Independent Market Operator

Reserve Capacity Mechanism Working Group

Minutes

Meeting No.	3	
Location:	IMO Boardroom	
	Level 3, 197 St Georges Te	rrace, Perth
Date:	Tuesday 17 April 2012	
Time:	Commencing at 2.00pm – 5	.30pm
Attendees		
Allan Dawson		Chair
Suzanne Frame		IMO
Neil Hay		System Management (Proxy)
Andrew Sutherlan	d	Market Generator
Brad Huppatz		Market Generator (Verve Energy)
Corey Dykstra		Market Customer
Patrick Peake		Market Customer
Steve Gould		Market Customer
Stephen MacLear	1	Market Customer (Synergy)
Andrew Stevens		Market Customer/Generator
Jeff Renaud		Demand Side Management
Geoff Down		Contestable Customer
Justin Payne		Contestable Customer
Paul Hynch		Observer (Office of Energy)
Wana Yang		Observer (Economic Regulation Authority)
Additional Attend	dees	
Richard Tooth		Presenter (Sapere Research Group)
Mike Thomas		Presenter (The Lantau Group)
Aditi Varma		Minutes
Fiona Edmonds		Observer
Jenny Laidlaw		Observer
Greg Ruthven		Observer
Aaron Breidenbau	ıgh	Observer (EnerNOC, USA)
Ken Schisler		Observer (EnerNOC, USA)
Paul Troughton		Observer (EnerNOC)

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Ben Tan	Tan Market Generator		
Shane Cr	ane Cremin Market Generator		
Brendan	Clarke	System Management	
Item	Subject		Action
1.	The Chair opened the third me Mechanism (RCM) Working Group (RTCM). The Chair welcomed the members in the Chair welcomed the chair welcomed the members in the Chair welcomed th	eeting of the Reserve Capacity RCMWG) at 2:05pm.	
	received from Mr Brendan Clarke, M prior to the meeting. The Chair ackn Mr Clarke. The Chair also introduce Research Group. The Chair also not in attendance.	Mr Ben Tan and Mr Shane Cremin owledged Mr Neil Hay as proxy for ed Dr Richard Tooth from Sapere	
2.	MINUTES ARISING FROM MEETIN	G 2	
	The minutes were accepted as a meeting.	true and accurate record of the	
3.	ACTIONS ARISING		
	The Chair noted that all action poir been completed.	nts from the previous meeting had	
4.	PRESENTATION: Harmonisation of Demand Side and Supply Side Resources by Dr Richard Tooth, Sapere Research Group		
	The Chair invited Dr Richard Tooth to	p present his paper.	
	The following points of discussion we	ere noted:	
	Management (DSM), Mr Jeff regime for DSM becomes reclasses. However, it is more higher Availability Classes opportunity costs of being available that Demand generally absorb refunds for pass those costs on to disincentives for signing up to With regard to Dr Tooth's cosome DSM programmes to cost that there was a range of loproviding greater availability of the costs of potential products.	ility Classes for Demand Side Renaud observed that the refund more lenient in higher Availability re difficult to recruit customers in a because of the associated allable for greater number of hours. It is desired allable for greater number of hours. It is desired allable for greater number of hours. It is desired and allable for greater number of hours. It is desired and administration of their customers as it creates to a demand management program. It is more availability, he observed and others being opposed because action shut-downs. He added that a die of customer loads would be in a per individual market customers.	
	DSM. Some members arg generators and DSM may b	rder of dispatch of generators and ued that the value provided by e different because key variables dispatch instructions from System different.	

• Discussion ensued on when DSM can be dispatched. Mr Neil

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	Hay noted that under the current Availability Classes, System Management would not dispatch DSM if it believes that the peak of summer has not yet been reached. Mr Dykstra observed that this would imply DSM is considered to be the last resort. Mr MacLean queried if this implied that System Management would have different operational guidelines in early summer vis-a-vis late summer. Mr Hay disagreed with this and noted that consideration would be given to System Management's expectation that the peak summer day is yet to occur.	
	 Mr Huppatz observed that this might indicate that DSM could be considered to be more valuable during peak summer (for example, from January to March) than during other months. Mr Geoff Down observed that some level of uncertainty flexibility needs to be factored in dispatch decisions. 	
	• Mr Renaud noted that in most markets DSM is used in emergency reliability conditions. He observed that in this case it seemed that the issue was not the dispatch of DSM itself but System Management's confidence level in dispatching DSM when faced with peaky circumstances early in summer. Mr Hay agreed with the statement and noted that if System Management was faced with the option of shedding load versus dispatching DSM, it would always dispatch DSM but it must give adequate consideration to the fact that that option would then be used up and would not be available if a similar circumstance occurred again. Mr Payne noted that the capacity provided by DSM in the market currently might be sufficient to provide some flexibility of dispatch for System Management. However, Mr Dykstra and Mr Stevens argued that dispatch decisions were constrained because of DSM availability limitations. Mr Renaud mentioned that DSM could strive to provide advanced technological tools to System Management for better dispatch decisions. However the issue was more around the prescriptive grid conditions needed to dispatch DSM rather than the actual hours of availability of it.	
	 Mr Breidenbaugh observed that in the US, the issue was not so much the availability duration of DSM but how often and for how long it was dispatched. He added that an important concern for DSM providers was performance measurement over their availability duration as that happened during the peakiest periods. He also observed that in the PJM market, DSM is only dispatched during reserve deficiency situation. 	
	 Discussion continued on how DSM participates in the energy market. Members discussed that there is an extra monetary benefit that DSM is able to receive because of savings resulting from lower consumption for the load and the dispatch payment for the DSA. The Chair noted that this was one of the issues being considered in the discussion on harmonisation. 	
	 On the issue of fuel availability requirements, members discussed the capacity refund regimes for peaking facilities and DSM facilities. Mr Sutherland noted that a peaking generator would have to bear fixed expenses in the event of capacity refunds whereas a DSA could contractually control this expense by not paying the load that did not perform. Mr Peake noted that there was no economic justification as to why DSM could not be 	

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	dispatched before a peaking generator if its marginal cost was lower. Mr Renaud noted the mechanism is based on value not cost to which Mr Peake responded that the value of the capacity provided by DSM changes throughout the Capacity Cycle. The Chair noted that this was an issue that is being considered in the discussion on harmonisation. He challenged the group to consider the inclusion of DSM in the balancing market as a potential solution for harmonisation of demand and supply side resources. Mr Breidenbaugh noted that it was important to note that DSM providers lose money if they are dispatched whereas peaking generators make money when they are dispatched. This implied that DSM providers would prefer not to be dispatched at times when the system operator wants them to.	
	 The Chair noted that Dr Tooth had provided a spectrum of options which now need to be mapped on a continuum of pros and cons. He added that the group should consider that these solutions would affect many potential customers in Western Australia who are willing and able to provide curtailment. 	
	 Discussion ensued on potential solutions for harmonisation of demand side and supply side. Mr Breidenbaugh noted that changing availability requirements would require that DSAs review their portfolio of customers. However, changing other variables such as minimum hours of duration etc. would create unmanageable risks for DSA's because these variables affect all customers in the same way and little room for adaptability across portfolio is left for the DSA. Mr Renaud cautioned against over-specifying DSM requirements as that would severely limit the entry of DSM into the market. 	
	• The discussion concluded with the members agreeing that more work should be conducted on the potential solutions. The Chair noted that the solutions should be debated keeping in mind the right signals need to be provided at the right time. The Chair noted that some of these issues were also being assessed in PJM market. He encouraged members to send their feedback on potential solutions to the IMO. Members requested that information be provided on aspects of different capacity markets and on the dispatch of DSM since market start. Members also requested that the cost-effectiveness of different solutions should be presented.	
	Action Points:	
	 RCMWG Members to provide feedback to the IMO on the proposed solutions for harmonisation of demand and supply side sources 	
	The IMO to include information on the cost effectiveness of proposed solutions or harmonisation	
	 The IMO to provide information to members on aspects of different capacity markets 	
5	PRESENTATION: RCM Review Report-2 by Mr Mike Thomas, The Lantau Group	
	The Chair invited Mr Thomas to present his paper.	
	The following points of discussion were noted:	

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	 On the issue of forecasting uncertainty, Mr Sutherland noted that forecasting error made a significant contribution to oversupply of capacity. Mr MacLean observed that because forecasts inherently have a level of uncertainty, the question to ponder is what protections exist in the market for existing loads to be shielded from the costs of committed loads not becoming available. There was some discussion on the level of DSM contracted bilaterally in the market. Mr Breidenbaugh noted that if the intent was to encourage bilateral contracting, then DSM might be driven out of the market. Mr Thomas noted that the intent of the proposed solution was not to drive out any particular technology from the market. On the table detailing factors to which capacity additions could be attributed. Mr Dykstra queried if data could be provided on capacity credits by facility. Further, Mr Dykstra noted that the objective was to make sure that at any time, the right price signal was available to anyone contemplating making capacity available to the market. He noted that the reserve capacity price should be set at the marginal value of a unit of capacity irrespective of the marginal cost associated with that unit of capacity. He added that the price-based solution may not be productive as it is an administrative tool and it might be more useful to consider a spigot control mechanism. Discussion ensued among members on the advantages and disadvantages of a spigot control mechanism vis-a-vis a price-based mechanism. Mr Breidenbaugh observed that most capacity markets have some form of administrative determination of variables such as downward sloping demand curve that ultimately determine the price. He observed that the cost of new entry should be well below the capacity price to encourage new technology. At the same time, it should reduce enough at appropriate times to signal the exit of inefficient technologies. Discussion ensued among members on bilateral contracting in the market. The Chair noted	
6	CLOSED The Chair thanked all members for attending the meeting and added that the next meeting is tentative based on the development of the two work streams. He also noted that the next work stream on dynamic	

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	refund regime would be kick-started in the next meeting. He declared the meeting closed at 5.30 pm.	