	
	Transition Strategy, Impacts & Benefits – IDX and IDAM	Technical Focus Group – IDX Technical Focus Group – IDAM	IDX: <ul style="list-style-type: none"> • Enabling progressive transition • N -1 discussion • Sunset timeframe discussion • Propose principles for utilization IDAM: <ul style="list-style-type: none"> • Aligned with IDX & PC take up • Sunset timeframes Impacts & Benefits of IDX and IDAM initiatives – Technical view	10:15am – 12:30pm (2.25 hrs.)	
	LUNCH 12:30 – 1:30PM				
	Transition Strategy, Impacts & Benefits - PC	Technical Focus Group – PC	PC: <ul style="list-style-type: none"> • Align to initiatives • Sunset timeframes Impacts & Benefits of PC initiative – Technical view	1:30 – 2:45pm (1.25 hrs..)	
Session Close	Technical Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Summary • Next steps 	2:45 – 3:00pm (15 mins)		

SESSION 4B:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length
SESSION 4B: Transition Roadmap for Business Focus Groups				
26 June 2023	Introduction	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Introduction and objectives • Walkthrough of the principles for NEM2025 • Overview of the IDX, IDAM and PC Transition Roadmap 	1:00 – 1:30 (30 mins)
	Transition Roadmap, Impacts & Benefits – IDX and IDAM	Business Focus Group – IDX Business Focus Group – IDAM	<ul style="list-style-type: none"> • Present Roadmap for IDX and IDAM aligned to NEM2025 • Present Impacts and Benefits – Business view 	1:30 – 3:30pm (2 hrs.)
	COFFEE BREAK 3:30 – 3:45PM			
	Transition Roadmap, Impacts & Benefits – PC	Business Focus Group – PC	<ul style="list-style-type: none"> • Present Roadmap for PC aligned to NEM2025 • Present Impacts and Benefits – Business view 	3:45 – 4:45pm (1 hr.)
	Session Close	Business Focus Groups – IDX, IDAM, PC	<ul style="list-style-type: none"> • Summary • Next steps 	4:45 – 5:00pm (15 mins)

SESSION 5:

Dates	Purpose	Audience	Session Outline	Time [AEST] / Length
SESSION 5: Conclusions and Business Case				
10 July 2023	Conclusions & Business Case	Business Focus Groups – IDX, IDAM and PC	<ul style="list-style-type: none">• Introduction and re-cap of Sessions 3 and 4• Present key options – Incremental upgrade vs Early Transition• Recommendations and considerations• Session close	1:00 – 3:00 pm (2 hrs.)



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