
Effectiveness of Automated Procedures for Identifying Dispatch Intervals Subject to Review

October 2021

2020 Review for the National Electricity Market

Important notice

PURPOSE

This report is provided in accordance with National Electricity Rules (NER) clause 3.9.2B(l). It is based on information available to AEMO as at 18 October 2021.

Unless otherwise indicated, terms in this report have the same meanings as those defined in the NER.

All references to time in this report are based on Australian Eastern Standard Time (AEST).

DISCLAIMER

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GLOSSARY

Term	Definition
DI	Dispatch Interval
IC	Interconnector
MII	Manifestly Incorrect Input
NEM	National Electricity Market
NER	National Electricity Rules
OCD	Over-Constrained Dispatch
Price change	The price threshold is breached if either: $\text{Min}(\text{ROPi} , \text{ROPi}-1) > X$ and $\text{Price Change} = \text{ROPi} - \text{ROPi}-1 / \text{Min}(\text{ROPi} , \text{ROPi}-1) > Y$ Or, $\text{Min}(\text{ROPi} , \text{ROPi}-1) \leq X$ and $\text{Price Change} = \text{ROPi} - \text{ROPi}-1 > X * Y$ Where X and Y are regional specific parameters.
ROP	Regional Original Price
IC	Interconnector
NEMDE	NEM Dispatch Engine

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1. Summary

The National Electricity Rules (NER) provide for AEMO to apply automated procedures to identify dispatch intervals (DIs) where manifestly incorrect inputs (MII) may have resulted in material differences in pricing outcomes.

Those DIs identified by the automated procedures are subject to review by AEMO to determine whether the DI in fact contained a MII to the dispatch algorithm. The NER also require AEMO to review and report on the effectiveness of the automated procedures.

This report analyses the effectiveness of AEMO's automated procedures for identifying DIs subject to review during 2020. It has been published to meet the requirements of rule 3.9.2B(l) of the NER.

In 2020, the automated procedures identified 376 DIs that were subject to review. Subsequent investigation indicated that none of the identified DIs contained a MII. Accordingly, there was no evidence in 2020 that the automated procedures were effective in detecting instances where an MII may have resulted in material differences in pricing outcomes.

In 2020, AEMO established the Scheduling Error Working Group (SEWG) to progress its scheduling error work program and facilitate direct engagement with the industry¹. The SEWG recommended a number of changes to the scheduling error framework, which also extended to the MII process. The SEWG's recommendation for the MII process was to review the price and flow trigger thresholds used in the automated procedures.

Having reviewed the effectiveness of the automated procedures for 2020, AEMO is proposing a change in interconnector flow thresholds for triggering MII to improve the effectiveness of the existing automated procedures. AEMO will now proceed to consult with NEM registered participants on the proposed change.

2. Analysis of dispatch intervals subject to review during 2020

The table in Appendix A lists the DIs that were automatically identified as subject to review for the year 2020, as well as the associated material differences in prices and interconnector flows. For each of the DIs identified, AEMO followed the review process as outlined in the document "Automated procedures for identifying dispatch intervals subject to MII"² to determine whether to accept or reject the prices (Price status (A=accepted, R=rejected)) in real time.

Annually, AEMO then reviews all the identified DIs and lists the reasons (Explanation and Reason) as part of its assessment of the effectiveness of the automated procedures.

¹ The SEWG was comprised of several industry participants and met on four occasions. All meeting materials are available from <https://aemo.com.au/en/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/scheduling-error-working-group-sewg>.

² Process available from https://www.aemo.com.au/-/media/Files/Electricity/NEM/Security_and_Reliability/Dispatch/Policy_and_Process/2017/Automated-Procedures-For-Identifying-Dispatch-Intervals-Subject-to-Review.docx.

3. Results

This section summarises the results from AEMO’s automated procedures for identifying DIs subject to review during 2020. The automated procedures worked as designed in all cases, and flagged 376 DIs as subject to review during 2020. Of these 376 DIs, the prices were all accepted, and the analysis in Appendix A shows that none of the flagged DIs contained a MII. Consequently, the automated procedures appear to have achieved their primary purpose, which is to detect instances where MII may have resulted in material differences in pricing outcomes.

However, the rate of false positives for the automated procedures was 100% in 2020. In other words, all the dispatch intervals that were flagged as subject to review contained no MII. Please see Table 1 for statistics.

Of the false positives:

- 34% came from the Terranora Interconnector (IC). Of those, the majority were due to oscillation occurring on the Terranora Interconnector caused by loss maximisation from the National Electricity Market Dispatch Engine (NEMDE) when either New South Wales or Queensland has a negative spot price.
- 46% came from the Heywood Interconnector. Of those, the majority were due to rebidding, mostly from semi-scheduled units rebidding from negative price bands to positive price bands or vice versa.

Table 1 Statistics of the MII dispatch intervals subject to review

Number of false positive MII DIs				
376 DIs (100%)				
Terranora IC		Heywood IC		Other ICs
126 DIs (34%)		172 DIs (46%)		78 DIs (21%)
Negative prices	Other reasons	Rebidding	Other reasons	
113 DIs (30%)	13 DIs (4%)	150 DIs (40%)	22 DIs (6%)	

4. Recommendations

The current automated procedures cannot be considered effective in absolute terms, because the rate of false positives was 100% in 2020.

AEMO proposes to relax the interconnector flow trigger thresholds on the Terranora IC and Heywood IC in the automated procedures to reduce the number of false positives, because:

1. There has been a significant increase in the incidence of negative prices in the NEM, which causes large shifts on the interconnector flow on both Terranora and Heywood in particular.
2. The Heywood IC trigger threshold in the automated procedures has not been increased since the last capacity upgrade in 2015.

Consequently, AEMO considers that selected increases to these two flow triggers is unlikely to increase the risk of MIIs not being detected by the automated procedures. On the other hand, fewer false positives would

reduce market price uncertainty while the dispatch intervals are subject to review, and decrease the probability of MIs being declared incorrectly.

AEMO has proposed revised interconnector flow trigger thresholds as shown in Table 2, to increase the effectiveness of the automated procedures.

Table 2 Current and proposed parameters for each interconnector

Interconnector	Direction	Z (megawatts [MW])
NSW1-QLD1 (QNI)	NSW ⇒ QLD	450
	QLD ⇒ NSW	240
N-Q-MNSP1 (Terranora)	NSW ⇒ QLD	80 ⇒ 100
	QLD ⇒ NSW	80 ⇒ 100
T-V-MNSP1 (Basslink)	TAS ⇒ VIC	190
	VIC ⇒ TAS	190
VIC1-NSW1	VIC ⇒ NSW	500
	NSW ⇒ VIC	500
V-SA (Heywood)	VIC ⇒ SA	150 ⇒ 300
	SA ⇒ VIC	150 ⇒ 300
V-S-MNSP1 (Murraylink)	VIC ⇒ SA	100
	SA ⇒ VIC	100

Level of proposed changes

AEMO proposes to increase the flow trigger threshold on Terranora from 80 megawatts (MW) to 100 MW in each direction. This level of increase is considered as the change in flow on Terranora is between 80 MW and 100 MW when oscillation occurs as a result of loss maximisation during negative pricing.

AEMO also proposes to increase the flow trigger threshold on Heywood from 150 MW to 300 MW in each direction. The increase is in relation with the last capacity upgrade in 2015 from 550 MW to 850 MW.

5. Consultation

In accordance with NER rule 3.9.2B(h), AEMO must develop the automated procedures in consultation with NEM registered participants.

AEMO is now proposing to change the automated procedures as a result of its review of the dispatch intervals subject to review in 2020, for the reasons explained in this report.

AEMO has therefore published a notice of consultation with this report, seeking feedback on the proposed changes to the Terranora and Heywood interconnector flow trigger thresholds in the automated procedures.

Submissions on the proposed changes are invited by 15 November 2021.

Appendix A – Dispatch intervals subject to review during 2020

Incident number	Date time	Region	Price Status (R = rejected) A = accepted,	Price Change (% Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
1	4/01/2020 15:45	NSW1	A	133.98	299.60	40,439.90	N-Q-MNSP1	-73	-156	-83	80	NSW high demand and network separation caused by VNI trip	High demand / Network separation / VNI unplanned outage
	4/01/2020 15:45	QLD1	A	56.75	254.56	14,700.00	N-Q-MNSP1	-73	-156	-83	80		
2	4/01/2020 16:20	NSW1	A	160.50	2,205,000.00	13,653.51	VIC1-NSW1	0	523	523	500	Bushfires and VIC-NSW separation and violating constraints taken out.	Constraint action
	4/01/2020 16:20	VIC1	A	3.75	-90.95	250.00	VIC1-NSW1	0	523	523	500		
3	4/01/2020 16:25	SA1	A	6.59	273.53	36.03	V-SA	294	103	-190	150	Increase in SA wind generation due to rebidding to lower price bands and increased wind forecast	Reduced demand / Wind generation change / Rebidding
	4/01/2020 16:25	VIC1	A	6.18	250.00	34.81	V-SA	294	103	-190	150		
4	11/01/2020 07:35	TAS1	A	8.03	44.54	402.30	T-V-MNSP1	-260	-62	198	190	Ramp down on Basslink interconnector due to maintenance on Basslink	Basslink outage
5	11/01/2020 15:35	VIC1	A	213.78	-0.01	-213.79	V-SA	-36	-194	-159	150	Increase in wind generation in SA	Wind generation change
	11/01/2020 15:35	SA1	A	203.70	-0.01	-203.71	V-SA	-36	-194	-159	150		
6	15/01/2020 16:30	SA1	A	18.62	-1,000.00	56.75	V-SA	-525	-285	240	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
7	20/01/2020 13:20	NSW1	A	1,542.34	1,560.86	18.52	VIC1-NSW1	384	-500	-884	500	Rebidding to lower price bands in NSW, rebidding to higher price bands in VIC	Rebidding
	20/01/2020 13:20	VIC1	A	21.58	48.58	-1,000.00	VIC1-NSW1	384	-500	-884	500		
8	22/01/2020 16:30	VIC1	A	12.87	246.86	-20.79	VIC1-NSW1	-117	-736	-620	500	Rebidding to lower price bands	Rebidding
9	23/01/2020 13:40	SA1	A	3.74	-826.66	-174.32	V-SA	-460	-234	227	150	Decrease in SA solar generation due to rebidding to higher price bands	Rebidding
	23/01/2020 13:40	VIC1	A	4.10	-943.00	-184.78	V-SA	-460	-234	227	150		

Incident number	Date time	Region	Price Status (R = rejected) A = accepted,	Price Change (% Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
10	23/01/2020 13:45	VIC1	A	3.61	-184.78	-40.05	V-SA	-234	-12	222	150	Decrease in wind generation in SA	Wind generation change
	23/01/2020 13:45	SA1	A	3.33	-174.32	-40.22	V-SA	-234	-12	222	150		
11	23/01/2020 14:10	NSW1	A	140.84	103.63	14,700.00	N-Q-MNSP1	-73	-155	-82	80	NSW high demand and VNI constraint action	High demand / Constraint action
12	23/01/2020 16:10	VIC1	A	23.01	-954.45	-39.76	V-SA	-278	71	350	150	Decrease in SA wind generation due to rebidding to higher price bands and reduced wind forecast	Rebidding / Wind generation change
	23/01/2020 16:10	SA1	A	20.68	-886.86	-40.90	V-SA	-278	71	350	150		
13	30/01/2020 17:15	SA1	A	10.29	383.78	-41.31	V-SA	325	144	-181	150	Rebidding to lower price bands	Rebidding
	30/01/2020 17:15	QLD1	A	3.85	91.78	-32.23	NSW1-QLD1	-1,127	-294	833	240		
	30/01/2020 17:15	NSW1	A	5.30	141.18	-32.80	NSW1-QLD1	-1,127	-294	833	450		
	30/01/2020 17:15	VIC1	A	9.82	352.99	-40.01	V-SA	325	144	-181	150		
14	30/01/2020 17:35	QLD1	A	8,894.36	-6.35	8,888.01	NSW1-QLD1	-474	-907	-433	240	Rebidding to higher price bands and reduction in generation availability	Rebidding
15	30/01/2020 17:55	QLD1	A	94.63	0.00	-94.63	N-Q-MNSP1	-102	-183	-81	80	Non-least loss flow due to negative price	Loss maximisation
	30/01/2020 17:55	NSW1	A	108.04	0.00	-108.04	N-Q-MNSP1	-102	-183	-81	80		
16	30/01/2020 18:15	SA1	A	8.64	12,422.79	119,721.16	V-SA	312	-7	-319	150	Trip of VIC unit	Supply change
	30/01/2020 18:15	VIC1	A	9.56	11,500.80	121,447.89	V-SA	312	-7	-319	150		
17	30/01/2020 18:55	QLD1	A	786.44	0.00	-786.44	N-Q-MNSP1	-57	23	80	80	Circulating flow due to negative price	Loss maximisation
	30/01/2020 18:55	NSW1	A	897.23	0.00	-897.23	N-Q-MNSP1	-57	23	80	80		
18	30/01/2020 19:05	QLD1	A	12.95	-578.14	48.36	NSW1-QLD1	-886	-555	330	240	Rebidding to higher price bands	Rebidding
19	31/01/2020 15:55	QLD1	A	3.15	49.99	-23.27	NSW1-QLD1	-892	-315	577	240	Rebidding to lower price bands	Rebidding
	31/01/2020 15:55	NSW1	A	4.20	76.94	-24.02	NSW1-QLD1	-892	-315	577	450		
20	31/01/2020 16:05	QLD1	A	10,532.67	-10.48	10,522.18	N-Q-MNSP1	-202	-122	80	80	Rebidding into higher price bands and non-least loss flow due to negative price	Rebidding / Loss maximisation
	31/01/2020 16:05	NSW1	A	12,796.98	-11.12	12,785.86	N-Q-MNSP1	-202	-122	80	80		
	31/01/2020 16:05	NSW1	A	12,796.98	-11.12	12,785.86	NSW1-QLD1	-439	-1,042	-603	450		

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	31/01/2020 16:05	QLD1	A	10,532.67	-10.48	10,522.18	NSW1-QLD1	-439	-1,042	-603	240		
21	31/01/2020 17:20	NSW1	A	4.19	87.73	454.89	N-Q-MNSP1	-96	-176	-80	80	Demand increase	Demand change
22	1/02/2020 06:50	VIC1	A	77.77	86.81	9.04	T-V-MNSP1	-127	73	200	190	Change in interconnector flow due to constraint	Constraint action
23	1/02/2020 20:40	TAS1	A	384.29	18.07	402.36	T-V-MNSP1	294	94	-200	190	Rebidding to higher price bands	Rebidding
	1/02/2020 20:40	VIC1	A	5.88	34.24	235.40	T-V-MNSP1	294	94	-200	190	Reduced generation availability	Change in generation availability
24	7/02/2020 20:05	TAS1	A	8.73	41.34	402.21	T-V-MNSP1	163	-39	-202	190	Rebidding to higher price bands	Rebidding
25	13/02/2020 09:15	SA1	A	3.27	70.44	301.00	V-S-MNSP1	120	0	-120	100	Change in interconnector flow due to constraint	Constraint action
26	17/02/2020 17:20	SA1	A	15.49	69.00	-1,000.00	V-SA	-30	177	207	150	Re-synchronising of SA to the NEM	Re-synchronisation
27	18/02/2020 12:40	TAS1	A	284.74	284.11	-0.63	T-V-MNSP1	152	349	197	190	Rebidding to lower price bands	Rebidding
28	18/02/2020 22:15	TAS1	A	4.74	402.34	70.06	T-V-MNSP1	64	-155	-219	190	Rebidding to higher price bands	Rebidding
29	19/02/2020 14:35	SA1	A	19.96	52.73	-1,000.00	V-SA	40	-116	-156	150	Increase in SA wind and solar generation due to rebidding to lower price bands	Rebidding
30	19/02/2020 14:40	SA1	A	22.07	-1,000.00	47.47	V-SA	-116	41	156	150	Decrease in SA solar generation due to rebidding to higher price bands	Rebidding
31	19/02/2020 15:05	SA1	A	21.30	49.27	-1,000.00	V-SA	39	-116	-154	150	Increase in SA wind and solar generation due to rebidding to lower price bands	Rebidding
32	19/02/2020 15:10	SA1	A	21.87	-1,000.00	47.91	V-SA	-116	42	157	150	Decrease in SA wind and solar generation due to rebidding to higher price bands	Rebidding
33	24/02/2020 03:20	SA1	A	17.61	-1,000.00	60.20	V-SA	-126	40	166	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
34	1/03/2020 11:15	SA1	A	912.54	12.54	-900.00	V-S-MNSP1	-61	-163	-102	100	Rebidding to lower price bands	Rebidding
35	1/03/2020 11:20	SA1	A	43.75	-900.00	21.05	V-S-MNSP1	-163	-54	110	100	Rebidding to higher price bands	Rebidding
36	1/03/2020 22:50	SA1	A	13.00	-600.16	50.01	V-SA	-147	11	158	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding

Incident number	Date time	Region	Price Status (R = rejected) A = accepted,	Price Change (% Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
37	2/03/2020 13:55	SA1	A	48.00	300.00	14,700.00	V-S-MNSP1	122	0	-122	100	Failed resynchronisation of SA to the NEM	Re-synchronisation
38	2/03/2020 22:10	SA1	A	13.33	-616.74	50.01	V-SA	-144	9	153	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
39	2/03/2020 23:25	SA1	A	9.75	-396.89	45.35	V-SA	-149	15	164	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
40	3/03/2020 06:00	SA1	A	10.76	-1,000.00	102.43	V-SA	-138	49	187	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
41	3/03/2020 08:20	SA1	A	13.17	-1,000.00	82.19	V-SA	-151	47	198	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
42	3/03/2020 08:35	SA1	A	285.31	300.00	14.69	V-SA	45	-110	-155	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
43	4/03/2020 12:45	SA1	A	5.86	62.70	430.15	V-SA	21	-130	-151	150	Rebidding to higher price bands	Rebidding
	4/03/2020 12:45	VIC1	A	6.21	61.67	444.46	V-SA	21	-130	-151	150		
44	5/03/2020 05:35	TAS1	A	384.03	402.24	18.22	T-V-MNSP1	100	294	194	190	Rebidding into lower price bands in TAS	Rebidding
45	14/03/2020 10:55	SA1	A	43.40	-1,000.00	23.58	V-SA	-538	-340	198	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
46	14/03/2020 12:45	SA1	A	40.73	-1,000.00	25.17	V-SA	-531	-360	171	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
47	14/03/2020 13:20	SA1	A	46.51	-1,000.00	21.97	V-SA	-525	-315	210	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
48	14/03/2020 15:20	SA1	A	31.78	-1,000.00	32.49	V-SA	-536	-274	263	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
49	19/03/2020 08:05	TAS1	A	9.34	38.91	402.18	T-V-MNSP1	-187	-382	-195	190	Rebidding to higher price bands	Rebidding
50	29/03/2020 13:40	SA1	A	15.97	-1,000.00	66.80	V-SA	-518	-233	286	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
51	3/04/2020 23:20	SA1	A	16.59	-1,000.00	64.14	V-SA	-518	-233	285	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding

Incident number	Date time	Region	Price Status (R = rejected) A = accepted,	Price Change (% Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
52	4/04/2020 11:25	SA1	A	29.23	-1,000.00	35.42	V-SA	-507	-356	151	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
53	4/04/2020 16:40	SA1	A	26.66	-1,000.00	38.98	V-SA	-550	-353	197	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
54	4/04/2020 22:55	TAS1	A	7.98	402.32	44.82	T-V-MNSP1	50	-155	-205	190	Rebidding to higher price bands	Rebidding
55	5/04/2020 12:50	SA1	A	27.95	-1,000.00	37.11	V-SA	-525	-363	162	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
56	10/04/2020 12:10	SA1	A	9.11	-302.00	37.26	V-SA	-515	-364	151	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
57	11/04/2020 11:40	SA1	A	1,000.00	-1,000.00	0.00	V-SA	-548	-281	267	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
58	11/04/2020 12:15	SA1	A	900.00	-900.00	0.00	V-SA	-550	-365	185	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
59	11/04/2020 12:50	SA1	A	1,000.00	-1,000.00	0.00	V-SA	-525	-352	173	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
60	11/04/2020 13:50	SA1	A	40.95	-900.00	22.53	V-SA	-526	-340	187	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
61	16/04/2020 16:10	SA1	A	37.43	-1,000.00	27.45	V-SA	-528	-295	234	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
62	16/04/2020 16:50	SA1	A	25.32	-1,000.00	41.12	V-SA	-550	-172	378	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
63	21/04/2020 11:25	SA1	A	918.36	-900.00	18.36	V-SA	-524	-179	345	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
64	21/04/2020 12:20	SA1	A	26.12	-900.00	35.83	V-SA	-495	-144	351	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
65	4/05/2020 11:20	QLD1	A	3.78	-72.05	25.95	NSW1-QLD1	-256	-742	-486	240	Change in interconnector flow due to constraint	Constraint action

Incident number	Date time	Region	Price Status (R = rejected) A = accepted,	Price Change (% Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
66	7/05/2020 19:05	TAS1	A	889.11	33.47	29,789.14	T-V-MNSP1	412	208	-204	190	Change in interconnector flow due to constraint	Constraint action
67	9/05/2020 03:45	TAS1	A	135.88	-1.49	134.39	T-V-MNSP1	-75	-271	-195	190	Rebidding to higher price bands	Rebidding
68	9/05/2020 11:35	SA1	A	1,013.59	13.59	-1,000.00	V-SA	-332	-550	-218	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
69	9/05/2020 12:05	SA1	A	9.11	21.45	-174.00	V-SA	-376	-550	-174	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
70	12/05/2020 12:25	SA1	A	34.15	-1,000.00	30.16	V-SA	-525	-227	298	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
71	19/05/2020 11:15	QLD1	A	3.35	30.71	-72.12	N-Q-MNSP1	-25	57	82	80	Circulating flow due to negative price	Loss maximisation
72	19/05/2020 14:10	SA1	A	1,018.97	18.97	-1,000.00	V-SA	-335	-530	-194	150	Change in interconnector flow due to constraint	Constraint action
73	19/05/2020 14:15	SA1	A	32.61	-1,000.00	31.64	V-SA	-530	-244	286	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
74	24/05/2020 04:25	TAS1	A	109.39	8.26	117.64	T-V-MNSP1	-131	-328	-196	190	Rebidding to higher price bands in TAS, lower bands in VIC	Rebidding
75	28/05/2020 10:10	QLD1	A	30.58	-996.80	-31.56	N-Q-MNSP1	38	-47	-84	80	Circulating flow due to negative price	Loss maximisation
76	8/06/2020 11:05	TAS1	A	12.03	30.88	402.40	T-V-MNSP1	185	-27	-212	190	Rebidding to higher price bands	Rebidding
77	8/06/2020 16:35	TAS1	A	9.80	274.09	25.38	T-V-MNSP1	165	358	192	190	Rebidding to lower price bands	Rebidding
78	8/06/2020 16:35	VIC1	A	4.53	290.17	52.46	T-V-MNSP1	165	358	192	190	Rebidding to lower price bands	Rebidding
79	9/06/2020 00:35	TAS1	A	8.47	42.47	402.38	T-V-MNSP1	191	-1	-192	190	Rebidding to higher price bands	Rebidding
80	9/06/2020 17:05	SA1	A	7.20	319.67	38.99	V-SA	239	493	254	150	Rebidding to lower price bands	Rebidding
	9/06/2020 17:05	VIC1	A	7.81	298.89	33.94	V-SA	239	493	254	150		
81	11/06/2020 06:05	TAS1	A	390.84	402.17	11.33	T-V-MNSP1	97	293	197	190	Rebidding to lower price bands	Rebidding
82	20/06/2020 09:45	TAS1	A	385.08	17.24	402.32	T-V-MNSP1	413	220	-193	190	Rebidding to higher price bands	
83	20/06/2020 13:35	QLD1	A	3.96	24.37	-72.05	N-Q-MNSP1	-33	-113	-80	80	Non-least loss flow due to negative price	Loss maximisation

Incident number	Date time	Region	Price Status (R = rejected) A = accepted,	Price Change (% Absolute)	Previous ROP (\$/MWh)	Current ROP (\$/MWh)	Interconnector	Prev Flow (MW)	Current Flow (MW)	Abs change in flow (MW)	Region flow threshold (MW)	Explanation	Reason
84	24/06/2020 12:20	QLD1	A	71.54	-72.05	-0.51	N-Q-MNSP1	-121	-41	80	80	Non-least loss flow due to negative price	Loss maximisation
85	25/06/2020 09:30	QLD1	A	84.05	-72.05	12.00	N-Q-MNSP1	-126	-45	81	80	Non-least loss flow due to negative price	Loss maximisation
86	29/06/2020 06:05	TAS1	A	391.60	402.42	10.82	T-V-MNSP1	96	297	201	190	Rebidding into lower price bands and increased generation availability	Rebidding / Change in generation availability
87	30/06/2020 12:45	QLD1	A	3.40	30.11	-72.12	N-Q-MNSP1	-33	-113	-80	80	Non-least loss flow due to negative price	Loss maximisation
88	2/07/2020 14:05	QLD1	A	3.73	25.99	-70.86	N-Q-MNSP1	-44	36	80	80	Circulating flow due to negative price	Loss maximisation
89	4/07/2020 11:40	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	69	-12	-80	80	Circulating flow due to negative price	Loss maximisation
90	4/07/2020 14:10	QLD1	A	292.88	-293.72	-0.84	N-Q-MNSP1	58	-23	-80	80	Circulating flow due to negative price	Loss maximisation
91	7/07/2020 01:05	TAS1	A	9.49	38.35	402.32	T-V-MNSP1	207	1	-206	190	Rebidding to higher price bands	Rebidding
92	7/07/2020 11:45	VIC1	A	3.62	64.76	298.89	T-V-MNSP1	275	60	-215	190	Interconnector ramp constraint invoked due to Bassline outage	Constraint action
93	11/07/2020 12:35	VIC1	A	3.07	69.46	282.71	V-SA	-274	-472	-197	150	Rebidding to higher price bands	Rebidding
94	12/07/2020 02:05	TAS1	A	7.20	49.05	402.36	T-V-MNSP1	408	213	-196	190	Rebidding to higher price bands	Rebidding
95	13/07/2020 19:05	TAS1	A	6.34	54.82	402.38	T-V-MNSP1	284	81	-202	190	Rebidding to higher price bands	Rebidding
96	17/07/2020 21:15	TAS1	A	5.59	402.26	61.09	T-V-MNSP1	38	-153	-191	190	Rebidding to higher price bands and change in interconnector flow due to constraint	Rebidding / constraint action
97	19/07/2020 14:40	SA1	A	50.50	-1,000.00	20.20	V-SA	-420	-137	283	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
98	19/07/2020 16:35	SA1	A	36.57	-1,000.00	28.12	V-SA	-420	-207	213	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
99	21/07/2020 05:05	TAS1	A	111.43	122.36	10.94	T-V-MNSP1	80	294	214	190	Rebidding to lower price bands	Rebidding
100	21/07/2020 20:35	SA1	A	3.39	62.69	274.92	V-SA	155	-56	-211	150	Rebidding to higher price bands	Rebidding
101	21/07/2020 20:35	VIC1	A	3.74	60.08	285.00	V-SA	155	-56	-211	150	Rebidding to higher price bands	Rebidding
102	26/07/2020 14:15	QLD1	A	39.31	25.95	-994.10	NSW1-QLD1	-1,028	-750	278	240	Rebidding to higher price bands and change in interconnector flow due to constraint	Rebidding / constraint action

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103	29/07/2020 12:40	QLD1	A	90.78	18.75	-72.03	N-Q-MNSP1	-49	33	82	80	Circulating flow due to negative price	Loss maximisation
104	30/07/2020 09:25	QLD1	A	83.87	11.84	-72.03	N-Q-MNSP1	-57	24	81	80	Circulating flow due to negative price	Loss maximisation
105	30/07/2020 12:25	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	-49	32	81	80	Circulating flow due to negative price	Loss maximisation
106	3/08/2020 01:15	TAS1	A	9.01	598.03	59.76	T-V-MNSP1	-75	-268	-193	190	Rebidding from Musselroe WF due to high FCAS prices	Rebidding
107	6/08/2020 00:05	TAS1	A	9.04	40.06	402.10	T-V-MNSP1	229	-21	-250	190	Rebidding to higher price bands	Rebidding
108	9/08/2020 11:50	QLD1	A	84.03	-72.03	12.00	NSW1-QLD1	-57	-339	-281	240	constraint action associated with planned outage of transmission line	Constraint action
109	13/08/2020 13:20	QLD1	A	87.42	-72.03	15.39	N-Q-MNSP1	69	-22	-91	80	Circulating flow due to negative price	Loss maximisation
110	15/08/2020 10:30	QLD1	A	119.72	-103.53	16.19	N-Q-MNSP1	47	-35	-81	80	Circulating flow due to negative price	Loss maximisation
111	15/08/2020 10:45	QLD1	A	3.01	-52.00	25.89	N-Q-MNSP1	53	-28	-81	80	Circulating flow due to negative price	Loss maximisation
112	15/08/2020 11:30	QLD1	A	70.74	-72.03	-1.29	N-Q-MNSP1	41	-49	-90	80	Circulating flow due to negative price	Loss maximisation
113	15/08/2020 13:00	QLD1	A	79.49	7.46	-72.03	N-Q-MNSP1	-41	45	86	80	Circulating flow due to negative price	Loss maximisation
114	15/08/2020 13:05	QLD1	A	70.99	-72.03	-1.04	N-Q-MNSP1	45	-41	-86	80	Circulating flow due to negative price	Loss maximisation
115	15/08/2020 13:15	QLD1	A	433.41	-1.04	-434.45	N-Q-MNSP1	-41	39	80	80	Circulating flow due to negative price	Loss maximisation
116	15/08/2020 13:20	QLD1	A	18.49	-434.45	24.84	N-Q-MNSP1	39	-41	-80	80	Circulating flow due to negative price	Loss maximisation
117	15/08/2020 13:25	QLD1	A	3.90	24.84	-72.03	N-Q-MNSP1	-41	45	86	80	Circulating flow due to negative price	Loss maximisation
118	15/08/2020 13:30	QLD1	A	86.88	-72.03	14.85	N-Q-MNSP1	45	-37	-83	80	Circulating flow due to negative price	Loss maximisation
119	16/08/2020 10:50	QLD1	A	12.55	-72.03	-976.19	N-Q-MNSP1	-50	31	81	80	Circulating flow due to negative price	Loss maximisation
120	16/08/2020 12:10	QLD1	A	1,019.47	-1,000.00	19.47	N-Q-MNSP1	73	-8	-81	80	Circulating flow due to negative price	Loss maximisation
121	17/08/2020 12:30	SA1	A	25.92	-1,000.00	40.12	V-SA	-420	-176	244	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
122	18/08/2020 10:10	QLD1	A	63.03	-44.28	18.75	N-Q-MNSP1	58	-25	-83	80	Circulating flow due to negative price	Loss maximisation
123	18/08/2020 13:05	QLD1	A	90.78	-72.03	18.75	N-Q-MNSP1	58	-39	-97	80	Circulating flow due to negative price	Loss maximisation

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124	18/08/2020 16:05	SA1	A	33.45	30.81	-1,000.00	V-SA	-166	-420	-254	150	Increase in wind generation due to constraint swamping out	Constraint action
125	19/08/2020 09:50	SA1	A	3.42	86.00	379.95	V-SA	-420	-192	228	150	Decrease in wind generation due to constraint swamping in	Constraint action
126	19/08/2020 15:40	SA1	A	16.58	-1,000.00	64.17	V-SA	-420	-246	174	150	Increase in demand and decrease in SA wind generation due to rebidding to higher price bands	Demand change / Rebidding
127	19/08/2020 16:30	SA1	A	16.55	-1,000.00	64.31	V-SA	-398	-223	175	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
128	20/08/2020 17:35	TAS1	A	387.04	402.22	15.18	T-V-MNSP1	-434	-223	211	190	Rebidding to lower price bands	Rebidding
129	21/08/2020 01:40	SA1	A	20.18	-992.38	51.75	V-SA	-420	-165	255	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
130	21/08/2020 15:35	SA1	A	18.37	57.57	-1,000.00	V-SA	-179	-420	-241	150	Increase in wind generation due to constraint swamping out	Constraint action
131	22/08/2020 13:05	SA1	A	50.74	20.10	-1,000.00	V-SA	-122	-420	-298	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
132	22/08/2020 13:10	SA1	A	23.37	-1,000.00	44.70	V-SA	-420	-166	254	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
133	22/08/2020 13:35	SA1	A	86.24	84.18	-2.06	V-SA	-20	-420	-400	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
	22/08/2020 13:35	VIC1	A	75.41	84.36	8.95	V-SA	-20	-420	-400	150		
134	22/08/2020 15:05	SA1	A	3.29	84.77	-37.00	V-SA	-198	-420	-222	150	Rebidding to lower price bands	Rebidding
135	22/08/2020 17:20	SA1	A	15.66	-994.69	67.83	V-SA	-420	-81	339	150	Decrease in wind generation and increase in demand	Wind generation change / Demand change
136	22/08/2020 17:35	VIC1	A	4.21	290.99	55.90	V-SA	95	-420	-515	150	Increase in wind generation	Wind generation change
	22/08/2020 17:35	SA1	A	6.14	300.00	42.00	V-SA	95	-420	-515	150		
137	24/08/2020 18:30	QLD1	A	18.25	591.42	30.73	NSW1-QLD1	-1,089	-677	413	240	Rebidding to lower price bands	Rebidding
138	24/08/2020 18:40	QLD1	A	24.43	60.39	1,535.69	NSW1-QLD1	-817	-1,085	-268	240	Rebidding to higher price bands	Rebidding
139	24/08/2020 21:05	VIC1	A	3.21	71.83	302.22	V-SA	425	187	-237	150	Decrease in available generation	Change in available generation

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140	24/08/2020 22:05	QLD1	A	4.91	44.18	261.01	NSW1-QLD1	-1,072	-776	296	240	Increase in QLD demand and rebidding	Demand change / Rebidding
	24/08/2020 22:05	VIC1	A	4.37	55.90	299.99	V-SA	365	168	-197	150	Rebidding to higher price bands	Rebidding
	24/08/2020 22:05	SA1	A	4.00	63.00	315.18	V-SA	365	168	-197	150		
141	25/08/2020 06:05	TAS1	A	143.76	143.14	-0.62	T-V-MNSP1	182	396	213	190	Rebidding to lower price bands	Rebidding
142	25/08/2020 06:35	VIC1	A	10.12	285.46	25.67	V-SA	-276	52	328	150	Rebidding to lower price bands	Rebidding
	25/08/2020 06:35	SA1	A	8.84	257.14	26.12	V-SA	-276	52	328	150		
143	25/08/2020 07:05	VIC1	A	6.96	290.99	36.57	V-SA	73	350	277	150	Increase in available generation and rebidding to lower price bands	Change in available generation / Rebidding
	25/08/2020 07:05	SA1	A	6.24	296.86	41.00	V-SA	73	350	277	150		
144	25/08/2020 10:20	QLD1	A	3.83	-72.03	25.41	N-Q-MNSP1	33	-49	-82	80	Circulating flow due to negative price	Loss maximisation
145	25/08/2020 11:00	QLD1	A	90.78	-72.03	18.75	N-Q-MNSP1	47	-49	-96	80	Circulating flow due to negative price	Loss maximisation
146	25/08/2020 11:25	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	-49	32	81	80	Circulating flow due to negative price	Loss maximisation
147	25/08/2020 12:00	QLD1	A	80.38	-72.03	8.35	N-Q-MNSP1	60	-21	-81	80	Circulating flow due to negative price	Loss maximisation
148	25/08/2020 12:45	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	46	-41	-87	80	Circulating flow due to negative price	Loss maximisation
149	25/08/2020 12:50	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	-41	59	100	80	Circulating flow due to negative price	Loss maximisation
150	25/08/2020 17:05	VIC1	A	3.25	93.63	22.04	VIC1-NSW1	770	206	-565	500	Rebidding in both regions	Rebidding
	25/08/2020 17:05	NSW1	A	3.77	106.85	22.40	VIC1-NSW1	770	206	-565	500		
151	26/08/2020 11:50	QLD1	A	65.86	18.97	-46.89	N-Q-MNSP1	-31	52	82	80	Circulating flow due to negative price	Loss maximisation
152	26/08/2020 12:50	QLD1	A	3.83	-72.03	25.41	N-Q-MNSP1	54	-27	-81	80	Circulating flow due to negative price	Loss maximisation
153	26/08/2020 22:35	TAS1	A	86.43	9.95	96.38	T-V-MNSP1	442	230	-212	190	Rebidding to higher price bands	Rebidding
154	27/08/2020 11:20	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	-47	38	84	80	Circulating flow due to negative price	Loss maximisation
155	27/08/2020 11:25	QLD1	A	70.74	-72.03	-1.29	N-Q-MNSP1	38	-49	-87	80	Circulating flow due to negative price	Loss maximisation
156	28/08/2020 08:25	QLD1	A	62.78	18.50	-44.28	N-Q-MNSP1	-49	32	81	80	Circulating flow due to negative price	Loss maximisation

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157	28/08/2020 10:05	QLD1	A	70.86	-70.86	0.00	N-Q-MNSP1	64	-28	-93	80	Circulating flow due to negative price	Loss maximisation
158	29/08/2020 08:20	QLD1	A	65.39	-46.89	18.50	N-Q-MNSP1	106	25	-81	80	Circulating flow due to negative price	Loss maximisation
159	29/08/2020 08:25	SA1	A	34.50	-1,000.00	29.85	V-SA	-420	-180	240	150	Decrease in SA wind generation	Wind generation change
160	29/08/2020 08:55	VIC1	A	3.76	-70.56	25.58	V-SA	-420	-153	267	150	Rebidding to higher price bands	Rebidding
	29/08/2020 08:55	SA1	A	40.61	-1,000.00	25.25	V-SA	-420	-153	267	150		
161	29/08/2020 09:15	SA1	A	1017.81	-1,000.00	17.81	V-SA	-420	-223	197	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
	29/08/2020 09:15	VIC1	A	86.59	-70.54	16.05	V-SA	-420	-223	197	150		
162	29/08/2020 10:10	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	123	42	-82	80	Circulating flow due to negative price	Loss maximisation
163	29/08/2020 16:45	SA1	A	29.93	-1,000.00	34.56	V-SA	-420	-262	158	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
164	29/08/2020 22:30	SA1	A	27.28	-1,000.00	38.05	V-SA	-420	35	455	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
165	30/08/2020 01:25	SA1	A	26.51	-1,000.00	39.20	V-SA	-420	69	489	150	Decrease in SA wind generation due to rebidding to higher price bands and increase in SA demand	Rebidding / Change in demand
166	31/08/2020 10:10	QLD1	A	90.78	18.75	-72.03	N-Q-MNSP1	19	99	80	80	Circulating flow due to negative price	Loss maximisation
167	1/09/2020 08:25	QLD1	A	62.78	18.50	-44.28	N-Q-MNSP1	-43	39	81	80	Circulating flow due to negative price	Loss maximisation
168	1/09/2020 11:00	SA1	A	18.88	-1,000.00	55.94	V-SA	-310	-59	251	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
169	3/09/2020 01:05	TAS1	A	17.32	21.96	402.29	T-V-MNSP1	350	117	-233	190	Rebidding to higher price bands and change in generation availability	Rebidding / Change in generation availability
170	3/09/2020 10:55	SA1	A	1,011.74	-997.87	13.87	V-SA	-420	-221	199	150	Decrease in SA wind generation due to rebidding to higher price bands and increase in SA demand	Rebidding / Change in demand
171	3/09/2020 11:05	SA1	A	113.18	11.20	-101.98	V-SA	-215	-420	-205	150	Increase in SA wind generation	Wind generation change
172	4/09/2020 12:00	SA1	A	35.28	-1,000.00	29.18	V-SA	-420	-202	218	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding

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173	4/09/2020 15:45	SA1	A	20.88	-1,000.00	50.31	V-SA	-420	-92	328	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
174	4/09/2020 16:05	SA1	A	66.23	74.58	8.35	V-SA	156	-269	-425	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
175	4/09/2020 16:05	VIC1	A	60.81	70.00	9.19	V-SA	156	-269	-425	150		
176	6/09/2020 23:30	SA1	A	26.86	-1,000.00	38.67	V-SA	-420	-119	301	150	Decrease in SA wind generation due to rebidding to higher price bands and increase in demand	Rebidding / Change in demand
177	7/09/2020 09:20	SA1	A	1,014.07	-1,000.00	14.07	V-SA	-420	-234	186	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
178	7/09/2020 13:05	SA1	A	15.77	-20.88	-350.01	V-SA	-143	-310	-167	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
179	10/09/2020 08:15	QLD1	A	65.99	16.00	-49.99	N-Q-MNSP1	-49	32	81	80	Circulating flow due to negative price	Loss maximisation
	10/09/2020 08:15	SA1	A	31.45	-1,000.00	32.85	V-SA	-420	-197	223	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
180	10/09/2020 08:50	SA1	A	31.91	-1,000.00	32.35	V-SA	-420	-237	183	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
181	10/09/2020 10:45	SA1	A	41.35	-1,000.00	24.78	V-SA	-420	-254	166	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
182	10/09/2020 11:20	SA1	A	1,018.75	-1,000.00	18.75	V-SA	-420	-171	249	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
183	11/09/2020 02:40	SA1	A	1,009.03	-1,000.00	9.03	V-SA	-420	-234	186	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
184	11/09/2020 06:40	SA1	A	13.91	-1,000.00	77.49	V-SA	-420	-268	152	150	Decrease in SA wind generation due to rebidding to higher price bands and increase in demand	Rebidding/ Change in demand
185	11/09/2020 08:40	QLD1	A	28.15	-976.19	35.96	NSW1-QLD1	-280	-7	273	240	Rebidding to higher price bands	Rebidding
	11/09/2020 08:40	QLD1	A	28.15	-976.19	35.96	N-Q-MNSP1	114	34	-81	80	Circulating flow due to negative price	Loss maximisation
186	11/09/2020 11:10	QLD1	A	3.06	-72.03	34.92	N-Q-MNSP1	116	33	-83	80	Circulating flow due to negative price	Loss maximisation
187	11/09/2020 12:35	QLD1	A	102.49	-103.53	-1.04	N-Q-MNSP1	88	7	-82	80	Circulating flow due to negative price	Loss maximisation

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188	12/09/2020 00:20	SA1	A	8.75	-250.01	32.28	V-SA	-420	-247	173	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
189	12/09/2020 10:30	QLD1	A	103.53	0.00	-103.53	N-Q-MNSP1	-38	43	82	80	Circulating flow due to negative price	Loss maximisation
190	13/09/2020 10:10	TAS1	A	11.11	402.28	33.21	T-V-MNSP1	76	-154	-230	190	Change in interconnector flow due to constraint	Constraint action
191	15/09/2020 11:00	QLD1	A	83.65	-72.03	11.62	N-Q-MNSP1	70	-11	-81	80	Circulating flow due to negative price	Loss maximisation
192	15/09/2020 11:35	QLD1	A	3.12	22.12	-46.89	N-Q-MNSP1	-41	39	80	80	Circulating flow due to negative price	Loss maximisation
193	15/09/2020 12:40	QLD1	A	90.78	-72.03	18.75	N-Q-MNSP1	80	-2	-82	80	Circulating flow due to negative price	Loss maximisation
194	15/09/2020 12:50	QLD1	A	91.64	19.61	-72.03	N-Q-MNSP1	-41	41	82	80	Circulating flow due to negative price	Loss maximisation
195	15/09/2020 14:10	QLD1	A	91.62	19.59	-72.03	N-Q-MNSP1	-41	40	81	80	Circulating flow due to negative price	Loss maximisation
196	15/09/2020 14:15	QLD1	A	90.91	-72.03	18.88	N-Q-MNSP1	40	-41	-81	80	Circulating flow due to negative price	Loss maximisation
197	17/09/2020 08:55	QLD1	A	65.64	18.75	-46.89	N-Q-MNSP1	-41	42	83	80	Circulating flow due to negative price	Loss maximisation
198	17/09/2020 10:20	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	-41	-122	-81	80	Non-least loss flow due to negative price	Loss maximisation
199	17/09/2020 10:25	SA1	A	32.59	-1,000.00	31.65	V-SA	-420	1	421	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
200	17/09/2020 10:50	QLD1	A	72.27	-72.03	0.24	N-Q-MNSP1	118	38	-81	80	Circulating flow due to negative price	Loss maximisation
201	17/09/2020 10:55	SA1	A	31.98	-1,000.00	32.28	V-SA	-420	-4	416	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
202	17/09/2020 11:00	QLD1	A	70.74	-1.29	-72.03	N-Q-MNSP1	-41	40	81	80	Circulating flow due to negative price	Loss maximisation
203	17/09/2020 11:10	QLD1	A	89.81	-72.03	17.78	N-Q-MNSP1	117	35	-81	80	Circulating flow due to negative price	Loss maximisation
204	17/09/2020 11:25	QLD1	A	87.42	-72.03	15.39	N-Q-MNSP1	118	38	-80	80	Circulating flow due to negative price	Loss maximisation
205	17/09/2020 11:45	QLD1	A	81.19	-72.03	9.16	N-Q-MNSP1	119	38	-81	80	Circulating flow due to negative price	Loss maximisation
206	17/09/2020 11:55	SA1	A	34.36	-1,000.00	29.98	V-SA	-420	-83	337	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
207	18/09/2020 11:00	SA1	A	8.04	-250.01	35.52	V-SA	-420	-207	213	150	Rebidding to higher price bands	Rebidding

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208	18/09/2020 11:30	SA1	A	19.41	-900.00	48.90	V-SA	-420	-209	211	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
209	18/09/2020 11:50	QLD1	A	72.68	18.75	-53.93	N-Q-MNSP1	-33	-117	-84	80	Circulating flow due to negative price	Loss maximisation
210	18/09/2020 13:25	SA1	A	19.17	-1,000.00	55.03	V-SA	-420	-30	390	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
211	19/09/2020 01:35	TAS1	A	102.67	-0.78	101.89	T-V-MNSP1	-128	-324	-196	190	Rebidding to higher price bands	Rebidding
212	19/09/2020 07:00	QLD1	A	101.73	-90.24	11.49	N-Q-MNSP1	-137	-55	81	80	Non-least loss flow due to negative price	Loss maximisation
213	19/09/2020 08:50	SA1	A	30.05	-1,000.00	34.42	V-SA	-420	7	427	150	Decrease in SA wind generation and increase in demand	Wind generation change/ Change in demand
214	19/09/2020 11:10	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	66	-14	-81	80	Circulating flow due to negative price	Loss maximisation
215	19/09/2020 13:20	SA1	A	4.11	-76.70	24.68	V-SA	-420	-254	166	150	SA generation rebidding to higher price bands	Rebidding
216	20/09/2020 01:40	TAS1	A	7.83	400.14	45.34	T-V-MNSP1	58	-155	-213	190	Change in interconnector flow due to constraint	Constraint action
217	21/09/2020 13:00	SA1	A	32.46	-1,000.00	31.78	V-SA	-420	-211	209	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
218	21/09/2020 13:05	SA1	A	32.46	31.78	-1,000.00	V-SA	-211	-420	-209	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
219	21/09/2020 14:20	SA1	A	33.66	-1,000.00	30.62	V-SA	-420	-222	198	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
220	22/09/2020 10:00	SA1	A	13.24	-250.01	20.42	V-SA	-420	-264	156	150	Decrease in SA wind generation due to rebidding to higher price bands and increase in demand	Rebidding/ Change in demand
221	22/09/2020 10:50	SA1	A	10.52	-200.00	21.00	V-SA	-420	-250	170	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
222	22/09/2020 11:05	SA1	A	76.72	0.00	-76.72	V-SA	-203	-420	-217	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
223	22/09/2020 13:50	SA1	A	29.35	-900.00	31.74	V-SA	-420	-250	170	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding

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224	23/09/2020 16:10	SA1	A	30.55	-1,000.00	33.85	V-SA	-420	-200	220	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
225	24/09/2020 08:25	QLD1	A	65.68	-6.35	-72.03	N-Q-MNSP1	-41	44	85	80	Circulating flow due to negative price	Loss maximisation
226	24/09/2020 08:50	QLD1	A	3.29	-72.03	31.44	N-Q-MNSP1	106	18	-87	80	Circulating flow due to negative price	Loss maximisation
227	25/09/2020 08:40	QLD1	A	3.72	-72.03	26.51	N-Q-MNSP1	74	-8	-82	80	Circulating flow due to negative price	Loss maximisation
228	25/09/2020 10:10	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	21	101	80	80	Circulating flow due to negative price	Loss maximisation
229	25/09/2020 13:00	SA1	A	24.18	-900.00	38.82	V-SA	-420	-213	207	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
230	25/09/2020 13:25	SA1	A	14.77	-900.00	65.36	V-SA	-420	-227	193	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
231	25/09/2020 15:20	SA1	A	14.64	-900.00	66.00	V-SA	-420	-189	231	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
232	25/09/2020 16:45	SA1	A	18.00	-1,000.00	58.83	V-SA	-420	-123	297	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
233	25/09/2020 17:05	VIC1	A	3.87	299.50	61.51	V-SA	5	-420	-425	150	Increase in SA wind generation and, SA and VIC generation rebidding to lower price bands	Wind generation change/ Rebidding
	25/09/2020 17:05	SA1	A	300.00	300.00	0.00	V-SA	5	-420	-425	150		
234	25/09/2020 17:20	SA1	A	5.70	-190.00	40.45	V-SA	-420	-260	160	150	Decrease in SA wind generation and increase in SA demand	Wind generation change/ Change in demand
235	26/09/2020 06:45	QLD1	A	40.35	-1,000.00	25.41	N-Q-MNSP1	108	28	-80	80	Circulating flow due to negative price	Loss maximisation
236	26/09/2020 07:05	QLD1	A	3.80	25.71	-72.03	N-Q-MNSP1	-41	41	82	80	Circulating flow due to negative price	Loss maximisation
237	26/09/2020 07:10	QLD1	A	90.78	-72.03	18.75	N-Q-MNSP1	41	-41	-81	80	Circulating flow due to negative price	Loss maximisation
238	26/09/2020 08:40	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	122	41	-81	80	Circulating flow due to negative price	Loss maximisation
239	28/09/2020 06:55	QLD1	A	83.59	11.49	-72.10	N-Q-MNSP1	-33	48	81	80	Circulating flow due to negative price	Loss maximisation
240	28/09/2020 07:40	QLD1	A	3.83	-72.03	25.41	N-Q-MNSP1	57	-23	-80	80	Circulating flow due to negative price	Loss maximisation
241	30/09/2020 07:20	QLD1	A	64.14	17.25	-46.89	N-Q-MNSP1	-41	-122	-81	80	Non-least loss flow due to negative price	Loss maximisation

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242	30/09/2020 14:30	SA1	A	19.18	-1,000.00	55.01	V-SA	-420	-157	263	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
243	2/10/2020 10:05	SA1	A	80.18	-3.02	-83.21	V-SA	36	-402	-438	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
	2/10/2020 10:05	VIC1	A	93.46	-2.96	-96.42	V-SA	36	-402	-438	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
244	2/10/2020 15:05	SA1	A	3.12	24.03	-50.85	V-SA	-205	-420	-215	150	Increase in SA wind generation	Wind generation change
245	2/10/2020 16:00	SA1	A	33.04	-1,000.00	31.21	V-SA	-420	-157	263	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
246	2/10/2020 16:05	SA1	A	33.04	31.21	-1,000.00	V-SA	-157	-420	-263	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
247	3/10/2020 12:15	SA1	A	3.33	-190.00	-43.88	V-SA	-420	-267	153	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
248	7/10/2020 07:05	VIC1	A	290.99	290.99	0.00	T-V-MNSP1	439	220	-219	190	Decrease in demand and change in interconnector flow due to constraint	Demand change / Constraint action
249	9/10/2020 01:10	TAS1	A	8.87	400.14	40.55	T-V-MNSP1	-24	-244	-220	190	Change in interconnector flow due to constraint	Constraint action
250	10/10/2020 07:10	QLD1	A	3.83	-72.03	25.41	N-Q-MNSP1	101	21	-80	80	Circulating flow due to negative price	Loss maximisation
251	10/10/2020 09:50	SA1	A	17.32	-510.73	31.30	V-SA	-420	-267	153	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
252	12/10/2020 13:10	QLD1	A	23.87	43.73	-1,000.00	N-Q-MNSP1	-41	39	80	80	Circulating flow due to negative price	Loss maximisation
253	12/10/2020 13:35	QLD1	A	4.43	44.85	-153.76	NSW1-QLD1	-151	-392	-241	240	Rebidding to lower price bands	Rebidding
254	13/10/2020 09:45	QLD1	A	471.66	31.85	15,054.25	NSW1-QLD1	-257	27	284	240	Generation constrained off due to system strength constraint	Constraint action / Change in generation availability
255	13/10/2020 09:50	QLD1	A	15,037.58	15,054.25	16.67	NSW1-QLD1	27	-278	-305	240	Rebidding to lower price bands	Rebidding
256	13/10/2020 09:55	QLD1	A	1,016.67	16.67	-1,000.00	N-Q-MNSP1	-49	39	88	80	Circulating flow due to negative price	Loss maximisation
257	13/10/2020 10:05	QLD1	A	1,000.73	-1,000.00	0.73	N-Q-MNSP1	38	-49	-87	80	Circulating flow due to negative price	Loss maximisation
258	14/10/2020 10:45	QLD1	A	40.50	-1,000.00	25.31	N-Q-MNSP1	42	-41	-83	80	Circulating flow due to negative price	Loss maximisation

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259	14/10/2020 11:20	QLD1	A	70.73	-72.03	-1.30	N-Q-MNSP1	108	26	-82	80	Circulating flow due to negative price	Loss maximisation
260	14/10/2020 11:40	NSW1	A	8.26	32.39	299.99	N-Q-MNSP1	113	30	-83	80	Generation constrained off and circulating flow due to negative price	Loss maximisation / Change in generation availability
	14/10/2020 11:40	QLD1	A	5.17	-72.03	300.28	NSW1-QLD1	-400	-46	354	240	Generation constrained off due to system strength constraint and increase in demand	Demand change / Constraint action / Change in generation availability
	14/10/2020 11:40	QLD1	A	5.17	-72.03	300.28	N-Q-MNSP1	113	30	-83	80	Generation constrained off and circulating flow due to negative price	Loss maximisation / Change in generation availability
261	14/10/2020 15:10	QLD1	A	4.20	-72.03	22.54	N-Q-MNSP1	38	-43	-80	80	Circulating flow due to negative price	Loss maximisation
262	15/10/2020 11:35	QLD1	A	8.46	39.40	-293.72	NSW1-QLD1	74	-396	-470	240	Rebidding to lower price bands	Rebidding
263	15/10/2020 11:45	QLD1	A	4.04	-72.03	23.68	N-Q-MNSP1	67	-13	-80	80	Circulating flow due to negative price	Loss maximisation
264	16/10/2020 08:30	QLD1	A	4.55	-90.24	25.41	N-Q-MNSP1	118	38	-81	80	Circulating flow due to negative price	Loss maximisation
265	16/10/2020 15:55	QLD1	A	3.66	-72.03	27.06	N-Q-MNSP1	29	-54	-83	80	Circulating flow due to negative price	Loss maximisation
266	17/10/2020 15:50	QLD1	A	3.85	-72.03	25.25	N-Q-MNSP1	109	27	-82	80	Circulating flow due to negative price	Loss maximisation
267	19/10/2020 08:05	QLD1	A	62.84	10.96	-51.88	N-Q-MNSP1	-49	36	85	80	Circulating flow due to negative price	Loss maximisation
268	19/10/2020 08:10	QLD1	A	3.02	-51.88	25.71	N-Q-MNSP1	36	-49	-85	80	Circulating flow due to negative price	Loss maximisation
269	20/10/2020 06:30	QLD1	A	90.78	18.75	-72.03	N-Q-MNSP1	-41	40	81	80	Circulating flow due to negative price	Loss maximisation
270	20/10/2020 06:40	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	94	13	-80	80	Circulating flow due to negative price	Loss maximisation
271	20/10/2020 07:05	QLD1	A	65.40	18.51	-46.89	N-Q-MNSP1	-41	41	82	80	Circulating flow due to negative price	Loss maximisation
272	21/10/2020 08:20	QLD1	A	78.96	6.93	-72.03	N-Q-MNSP1	-49	32	81	80	Circulating flow due to negative price	Loss maximisation
273	22/10/2020 22:05	TAS1	A	11.02	33.22	399.22	T-V-MNSP1	199	-13	-212	190	Rebidding to higher price bands	Rebidding
274	22/10/2020 22:15	TAS1	A	7.91	44.73	398.71	T-V-MNSP1	-33	-247	-214	190	Rebidding to higher price bands / Ramp rate change	Rebidding / Ramp rate change
275	23/10/2020 12:20	QLD1	A	3.83	-72.03	25.41	N-Q-MNSP1	94	13	-81	80	Circulating flow due to negative price	Loss maximisation

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276	24/10/2020 13:00	SA1	A	21.35	-649.33	31.91	V-SA	-395	-222	173	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
277	24/10/2020 13:05	SA1	A	7.27	31.91	-200.00	V-SA	-222	-420	-198	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
278	24/10/2020 13:25	SA1	A	14.94	-579.30	41.56	V-SA	-395	-132	263	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
279	25/10/2020 10:50	SA1	A	437.28	-424.82	12.46	V-SA	-395	-242	153	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
280	25/10/2020 13:15	SA1	A	11.84	-430.07	39.66	V-SA	-395	-227	168	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
281	26/10/2020 16:55	NSW1	A	39.96	1,642.34	40.09	VIC1-NSW1	594	-75	-668	500	Rebidding to higher price bands / Change in interconnector flow due to constraint	Rebidding / Constraint action
282	28/10/2020 15:05	NSW1	A	3.76	62.99	299.60	N-Q-MNSP1	-57	24	81	80	Constraint action due to unplanned line outage	Constraint action / Unplanned line outage
	28/10/2020 15:05	QLD1	A	7.53	58.85	502.02	NSW1-QLD1	-428	-47	381	240	Change in generation due to outage constraint	Constraint action
	28/10/2020 15:05	QLD1	A	7.53	58.85	502.02	N-Q-MNSP1	-57	24	81	80	Constraint action due to unplanned line outage	Constraint action / Unplanned line outage
283	28/10/2020 17:05	VIC1	A	3.01	269.01	67.17	V-SA	-400	-231	169	150	Rebidding to lower price bands	Rebidding
284	29/10/2020 09:20	SA1	A	31.10	1,021.45	31.82	V-SA	50	-104	-154	150	Rebidding to lower price bands	Rebidding
285	29/10/2020 15:40	SA1	A	8.09	-200.00	28.20	V-SA	-82	-420	-338	150	Change in interconnector flow due to removal of outage constraint	Constraint action
286	30/10/2020 01:55	SA1	A	11.10	-510.73	50.56	V-SA	-395	-196	199	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
287	1/11/2020 20:05	TAS1	A	7.58	46.55	399.23	T-V-MNSP1	284	89	-195	190	Rebidding to higher price bands	Rebidding
	2/11/2020 20:05	TAS1	A	381.33	17.88	399.21	T-V-MNSP1	443	251	-192	190	Rebidding to higher price bands	Rebidding
288	3/11/2020 07:20	SA1	A	16.47	-510.73	33.02	V-SA	-420	-136	284	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
289	3/11/2020 08:10	SA1	A	31.73	-1,000.00	32.54	V-SA	-395	-219	176	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding

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290	3/11/2020 09:55	SA1	A	29.91	-1,000.00	34.59	V-SA	-401	-145	256	150	Decrease in SA wind generation due to rebidding to higher price bands and increase in demand	Rebidding/ Change in demand
291	3/11/2020 11:20	SA1	A	13.78	-516.23	40.41	V-SA	-420	-245	175	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
292	4/11/2020 16:05	SA1	A	13.05	43.51	-524.25	V-S-MNSP1	-18	-132	-114	100	Rebidding to lower price bands	Rebidding
293	4/11/2020 16:35	SA1	A	126.92	123.82	-3.10	V-SA	-210	-420	-210	150	Increase in SA wind and solar generation due to rebidding to lower price bands	Rebidding
294	5/11/2020 18:05	TAS1	A	225.70	238.62	12.92	T-V-MNSP1	163	358	195	190	Rebidding to lower price bands	Rebidding
295	7/11/2020 07:10	SA1	A	15.87	-574.33	38.63	V-SA	-420	-229	191	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
296	10/11/2020 22:25	SA1	A	10.45	-514.72	54.44	V-SA	-395	-164	231	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
297	11/11/2020 12:00	SA1	A	84.98	-88.06	-3.08	V-SA	-69	-270	-201	150	Change in interconnector flow due to removal of outage constraint	Constraint action
298	12/11/2020 13:50	SA1	A	15.01	-511.76	36.53	V-SA	-420	-266	154	150	Decrease in SA wind and solar generation due to rebidding to higher price bands and increase in demand	Rebidding/ Change in demand
299	13/11/2020 13:45	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	-33	50	83	80	Circulating flow due to negative price	Loss maximisation
300	13/11/2020 13:50	QLD1	A	4.49	-72.03	20.63	N-Q-MNSP1	50	-35	-85	80	Circulating flow due to negative price	Loss maximisation
301	14/11/2020 08:45	QLD1	A	72.03	0.00	-72.03	N-Q-MNSP1	-49	31	80	80	Circulating flow due to negative price	Loss maximisation
302	15/11/2020 10:55	SA1	A	12.85	-514.11	43.39	V-SA	-395	-59	336	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
303	16/11/2020 09:10	SA1	A	31.78	-1,000.00	32.49	V-SA	-420	-106	314	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
304	16/11/2020 13:10	NSW1	A	9,960.62	47.70	475,192.25	VIC1-NSW1	879	-232	-1,111	500	Change in interconnector flow and generation due to outage constraint	Constraint action
	16/11/2020 13:10	QLD1	A	9,539.38	39.75	379,230.18	NSW1-QLD1	-329	-708	-379	240		
	16/11/2020 13:10	VIC1	A	1,002.95	2.95	-1,000.00	V-SA	-395	24	419	150		
	16/11/2020 13:10	VIC1	A	1,002.95	2.95	-1,000.00	VIC1-NSW1	879	-232	-1,111	500		

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	16/11/2020 13:10	SA1	A	17.00	-50.01	-900.00	V-SA	-395	24	419	150		
305	16/11/2020 13:25	NSW1	A	3,648.58	117,050.85	-32.09	VIC1-NSW1	-373	-922	-549	500	Change in generation due to outage constraint	Constraint action
306	16/11/2020 15:35	VIC1	A	7.24	232.81	28.27	T-V-MNSP1	-265	-459	-194	190	Decrease in demand and rebidding to lower price bands	Demand change / Rebidding
307	19/11/2020 10:45	SA1	A	15.69	-512.36	34.89	V-SA	-395	-182	213	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
308	19/11/2020 15:05	TAS1	A	119.64	132.62	12.98	T-V-MNSP1	-161	51	212	190	Rebidding to lower price bands and more generation availability	Rebidding / Change in generation availability
309	20/11/2020 13:45	NSW1	A	64.14	14.54	78.67	N-Q-MNSP1	35	-46	-81	80	Rebidding to lower price bands	Rebidding
310	20/11/2020 14:10	SA1	A	3.35	100.62	-42.79	V-SA	-394	-150	245	150	Rebidding to lower price bands	Rebidding
	20/11/2020 14:10	VIC1	A	3.58	115.17	-44.71	V-SA	-394	-150	245	150		
	20/11/2020 14:10	VIC1	A	3.58	115.17	-44.71	T-V-MNSP1	-86	-287	-200	190	Rebidding to lower price bands	Rebidding
	20/11/2020 14:10	VIC1	A	3.58	115.17	-44.71	VIC1-NSW1	532	-18	-550	500		
	20/11/2020 14:10	NSW1	A	10.01	264.61	24.04	VIC1-NSW1	532	-18	-550	500		
311	20/11/2020 14:40	QLD1	A	78.15	0.00	-78.15	N-Q-MNSP1	-60	22	81	80	Circulating flow due to negative price	Loss maximisation
	20/11/2020 14:40	QLD1	A	78.15	0.00	-78.15	NSW1-QLD1	-199	-489	-289	240	More cheaper generation availability	Change in generation availability
312	20/11/2020 15:05	NSW1	A	74.97	74.97	0.00	N-Q-MNSP1	-46	37	82	80	Circulating flow due to negative price	Loss maximisation
313	21/11/2020 07:05	QLD1	A	77.01	-1.14	-78.15	N-Q-MNSP1	-49	32	81	80	Circulating flow due to negative price	Loss maximisation
314	21/11/2020 11:40	QLD1	A	85.62	13.59	-72.03	N-Q-MNSP1	-49	32	81	80	Circulating flow due to negative price	Loss maximisation
315	22/11/2020 11:45	SA1	A	11.88	29.47	-320.78	V-SA	-223	-420	-197	150	Change in solar generation availability and change in interconnector flow due to outage constraint	Change in generation availability/ Constraint action
316	22/11/2020 11:50	SA1	A	9.50	-320.78	37.74	V-SA	-420	-181	239	150	Decrease in SA wind generation due to rebidding to higher price bands and change in interconnector flow due to outage constraint	Rebidding/ Constraint action

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317	24/11/2020 12:10	QLD1	A	103.15	18.75	121.90	N-Q-MNSP1	-33	48	81	80	constraint action associated with planned outage of transmission line	Constraint action
318	24/11/2020 12:15	QLD1	A	113.07	121.90	8.84	N-Q-MNSP1	48	-33	-81	80	constraint action associated with planned outage of transmission line	Constraint action
319	26/11/2020 11:35	QLD1	A	3.80	25.71	-72.03	N-Q-MNSP1	-41	42	83	80	Circulating flow due to negative price	Loss maximisation
320	26/11/2020 11:40	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	42	-41	-83	80	Circulating flow due to negative price	Loss maximisation
321	28/11/2020 06:30	QLD1	A	70.99	-72.03	-1.04	N-Q-MNSP1	92	12	-80	80	Circulating flow due to negative price	Loss maximisation
322	28/11/2020 16:50	VIC1	A	78.36	14.14	92.50	V-SA	-395	-141	254	150	Decrease in SA wind and solar generation due to rebidding to higher price bands	Rebidding
323	28/11/2020 16:50	SA1	A	6.84	-510.73	87.40	V-SA	-395	-141	254	150		
324	28/11/2020 20:10	TAS1	A	9.41	399.31	38.34	T-V-MNSP1	51	-145	-196	190	Change in interconnector flow due to constraint	Constraint action
325	28/11/2020 21:15	SA1	A	8.32	-510.98	69.79	V-SA	-395	-182	213	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
326	29/11/2020 00:20	SA1	A	61.32	0.00	61.32	V-SA	-420	-131	289	150	Change in generation availability due to constraint	Constraint action
327	29/11/2020 11:05	VIC1	A	66.67	9.35	-57.32	V-SA	-270	-32	238	150	Change in interconnector flow due to constraint	Constraint action
328	30/11/2020 21:35	TAS1	A	10.76	33.93	399.05	T-V-MNSP1	371	165	-206	190	Rebidding to higher price bands	Rebidding
329	1/12/2020 11:35	SA1	A	27.85	37.24	-1,000.00	V-SA	-198	-420	-222	150	Increase in SA wind due to rebidding to lower price bands and change in solar generation availability	Rebidding/ Change in generation availability
330	1/12/2020 11:40	QLD1	A	62.65	2.58	65.23	N-Q-MNSP1	-41	39	80	80	Rebidding	Rebidding
331	1/12/2020 16:15	NSW1	A	97.91	39.10	3,867.31	N-Q-MNSP1	58	-22	-80	80	Change in interconnector flow due to constraint	Constraint action
332	1/12/2020 16:15	QLD1	A	65.65	45.04	3,001.66	N-Q-MNSP1	58	-22	-80	80	Change in interconnector flow due to constraint	Constraint action
333	1/12/2020 16:20	NSW1	A	73.71	3,867.31	-53.19	N-Q-MNSP1	-22	58	81	80	Circulating flow due to negative price	Loss maximisation
	1/12/2020 16:20	QLD1	A	114.97	3,001.66	-26.34	N-Q-MNSP1	-22	58	81	80	Circulating flow due to negative price	Loss maximisation

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334	1/12/2020 16:40	QLD1	A	4.71	-111.87	30.18	N-Q-MNSP1	49	-31	-80	80	Circulating flow due to negative price	Loss maximisation
335	1/12/2020 16:50	QLD1	A	4.45	25.71	-88.74	N-Q-MNSP1	-57	-138	-81	80	Non-least loss flow due to negative price	Loss maximisation
336	2/12/2020 08:05	TAS1	A	17.14	22.01	399.13	T-V-MNSP1	243	34	-209	190	Rebidding to higher price bands	Rebidding
337	4/12/2020 14:20	QLD1	A	6.48	-999.99	182.51	N-Q-MNSP1	71	-10	-81	80	Circulating flow due to negative price	Loss maximisation
338	4/12/2020 16:05	SA1	A	74.56	72.92	-1.64	V-SA	248	414	165	150	Rebidding to lower price bands	Rebidding
	4/12/2020 16:05	VIC1	A	69.04	66.62	-2.42	V-SA	248	414	165	150		
339	4/12/2020 16:55	QLD1	A	356.60	0.00	-356.60	NSW1-QLD1	-198	150	349	240	Change in interconnector flow due to constraint	Constraint action
340	4/12/2020 17:10	NSW1	A	995.92	-995.92	0.00	N-Q-MNSP1	-102	-18	84	80	Circulating flow due to negative price	Loss maximisation
341	5/12/2020 16:40	SA1	A	544.06	-535.83	8.23	V-SA	-420	-240	180	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
342	6/12/2020 07:55	SA1	A	1,000.00	-1,000.00	0.00	V-SA	-409	-225	184	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
343	6/12/2020 08:15	SA1	A	1,002.64	-1,000.00	2.64	V-SA	-420	-177	243	150	Decrease in SA wind and solar generation due to rebidding to higher price bands	Rebidding
344	6/12/2020 09:25	SA1	A	1,016.19	-1,000.00	16.19	V-SA	-395	-56	339	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
	6/12/2020 09:25	VIC1	A	66.14	-49.70	16.44	V-SA	-395	-56	339	150		
345	6/12/2020 09:35	SA1	A	106.01	7.01	-99.00	V-SA	-137	-420	-283	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
346	6/12/2020 17:50	SA1	A	507.00	-510.73	-3.73	V-SA	-406	-227	179	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
347	7/12/2020 11:20	SA1	A	19.63	-1,000.00	-48.47	V-SA	-310	-2	308	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
348	7/12/2020 15:10	SA1	A	9.56	-285.01	-27.00	V-SA	-310	-135	175	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
349	7/12/2020 18:10	SA1	A	612.94	-612.94	0.00	V-SA	-420	-179	241	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding

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350	11/12/2020 07:45	VIC1	A	1,000.22	0.22	-1,000.00	VIC1-NSW1	-9	-666	-657	500	Change in interconnector flow due to outage constraint	Constraint action
351	11/12/2020 08:05	SA1	A	93.11	3.72	-89.39	V-SA	35	-420	-455	150	Rebidding into lower price bands in SA, higher price bands in VIC	Rebidding
	11/12/2020 08:05	VIC1	A	73.05	3.65	-69.40	V-SA	35	-420	-455	150		
352	11/12/2020 08:40	SA1	A	20.77	-1,000.00	-45.94	V-SA	-395	-152	243	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
353	11/12/2020 09:05	SA1	A	180.23	-19.77	-200.00	V-SA	-182	-420	-238	150	Increase in SA wind generation due to rebidding to lower price bands	Rebidding
354	12/12/2020 06:30	QLD1	A	91.64	19.61	-72.03	N-Q-MNSP1	-33	47	80	80	Circulating flow due to negative price	Loss maximisation
355	12/12/2020 06:40	QLD1	A	72.03	-72.03	0.00	N-Q-MNSP1	51	-30	-81	80	Circulating flow due to negative price	Loss maximisation
356	12/12/2020 07:20	SA1	A	21.94	-589.40	28.15	V-SA	-420	-194	226	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
357	12/12/2020 08:20	SA1	A	574.47	-565.79	8.68	V-SA	-403	-168	236	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
358	12/12/2020 08:35	SA1	A	97.71	6.97	-90.74	V-SA	-128	-420	-292	150	Rebidding into lower price bands in SA, higher price bands in VIC	Rebidding
359	14/12/2020 09:50	SA1	A	16.83	-573.29	36.22	V-SA	-395	-136	259	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
360	14/12/2020 22:05	SA1	A	4.98	55.19	330.27	V-SA	483	303	-181	150	Increase in SA thermal generation due to rebidding into lower price bands, and decrease in VIC thermal generation due to rebidding into higher price bands	Rebidding
	14/12/2020 22:05	VIC1	A	5.36	47.07	299.50	V-SA	483	303	-181	150		
361	15/12/2020 14:35	NSW1	A	4.14	56.36	289.82	VIC1-NSW1	0	-836	-836	500	Change in interconnector flow due to outage constraint	Constraint action
362	16/12/2020 08:15	VIC1	A	6.30	35.51	-188.32	VIC1-NSW1	700	-360	-1,060	500	Rebidding to lower price bands and circulating flow due to negative price for Direct link	Rebidding / Loss maximisation
	16/12/2020 08:15	QLD1	A	44.40	3,126.19	-72.03	N-Q-MNSP1	-65	18	83	80		
	16/12/2020 08:15	NSW1	A	41.90	3,413.24	-83.45	VIC1-NSW1	700	-360	-1,060	500		
	16/12/2020 08:15	NSW1	A	41.90	3,413.24	-83.45	N-Q-MNSP1	-65	18	83	80		
	16/12/2020 08:15	QLD1	A	44.40	3,126.19	-72.03	NSW1-QLD1	-517	-792	-274	240		

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363	16/12/2020 12:50	VIC1	A	174.77	-174.77	0.00	V-SA	-282	-57	224	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
	16/12/2020 12:50	SA1	A	158.48	-158.48	0.00	V-SA	-282	-57	224	150		
364	17/12/2020 13:00	VIC1	A	60.03	57.41	-2.62	T-V-MNSP1	-79	-308	-229	190	Change in interconnector flow due to FCAS constraint	Constraint action
365	17/12/2020 13:40	VIC1	A	6.60	56.88	-318.58	VIC1-NSW1	372	-247	-619	500	Rebidding to lower price bands and change in interconnector flow due to outage constraint	Rebidding / Constraint action
366	17/12/2020 17:25	SA1	A	30.84	-1,000.00	33.52	V-SA	-395	-168	227	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
367	18/12/2020 09:20	VIC1	A	1009.18	9.18	-1,000.00	VIC1-NSW1	387	-990	-1,377	500	Rebidding to lower price bands and change in interconnector flow due to outage constraint	Rebidding / Constraint action
	18/12/2020 09:20	SA1	A	1008.84	8.84	-1,000.00	V-SA	-116	223	339	150		
	18/12/2020 09:20	NSW1	A	4.74	102.91	590.62	VIC1-NSW1	387	-990	-1,377	500		
	18/12/2020 09:20	VIC1	A	1009.18	9.18	-1,000.00	V-SA	-116	223	339	150		
368	18/12/2020 09:40	VIC1	A	4.72	-1,000.00	-174.77	V-SA	249	58	-191	150	Rebidding into higher price bands from solar and wind farms in VIC and SA	Rebidding
	18/12/2020 09:40	SA1	A	4.57	-1,000.00	-179.62	V-SA	249	58	-191	150		
369	18/12/2020 13:15	VIC1	A	19.61	-49.70	-1,024.20	V-SA	-373	47	420	150	Rebidding to lower price bands and change in interconnector flow due to outage constraint	Rebidding / Constraint action
	18/12/2020 13:15	SA1	A	21.87	-43.73	-1,000.00	V-SA	-373	47	420	150		
	18/12/2020 13:15	NSW1	A	14.39	1,703.89	110.73	VIC1-NSW1	158	-1,216	-1,374	500		
	18/12/2020 13:15	VIC1	A	19.61	-49.70	-1,024.20	VIC1-NSW1	158	-1,216	-1,374	500		
370	20/12/2020 10:45	QLD1	A	3.30	35.75	153.90	N-Q-MNSP1	-21	62	83	80	Change in interconnector flow due to constraint	Constraint action
371	20/12/2020 11:10	QLD1	A	3.42	153.89	34.82	N-Q-MNSP1	99	19	-80	80	Change in interconnector flow due to constraint	Constraint action
372	20/12/2020 13:00	QLD1	A	3.50	169.96	37.77	N-Q-MNSP1	89	9	-80	80	Rebidding	Rebidding
373	20/12/2020 16:35	QLD1	A	31.90	-1,000.00	32.36	N-Q-MNSP1	18	-62	-81	80	Circulating flow due to negative price	Loss maximisation
374	22/12/2020 16:10	SA1	A	16.93	-565.04	35.48	V-SA	-420	-130	290	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding

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375	27/12/2020 08:45	SA1	A	533.18	-520.43	12.75	V-SA	-420	-263	157	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding
376	27/12/2020 16:40	SA1	A	528.98	-512.09	16.88	V-SA	-420	-269	151	150	Decrease in SA wind generation due to rebidding to higher price bands	Rebidding