





9.00 am

Introduction to WRIG (Terms of Reference & Key Roles)

Aden Barker| ETIU

9.30 am

**AEMO Implementation – Delivery Team** 

Stuart Featham | AEMO

9.45 am

**AEMO Implementation – Solution Design Overview** 

Thomas Killin | AEMO

10.15 am

**Implementation Planning Workshop** 

Stuart Featham | AEMO

11.55 am

**Next Steps** 



**Key Implementation Roles** 

#### **Session Purpose**

- Discuss and agree Terms of Reference
- Discuss implementation roles of ETIU, AEMO and other stakeholders



# WRIG Introduction Terms of Reference

The Foundation Regulatory Frameworks workstream of the ETS will require significant implementation effort from market participants and institutional bodies. ETIU has convened the WEM Reform Implementation Group (WRIG) to consult on this implementation effort and support successful delivery.

#### **Purpose of the WRIG**

The WRIG is an expert stakeholder forum requiring participation and input from relevant industry participants to assist the Taskforce to:

- develop a joint industry program plan for the transition to new market arrangements, including ongoing status assessment and reporting;
- identify and manage key program risks, assumptions, issues, and dependencies; and
- resolve challenges to the implementation of the new WEM by, where necessary, developing amendments to Market Rules or regulation during the transition to new market arrangements (e.g. transitional approach to compliance and monitoring, market trial obligations).

A key requirement of WRIG attendees is to represent their organisation and provide specific information that will assist planning and execution.

# WRIG Introduction Key Implementation Roles

It is imperative that there is clarity over the roles and responsibilities of different parties to ensure implementation success. This will be developed over time, with initial high level views provided below:

#### **ETIU**

- Ultimately accountable for program success and benefits delivery
- Determining and delivering any necessary regulatory changes
- Arbiter of implementation challenges/issues (e.g. timeline vs scope)

#### **AEMO**

- Accountable for delivery of its internal program of change
- Leading joint industry planning and execution (e.g. market trials)
- Provision of information to WRIG on program status and RAID items

#### Other participants/stakeholders

- Accountable for delivery of internal change programs
- Provision of information to WRIG on program status and RAID items

## AEMO Implementation Delivery Team

#### **Session Purpose**

 AEMO to introduce the key team members responsible for implementation



## **AEMO Implementation**

**Delivery Team** 

#### Program Management Team

Senior Program Manager: Stuart Featham

Program Coordinator: Kaye Anderson

Technical Program Lead: TBC

#### Technology Team

Manager, WA Solutions: Thomas Killin

Solution
Delivery Lead:
Arthur
Panggabean

Lead Solutions Architect: David Devereux

Principal
Business
Analyst:
Winston Cheng

#### Business Team

PSO Business Lead: Clayton James

Markets Business Lead: Mike Hales

Change
Management
Lead:

Paula Welke

#### Supporting Technology Team:

Infrastructure

**Cyber Security** 

Development Lead

Test Lead



#### **Session Purpose**

- AEMO to provide a summary of its approach to system design
- AEMO to discuss the current state of its system Options and Recommendations (OAR)



#### An evolving environment has shaped the approach

Market Design and Rules are still being developed and will not be finalised until late 2020, leaving approximately 30 months – from now - to analyse, implement, test and trial business processes and solutions.

As market design evolves, the **delivery program** will need to be adjusted which will add complexity and risk – including the possibility of reworking processes and solutions.

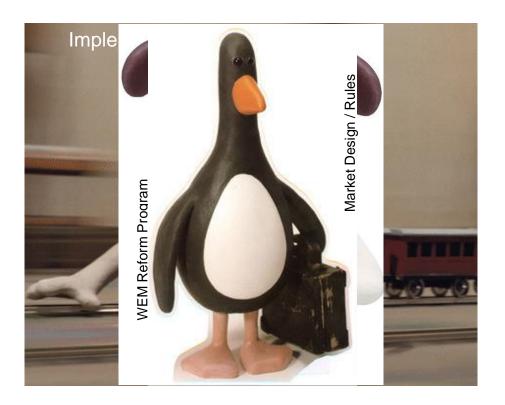
Compressed regulatory timeframes require the WEM Reform program and associated supporting solutions to be defined prior to finalisation of the amending rules.

- Adoption of current AEMO application and technology components (i.e. reuse and repurpose) where appropriate.
- Ongoing analysis of proposed option will be undertaken during the CAD and SAD processes to align with the evolving WEM reform process.

WRIG Meeting #1

Resulting in .

An evolving environment has shaped the approach



#### **Technical Implementation: Three major streams**

## Solution Design and Delivery

- Options Analysis & Recommendations
- Conceptual Architecture Design
- Solution Architecture Design
- Program Implementation Plan

## Supporting Platform

- Development and test environments focussing on the cloud
- Platform, tools and processes
- Design and Build

#### Stakeholder Engagement

- WEM Reform Implementation Group (WRIG)
- Monthly Forums
- AEMO, Government, Market Participants

Appropriate and timely solutions

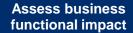
Strategic alignment

**Leveraging AEMO capabilities** 

**Common understanding** 

Common plan

#### **OAR functional analysis approach**



Analysis of current/future functions based on Foundation Market Parameters, design decisions and assumptions



assumptions and current WEM reform thinking
Areas considered included

- Process changes
- Information changes

## Gather/confirm relevant applications

Analysis of future applications based on Foundation Market Parameters, design decisions and assumptions

**+** 

Gather and review the current list of application support the current functional state to ensure the application landscape is correct.
Where possible, assess similar existing application capabilities.

Determine what is not likely to change.

application capabilities

**Review current** 

Functional Capability
Timeliness

Review current application functional capabilities and assess against anticipated future market rules and flexibility for further augmentation, taking into account tactical/timing implications.

Application assessment

### Establish application impact stance

Reuse Repurpose Buy Build



Assess each application and/or gaps against the four criteria above (refer to later slides for more details)
Determine the stance on each existing application
Develop an overall stance for the subfunction based on the application review.

## Develop CAD approach

Functional dependencies Application stances



Define a set of tranches to develop related Conceptual Architecture Designs (CAD). Each CAD would consider the

- The broader context
- Function/application specifics

to support the creating the CAD

The CADs would progress through the normal review and approval processes.

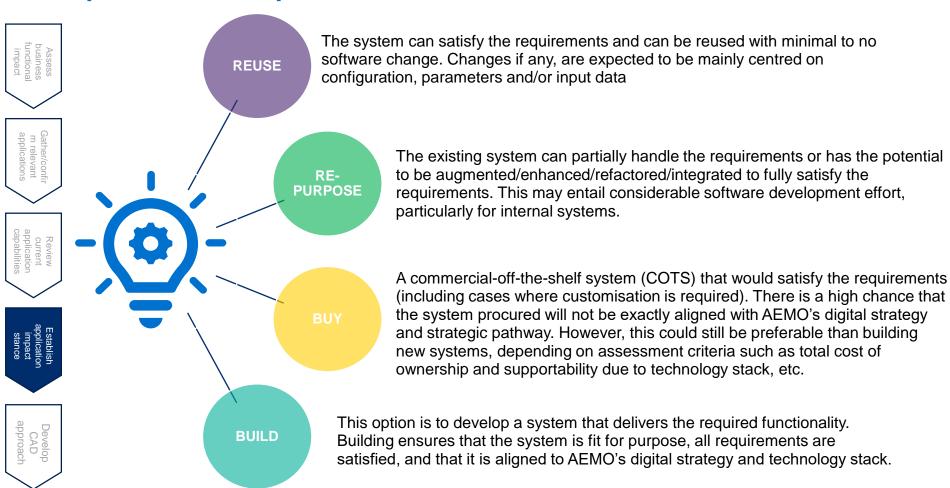
CAD delivery plan

**Target Functional Model** 

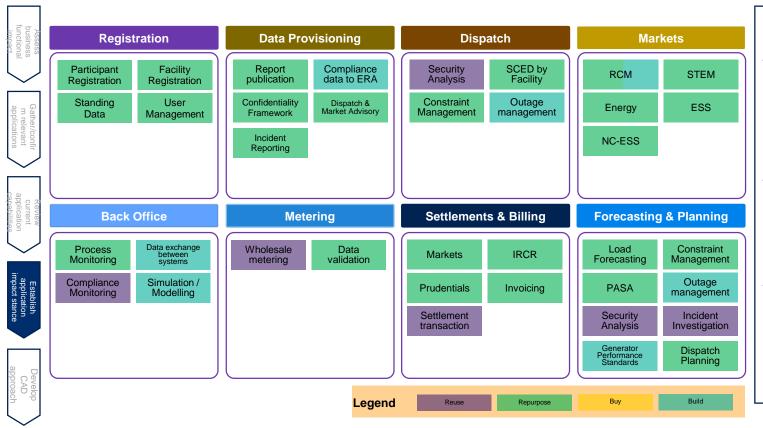
Target Functional Model

Application/Functional stance

#### Implementation options considered



#### **Recommendation summary**



#### Key Messages

- Recommended options are based on point-in-time (and informed) understanding of WEM reform scope and relevant applications associated with each function/subfunction.
- The options provide a foundation for planning and costing the next iteration of the program, and seek to minimise/mitigate program delivery risks.
- Further analysis of the chosen options will continue into the CAD phase to validate the decisions and maintain alignment with WEM reform market design.



#### **Session Purpose**

- Discuss views on and definitions of 'Go Live
- Discuss key change activities for all stakeholders
- Discuss components of joint industry plan
- Discuss priorities



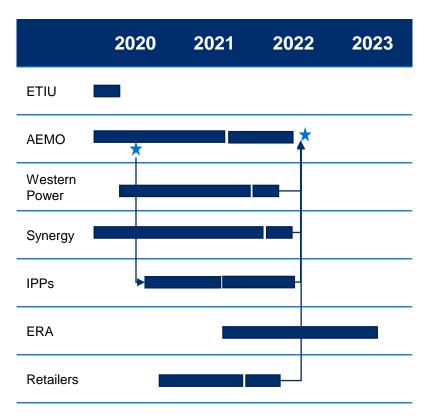
## Joint Industry Planning Introduction

As set out in the Terms of Reference, the WRIG will be tasked with developing a Joint Industry Plan to aid in the preparation and successful execution of the Foundation Regulatory Frameworks workstream.

The proposal is that this plan will include 'swim lanes' for all relevant stakeholders who are required to implement change, coordinate and collaborate to meet the 'Go Live' of security constrained economic dispatch in October 2022.

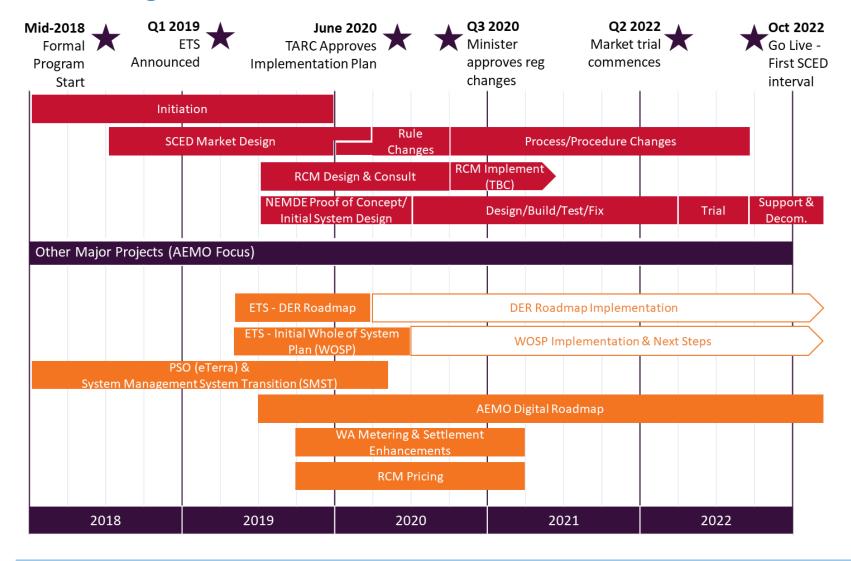
This will require a clear definition of:

- Go Live milestone and preceding milestones;
- defined program activities and phases (e.g. test and trial);
- · mandatory vs voluntary requirements; and
- key dependencies



## Joint Industry Planning

#### **Current high level timeline**



## Joint Industry Planning Workshop activity – introduction

It is proposed that a 'standard' program management approach is taken to develop the Joint Industry Plan – based around definition of deliverables & milestones and a breakdown of work & key activities.

It is expected that this will take a number of WRIG sessions to build, with today's initial workshop looking for stakeholder views on the basic building blocks of a plan and other important considerations (e.g. regulatory regime as it relates to implementation).

Following sessions will build detail on these initial views as well as seek input on risk, assumptions and other (e.g. external) change activities that should be considred.

#### Workshop Approach

- Tables are spread out 'cabaret' style with aim to have a variety of stakeholders at each table
  - AEMO/ETIU will facilitate each table seeking feedback on a number of key planning questions
- 3. During a short tea break, AEMO and ETIU will review and consolidate key points
  - Session will close with a playback and discussion of key points
- 5. Full summary of feedback will be collated and sent out to WRIG members in advance of Meeting #2

## Joint Industry Planning

#### Workshop activity – questions for discussion

- 1. What does or should the Go Live milestone define is it possible to shift from one set of market/power system arrangements to another in one interval?
- 2. What are the major changes that you will need to prepare for and/or implement (e.g. IT systems, business process, plant upgrades)?
- 3. What are the key phases or activities required to be captured in the Joint Industry Plan?
- 4. What are your views on the testing and trialling arrangements (e.g. scenario-based, 'parallel run')?
- 5. What regulatory considerations need to be addressed (e.g. pre-Go Live requirements to pass scenario exit criteria, post Go Live monitoring and compliance)?
- 6. What are your key dependencies and high priority information/data requirements?