

# RCM3 UPDATE TO IT FORUM



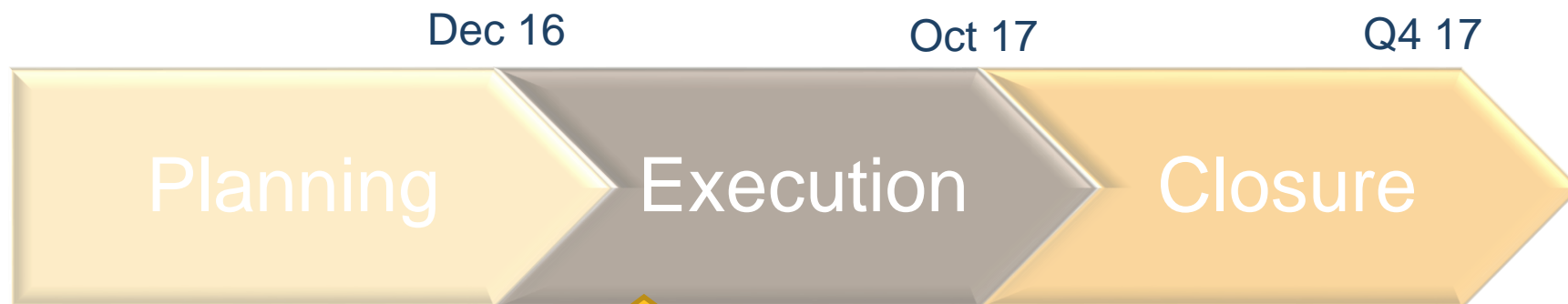
Nov 2016

PRESENTED BY A THORNBURY



## TABLE OF CONTENT

1. Progress update on RCM project – Andrew Thornbury
2. Key dates for RCM3 – Andrew Thornbury
3. API Principles – Mark Brodziak
4. Demonstration - Application for certification
5. Discussion
  - Market Participant involvement in development showcases.
  - Future showcases for wider audience.
6. General Q&A



**We are here**  
Build 6% complete

- Work complete**
- ✓ Discovery and planning
  - ✓ Build pipelines
  - ✓ Base parameter configuration
  - ✓ Application for Certification

- Work in progress**
- Key Interface Contracts
  - IRCR Calculations
  - Settlement Calculations

**Work coming up**  
-see next slide

- Delivery in c.2 week iterations with progressive deployment to test environment.
- Early delivery of API design.
- Number of iterations and priority determined in the discovery phase.
- Each iteration consists of:
  - Design
  - Build
  - Test
  - Certify
- Once all modules integrated:
  - Final test run
  - Final certification
  - Penetration testing
  - Market trial

- Backlog is continually reassessed so priority can change, but next items currently scheduled include:
- December
  - Key Interface Contracts
  - API
  - DSM Reserve Capacity Price
  - IRCR Calculation
  - Settlement Calculation
- January
  - API (continued), Settlement (continued)
  - Outage Rate Assessment
  - Certified Reserve Capacity
  - Reserve Capacity Price
  - POMAX changes

# KEY DATES FOR PARTICIPANTS



Activity	Planned Date
Consult on Market Trial and Training Approach	Jan/Feb 17
API Design	Late Q1 17
Training Delivery	Late Q2/ Early Q3 17
Market Trial	Q3 17

Ongoing capacity certification and accreditation process in mid 2017 – unlikely to use the new systems and will execute in parallel to the trial.

If constraints rules are delayed, may consider implementing a transitional rule that will enable AEMO to manage constraints in the RCM accreditation process.

# APPLICATION PROGRAMMING INTERFACE (API)



## Items we are likely to prioritise

- Submissions and reporting for:
  - Monthly Capacity Allocation Processes
- Reporting relating to:
  - Annual RCM certification cycle submissions (e.g. Certification of Reserve Capacity, Bilateral and DSM Trade Declarations submissions and results)
  - Parameters applicable for a Reserve Capacity Cycle (e.g. RCT, RCP, DSP Capacity Price, Assigned Capacity Credits)
  - Relevant Demand
  - RCOQ
  - RC Testing Results
  - NBDMO
  - IRCR
  - Settlement Outcomes
- Publication of data as required by Clause 10.5.1
  - NBDMO prices by facility, NBDMOs, Refund Exempt Planned Outage Count and Telemetry

## Items we are unlikely to prioritise

- Submissions relating to the Annual RCM Certification Cycle including Certification of Reserve Capacity, Bilateral Trade Declarations and RC Auction.
- Reporting relating to the RC Auction.
- Configuration of load associations for DSPs.
- Facility and Participant standing data management.
- RC Testing scheduling.

# APPLICATION PROGRAMMING INTERFACE (API) – RECAP FROM LAST RCM FORUM



Principle	Business Implication
<ul style="list-style-type: none"> <li>• Web service API will be new.</li> </ul>	<ul style="list-style-type: none"> <li>• Any existing interfaces will need to be rewritten.</li> </ul>
<ul style="list-style-type: none"> <li>• Web services will be RESTful style, but payload has not yet been settled on – may be CSV, XML, and/or JSON.</li> </ul>	<ul style="list-style-type: none"> <li>• Technical details that need to be settled before the interfaces can be rewritten.</li> </ul>
<ul style="list-style-type: none"> <li>• Submission format via web page will be the same as submission format via web service.</li> </ul>	<ul style="list-style-type: none"> <li>• Processing and data is the same regardless of whether you use the web or the API.</li> </ul>
<ul style="list-style-type: none"> <li>• The same web service API will be consumed by the web pages (which will likely use the JSON format payload).</li> </ul>	<ul style="list-style-type: none"> <li>• We are agnostic on how you “talk” to us going forward.</li> </ul>
<ul style="list-style-type: none"> <li>• In short term, no change to security and accounts. Security mechanism for 2019 is yet to be determined, but is likely to be different to the WEM due to the new MarketNet context and the new authentication source (NEM User Rights Management system).</li> </ul>	<ul style="list-style-type: none"> <li>• RCM 3, for October 2017, will continue to use existing user accounts (it will NOT need new user accounts) and will be available via WEMS over the public internet. The details around authentication of web services has not yet been established. Access via MPI will continue to use RSA tokens; it will likely continue to use client certificates for web service submissions.</li> <li>• RCM 4, when the new market systems are adopted, will need new user accounts, will be accessible via MarketNet, and will authenticate against the NEM User Rights Management system. It will likely use a mechanism that replaces client certificates.</li> </ul>



- Involvement of Market Participants during development
  - We could support some MP involvement during the development iterations.
    - Is this something Market Participants would welcome?
    - If so, how do you want to be involved?
  - At future IT Forums we can provide further showcases of the functionality that has been delivered since the last showcase?
    - Is this something Market Participants would welcome?

ANY OTHER QUESTIONS?



THANK YOU

