

Reserve Capacity Certification Workshop - 2016/17

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# **Background**

20 April 2014 - Minister for Energy directs the IMO to defer certain aspects of the 2014 Reserve Capacity Cycle.

Direction becomes binding after 7 days.

IMO revises its timelines associated with these aspects by one year, namely

- Certification of Reserve Capacity
- Bilateral Trade Declaration
- Assignment of Capacity Credits
- Cancellation of Reserve Capacity Auction



# **Agenda**

- Information required by the IMO for the Certification of Reserve Capacity
- Electronic submission of applications in WEMS
- Overview of the necessary approval requirements (Finances, Network Access, Environmental, etc.)
- Details of assessments for Committed status
- Potential Market Rule changes that may affect certified capacity for the 2014 Reserve Capacity Cycle



# **Overview of the Certified Reserve Capacity Process**

- Allows new and existing capacity to apply for certification and be eligible for capacity credit payments
- Market Rules 4.10 & 4.11 define conditions for certification for existing, new and upgraded facilities on a yearly basis
- Certification requires a technical review of the facility capability during periods of peak demand, extensive investigation and due diligence assessment
- Determines maximum quantity of Capacity Credits a facility can be allocated



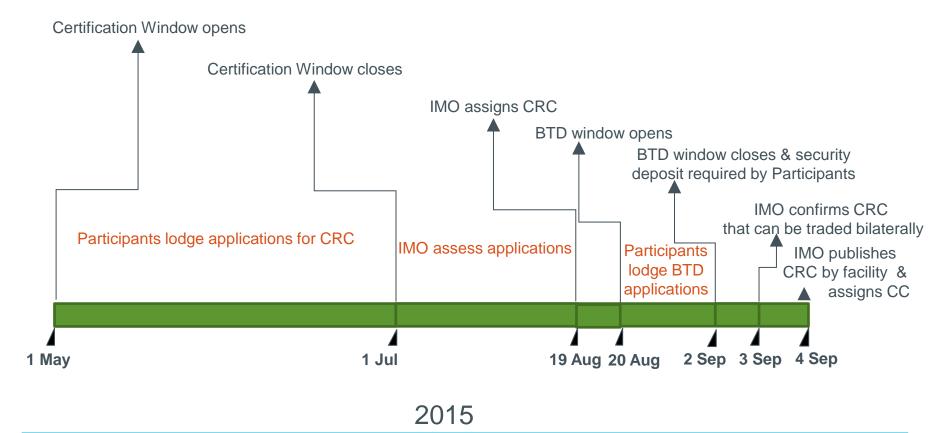
# Responsibilities

Market Participants provide information required for the Certification of Reserve Capacity as per MR 4.10

IMO assesses and sets Certified Reserve Capacity (CRC) as per MR 4.11



# **2014 Reserve Capacity Cycle for 2016/17 Capacity Year Key Certification Dates**





# **CRC Applications – Information Requirements MR 4.10.1**

#### All Facilities require:

- key project dates
- excel spread-sheet summarising required information recommended
- electronic submission in MPI

# All generators (Scheduled & Non-scheduled) yet to enter service require:

- evidence that Environmental Approvals have been/are likely to be granted
- evidence of an Arrangement for Network Access

#### All scheduled generators require:

evidence of Fuel Contracts

#### All intermittent generators require:

Expert Report where less than 5 years old or for upgrades

#### DSP's require:

- hours and periods of availability
- evidence of current contractual positions or negotiations for new loads



# Information Requirements - continued Summary spreadsheet example

A	В	С		E								
	Rule Requirement	Rule Requirement	Market Rule 4.10.1	Market Participant Response								
All Facilities	Identity of Facility	Full Name	(a)									
All I delines	Identity of Facility	WEMS Short name										
All Capillian	Reserve Capacity Cycle	Relevant Reserve Capacity Cycle  Level of Certified Reserve Capacity sought	(D)									
All Facilities		Network Access	(I- A.) (C)									
		NetWork Access	(DA) (I)									
		Environmental Approvals	(c) ii									
		For each of the following please enter the date where the key project deliverable will be completed and supporting documentation for each also be provided.										
	1	All approvals finalised date	(c) iii 1									
	l	Financing Finalised Date	(c) iii 2									
cilities yet to enter service	Is the Facility or part of the Facility yet to	Site preparation start date	(c) iii 3									
,	enter service	Construction Start Date	(c) iii 4									
	Ì	Generating equipment or DSM control										
	Ì	equipment installation complete										
icilities due To ecommission	Ì	Commissioning trials start	(c) iii 6									
	Ì	First capable of meeting Reserve Capacity	l									
		Obligations	(C) III /									
oiltion due To												
	Planned Decommissioning Date		(d)									
COMMISSION			(b) (c) ii (c) ii the date where the key project deliverable v also be provided. (c) iii 4 (c) iii 2 (c) iii 3 (c) iii 4 (c) iii 5 (c) iii 6 (d) (dA) (e) i (e) ii (find the deliverable v also be provided. (c) iii 7 (d) (dA) (e) iii 7									
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		Additional max sent out capacity @ 41 oC	(e) iii									
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Scheduled Generators	for a generation system other than an Intermittent Generator:	Method of measurement of Ambiant										
Scheduled Generators		Method of measurement of Ambient Temperature	(e) iv									
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Scheduled Generators		Method of measurement of Ambient Temperature Primary Fuel	(e) iv									
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Scheduled Generators		Method of measurement of Ambient Temperature Primary Fuel Secondary Fuel Any other factors that may effect fuel supply arrangements	(e) iv (e) v (e) v									
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Scheduled Generators		Method of measurement of Ambient Temperature Primary Fuel Secondary Fuel Any other factors that may effect fuel supply arrangements	(e) iv (e) v (e) v									

http://www.imowa.com.au/home/electricity/reserve-capacity/certification-of-reserve-capacity



#### Online Submissions in WEMS/MPI

#### **Pre-requisites for WEMS submission:**

- Registered Market Participant Status
- WEMS access
- Facility Candidate for registration including upgrade of facilities (Note that an upgrade to a facility must be created in the system prior to CRC submission)

#### User guide for submissions (CSV or XML):

http://www.imowa.com.au/home/electricity/market-participants/guides-and-useful-information

#### **Templates for CSV submissions:**

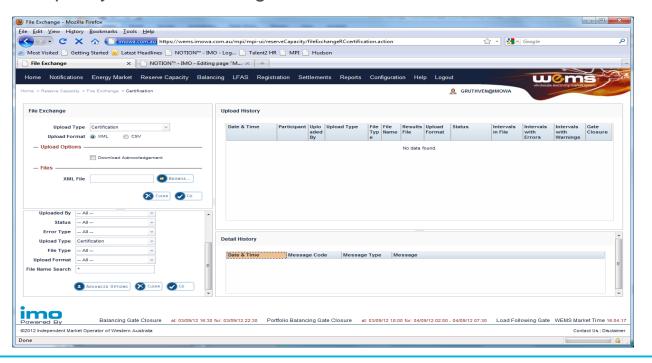
<u>www.imowa.com.au/home/electricity/market-participants/market-forms-and-templates/file-exchange-templates</u>



#### **Electronic Data Submission**

#### **Via WEMS Interface**

MPI → Reserve Capacity → File Exchange → Certification





# File (csv) sample to be uploaded

	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T
1		facility name			project financing	project site prep date			commissioning	full capacity obligation date		outage	unforced outage rate	outage	unforced	conditional confirmation				available capacity mw hot
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# **Assessment Process Overview**

#### **Key considerations for all Scheduled Generators**

#### **Fuel**

Assess fuel arrangements by reviewing and analysing:

- Gas supply and transport contracts
- Liquid fuel supply, delivery, and resupply arrangements
- Liquid fuel storage capability
- Minimum 14 hours of continual operation required, with 1 day resupply

#### **Environmental Approvals**

- Has the company progressed environmental approvals process?
- Are there any issues that have been identified?
- Noise considerations
  - o e.g. Discussions with local council, EPA, DEC, noise experts



#### **Assessment Process Overview-continued**

#### **Financing**

- What financing structures are in place?
  - o How is financing structured?
  - o How much financing has already been sourced?

#### **Transmission/Network Access**

- DSOC limits and runback schemes may result in generators being certified for less than their nameplate capacity
- Static system studies to be completed for new generation facilities/upgrades



#### **Intermittent Generators**

- CRC based on actual/estimated output of candidate facilities in peak trading intervals from prior 5 years
- Expert report to be provided in facility in operation for less than 5 years
- Note changes to K and U parameters in the Relevant Level Methodology take effect from 2017/18 Capacity Year



# **Demand Side Management (DSM)**

- Look at load characteristics and possible levels of reduction capability –
   Relevant Demand
- Look at contracts or agreements in place between DSM provider and their customers
- History of Market Participant in procuring DSM Capacity



#### **Committed Status**

- New Facilities wishing to be assured Capacity Credits need to apply for Committed Status
- IMO approval decision made prior to BTD Stage
- The IMO cannot assign CRC to a Facility that is not expected to be a Registered Facility by 1 October 2016
- Made as a Separate Application to CRC
- Submission must present a case as to how the project has progressed further than a "Proposed" Facility and what irrevocable commitments have been made
- Guidelines and examples are in the Market Procedures



## **Bilateral Trade Declaration (BTD)**

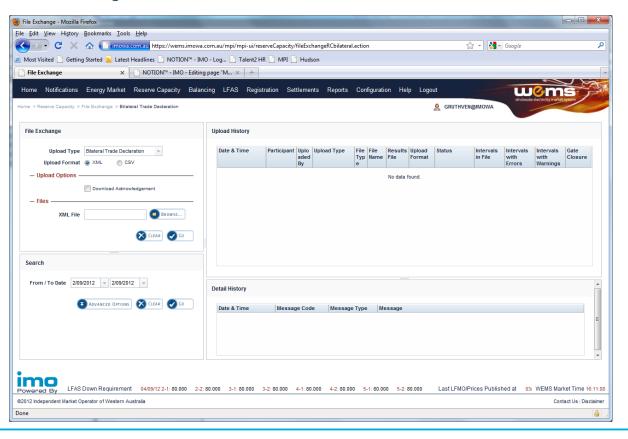
#### **Market Participant Nominates:**

- Amount of CRC made available to Reserve Capacity Auction
- Amount of CRC covered by pre-existing Special Price Arrangement
- Amount of CRC intended to trade Bilaterally
- Amount of CRC not made available



#### **BTD continued- WEMS Declaration**

MPI → Reserve Capacity → File Exchange → Bilateral Trade Declaration





### **Reserve Capacity Security**

- Reserve Capacity Security Payment required for all new Capacity
  - New Facilities
  - o Upgrades
  - o New DSM/DSM Programs
- Security Deposit required at time of Bilateral Trade Declaration if intending to trade bilaterally
- Equals ¼ of the MRCP per MW of Certified Capacity
- Security Deposit returned if Facility performs at required standard
- If Facility does not perform to the required standard then security amount is:
  - o Used for Supplementary Capacity Contracts; or
  - Any left over to rebate to Market Customers



# Rule changes affecting the 2014 Reserve Capacity Cycle

- RC\_2013\_20: Changes to the Reserve Capacity Price and the Dynamic Reserve Capacity Refunds Regime
- RC\_2015\_04: Documentation of the Long Term PASA for the 2014 Reserve Capacity Cycle



# Rejected or deferred rule changes

Rule Change Proposals were proposed to apply to the 2014 Reserve Capacity Cycle but rejected on the basis of the Electricity Market Review or have been subsequently deferred by the IMO:

- RC\_2013\_09: Incentives to Improve Availability of Scheduled Generators rejected
- RC\_2013\_10: Harmonisation of Demand-Side and Supply-Side Capacity Resources - rejected
- RC\_2013\_21: Limits to Early Entry Capacity Payments deferred





# Questions / feedback

#### General

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