

# **Market Operations**

# Monthly Service Provider Report

This report details monthly information in relation to the Wholesale Information & Trading System (WITS), clearing manager, pricing manager and reconciliation manager functions performed by NZX under contract to the Electricity Authority (Authority).



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#### 1. Introduction

#### 1.1 Purpose

This report details monthly information in relation to the Wholesale Information & Trading System (WITS), clearing manager, pricing manager and reconciliation manager and performed by NZX under contract to the Electricity Authority (Authority).

This report contains core reporting requirements in compliance with Clauses 3.13 and 3.14 of the Electricity Participation Code 2010 and relevant Market Operator Service Provider (MOSP) agreements.

#### 1.2 Contact Details

The following is a list of contact details for further information or questions pertaining to this report:

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# 2. Compliance

#### 2.1 Compliance with Regulations and Code

For this month, to the best of our knowledge, the clearing manager, reconciliation manager and pricing manager, service providers fully complied with the Code and regulations.

WITS breached 3.17 (1) (b) - Software Audit must be delivered within 1 month after 1 March. Was delivered on 28<sup>th</sup> May.

#### 2.2 Operation of the Regulations and Code

For this month, the NZX service providers have not identified any areas of the Code that require addressing.

#### 2.3 Compliance with MOSP Agreements

All provisions of the WITS, clearing manager, reconciliation manager, and pricing manager MOSP agreements have been adhered to during the reporting month.

# 3. Service Level Reporting

#### 3.1 WITS service levels against target

Measure	Target	Achieved this month
WITS availability	>99.72%	100%
WITS file upload availability	>99.72%	100%
Average time to publish NRSS & PRSS	<1 minute	48.0 sec
Average time to publish NRSL & PRSL	<7 minutes	1 min 40 sec
Average time to publish provisional/interim/final prices	<1.5 minutes	6 sec

### 3.2 Clearing manager service levels

#### 3.2.1 Clearing manager service levels against targets

Measure	Target	Achieved this month
No. of wash-up notifications published later than the 5th business day of the month	Zero	0 late publications
No. of hedge settlement agreement amounts published later than the 5th business day of the month	Zero	0 late publications
No. of constrained amounts sent to system operator later than 09:00 hrs on 8th business day of the month	Zero	0 late notifications
Availability achieved during the month	> 99.5%	100%

#### 3.2.2 Clearing manager service level reporting

Measure	Metric	Achieved this month
Number of publication targets missed	No.	0
Number of invoice revisions during the month	No.	0
Date of issue of last invoice during the month	Date	13/05/2019
Number of unplanned outages during the month	No.	0
Number of planned outages during the month	No.	0
Availability achieved during the month	% attained	100%
Number of prudential defaults during the month	No.	2
Scaling applied to generator payments	% attained	0%
Number of data files provided to the Authority	No.	14 constrained amount files; 23 daily prudential summaries.

### 3.3 Pricing manager service levels

### 3.3.1 Pricing manager service levels against targets

Measure	Target	Achieved this month
Interim prices published by 09:20 hrs, provided there is no provisional price situation, and the input information has been received by 07:30 hrs	No more than one late publication in a rolling three month period	0 late publications
On a weekday, provisional prices published before 10:20 hrs, provided the input information has been received by 07:30 hrs	No more than one late publication in a rolling three month period	0 late publications
On a weekend day, provisional prices published before 09:20 hrs, provided the input information has been received by 07:30 hrs	No more than one late publication in a rolling three month period	0 late publication
A price that has been published as provisional will be republished as interim on the same day that a revised data notice is received, provided that a notice is received before 03:00 hrs	No more than one late publication in a rolling three month period	0 late publications
No. of price processing errors in a calendar month	Zero	0 processing errors.
Average time to recommend to the Authority a resolution to a pricing error claim over a rolling 12 month period	Two business days over a rolling 12 month period (in the event of price processing errors)	7 days (includes SO response time)
Months since last disaster recovery test for standalone Scheduling, Pricing and Dispatch (SPD)	No more than six months	1 month (DR test 02 April 2019)
Months since last test of back-up pricing at Transpower	No more than six months	0 month (back up pricing TD 27 March 2019)
No. of unplanned system outages	Zero	0 unplanned system outage
Planned outages coordinated with the system operator	Yes (in the event of an unplanned outage)	Yes
No. breaches of the incident response levels contained in Section 6 of this report	Zero	0
Pricing case files and pricing case file status sent to the Authority on time (as specified in 9.2 of the MOSP agreement)	Yes	Yes

#### 3.3.2 Pricing manager service level reporting

Measure	Metric	Achieved this month
Number of interim or final prices published late in current reporting month	No.	0
Number of interim or final prices published late in last twelve months	No.	3
Average time to recommend to the Authority, a resolution to a price error claim	Days	0.9
Number of price error claims received	No.	1
Disaster recovery and backup obligations	Achieved	Achieved
Total outages:		
- Planned	No. planned	0
- Planned without system operator coordination	No. planned without system operator coordination	0
- Unplanned	No. unplanned	0
Number of data files provided to the Authority late	No.	0

### 3.4 Reconciliation manager service performance

#### 3.4.1 Reconciliation manager service levels against targets

Measure	Target	Achieved this month
Availability between business days 1 and 4, and 9 and 13	99.8%	100%
Availability for other times of the month	99.5%	100%

<sup>\*</sup> See section 2.3

### 3.4.2 Reconciliation manager service level reporting

Measure	Metric	Achieved this month
Number of days late for publication of reconciliation information	0 Days	0 days
System availability between business days 4, 7, 9 and 13 for the month	% attained	100%
System availability outside business days 4, 7, 9 and 13 for the month	% attained	100%
Number of volumes disputes resolved in the month	No.	0
Number of requests to re-run reconciliation as a result of an invoice dispute	No.	0 request
Setup of approved profiles within 1 business day of receiving a notification from the Authority	% attained	100% (none)
Total outages:		
- Planned	No.	0.5 hour
- Unplanned	No.	0 hours

# 4. Systems Update

#### 4.1 Functional specification status

System	Latest revision	Approved by the Authority**
WITS	5.1	•
Clearing manager	20.10.2	•
Pricing manager	4.5	•
Reconciliation manager	9.29	

<sup>\*\*</sup>For this table, and for the remaining tables in this report, ● indicates yes and ● indicates no.

#### 4.2 Backup requirements

System	Daily data backup requirement meet <sup>1</sup>	Weekly data backup requirement meet <sup>2</sup>	Reason for requirement not being met
WITS	•	•	N/A
Clearing manager	•	•	N/A
Pricing manager	•	•	N/A
Reconciliation manager		•	N/A

<sup>&</sup>lt;sup>1</sup> Backup copies of all data and processed data must be taken at least daily and stored in a secure offsite location. Likewise, copies of the latest version of the software must also be kept offsite.

<sup>&</sup>lt;sup>2</sup> At least weekly, a backup copy of the data, processed data and software must be delivered and stored at an offsite location at least 100km from the premises used to provide the regular services.

### 4.3 Disaster recovery and BCP testing

Date	Service	Application/Scope	Status
17 April – 22 May 2018	Reconciliation Manager	Disaster Recovery	Complete
17 April – 22 May 2018	Clearing Manager	Disaster Recovery	Complete
17 April – 22 May 2018	Pricing Manager	Disaster Recovery	Complete
17 April – 22 May 2018	WITS	Disaster Recovery	Complete
13 Nov – 27 Nov 2018	Reconciliation manager	Disaster Recovery	Complete
13 Nov – 27 Nov 2018	Clearing manager	Disaster Recovery	Complete
13 Nov – 27 Nov 2018	Pricing Manager	Disaster Recovery	Complete
13 Nov – 27 Nov 2018	WITS	Disaster Recovery	Complete
16 Apr – 30 Apr 2019	Reconciliation manager	Disaster Recovery	Complete
16 Apr – 30 Apr 2019	Clearing manager	Disaster Recovery	Complete
16 Apr – 30 Apr 2019	Pricing Manager	Disaster Recovery	Complete
16 Apr – 30 Apr 2019	WITS	Disaster Recovery	Complete
4 Nov – 15 Nov 2019	Reconciliation manager	MOSP combined DR	Pending
4 Nov – 15 Nov 2019	Clearing manager	MOSP combined DR	Pending
4 Nov – 15 Nov 2019	Pricing Manager	MOSP combined DR	Pending
4 Nov – 15 Nov 2019	WITS	MOSP combined DR	Pending

### 4.4 Developer access to production systems

This is a separately reported metric

# 5. Incidents

#### 5.1 WITS incident - fault response and resolution times

Priority	Measure	Standard	Achieved this month	Incident Ref #
1	Respond within 15 minutes of receipt of a support request	100%	100%	0
	Work around or resolve within 6 hours	100%	100%	0
	Work around resolved within 20 business days	100%	100%	0
2	Respond within 2 hours of receipt of a support request	100%	100%	0
	Work around or emergency fix within 1 business day	100%	100%	0
	Resolve within 20 business days	100%	100%	0
3	Respond within 1 business day	100%	100%	0
	Resolve within 40 business days	100%	100%	0
4	Acknowledgment of downgrade of severity to level 4 within 1 business day of downgrade	100%	100%	0
	Resolve at the next convenient opportunity as agreed with the Authority	100%	100%	0

#### 5.2 Clearing manager incident – fault response and resolution times

Priority	Measure	Standard	Achieved this month	Incident Ref #
1	Respond within 15 minutes of receipt of a support request, received between 07:30 hrs to 19:30 hrs on a business day	100%	100%	0
	Work around or resolve within 6 hours	100%	100%	0
	Work around resolved within 20 business days	100%	100%	0
2	Respond within 2 hours of receipt of a support request, received between 07:30 hrs to 19:30 hrs on a business day	100%	100%	52599
	Work around or emergency fix within 1 business day	100%	100%	52599
	Resolve within 20 business days	100%	100%	52599
3	Respond within 1 business day	100%	100%	52629
	Resolve within 40 business days	100%	100%	52629
4	Acknowledgment of downgrade of severity to level 4 within 1 business day of downgrade	100%	100%	0

	Resolve at the next convenient opportunity as agreed	100%	100%	0
	with the Authority			

### 5.3 Pricing incident - Fault response and resolution times

Priority	Measure	Standard	Achieved this month	Incident Ref #
1	Respond within 15 minutes of receipt of a support request	100%	100%	0
	Work around or resolve within 6 hours	100%	100%	0
	Work around resolved within 20 business days	100%	100%	0
2	Respond within 2 hours of receipt of a support request	100%	100%	0
	Work around or emergency fix within 1 business day	100%	100%	0
	Resolve within 20 business days	100%	100%	0
3	Respond within 1 business day	100%	100%	0
	Resolve within 40 business days	100%	100%	0
4	Acknowledgment of downgrade of severity to level 4 within 1 business day of downgrade	100%	100%	0
	Resolve at the next convenient opportunity as agreed with the Authority	100%	100%	0

### 5.4 Reconciliation manager incident – Fault response and resolution times

Priority	Measure	Standard	Achieved this month	Incident Ref #
1	Respond within 15 minutes of receipt of a support request, received between 07:30 hrs to 19:30 hrs on a business day	100%	100%	0
	Work around or resolve within 6 hours	100%	100%	0
	Work around resolved within 20 business days	100%	100%	0
2	Respond within 2 hours of receipt of a support request, received between 07:30 hrs to 19.30 hrs on a business day	100%	100%	0
	Work around or emergency fix within 1 business day	100%	100%	0
	Resolve within 20 business days	100%	100%	0
3	Respond within 1 business day	100%	100%	0
	Resolve within 40 business days	100%	100%	0
4	Acknowledgment of downgrade of severity to level 4 within 1 business day of downgrade	100%	100%	0
	Resolve at the next convenient opportunity as agreed with the Authority	100%	100%	0

# 6. Stakeholders

#### 6.1 User group meetings

3 3				
Role	Date	Status		
Reconciliation manger and clearing manager	10 August 2016 (Wellington)	Complete		
WITS and pricing manager	12 October 2016 (Wellington)	Complete		
All roles	23 May 2017 (Auckland)	Complete		
All roles	23 November 2017 (Wellington)	Complete		
WITS	27 June 2018 (Auckland)	Complete		
Combined	8 November 2018 (Wellington)	Complete		
Combined	November 2019 (Wellington)	Pending		

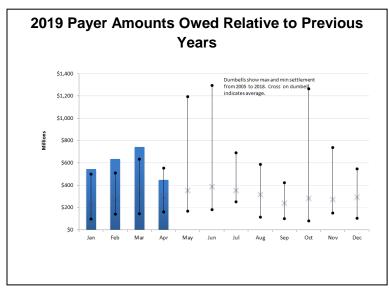
### 6.2 Stakeholder meetings

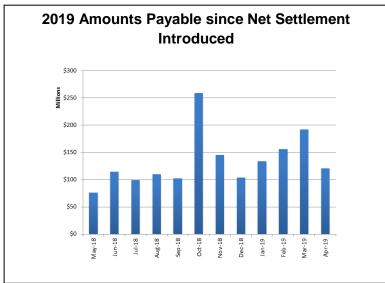
Date	Participant	Status
13/05/2019	Mercury	Completed
15/05/2019	NZ Wind Farms – Site Visit	Completed
21/05/2019	Nova Energy	Completed
24/05/2019	Platinum Power	Completed

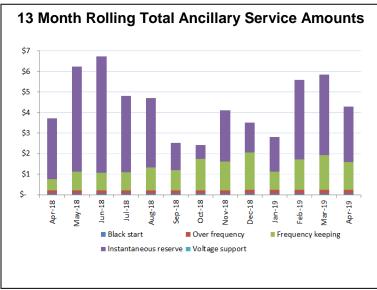
# 7. Clearing and Settlement Market Summary

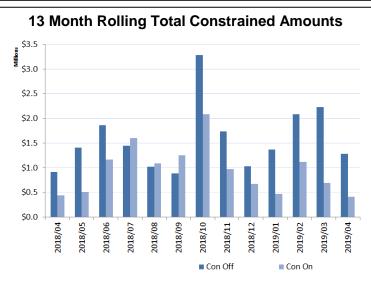
Settlement Data			
Amount			
Settlement month	April 2019		
Settlement date	20 May 2019		
Amounts owed from payers	\$440,858,013.38		
Amounts owed to payees	\$445,665,341.14		
Loss and constraint excess	\$9,629,621.56		
Payer volumes	3,398,736 MWh		
Payee volumes	3,286,866 MWh		

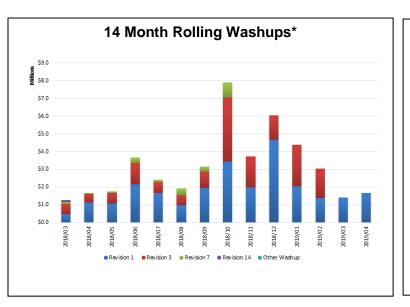
Prudential Data			
	Amount		
As at date	31 May 2019		
Total security held	\$305,959,035.57		
Total assessed exposure	\$128,843,102.84		
No. of security increases	95		
No. of security reductions	3		
Settlements made from prudential	10		











Must Run Dispatch Auction			
Amount			
May 2019			
\$0.01 for all days			
\$0.01 for all days			
1			

This chart shows total wash-ups <u>due to the clearing manager</u> by billing period and by wash-up revision month

Washup Totals			
February 2019 Washups	Value \$		
Revision 1	\$ 26,019,714.54		
Revision 3	\$ 15,591,718.88		
Revision 7	\$ 2,318,849.28		
Revision 14	\$ 100,181.05		
Other Washup	\$ 0		
Total	\$ 44,030,463.75		

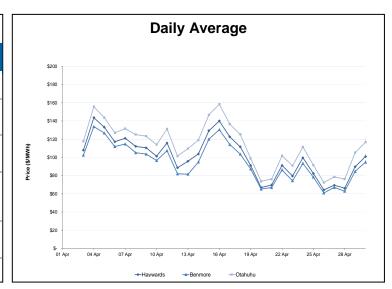
This chart shows total wash-ups <u>due to the clearing manager</u> by billing period and by wash-up revision month

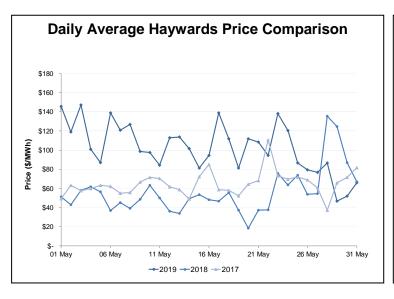
# 8. Pricing Market Summary

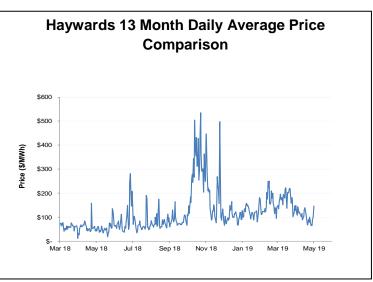
Pricing Statistics			
Amount			
May 2019			
42			
4			
7			
31			
0			

Provisional Price Situations		
	Amount	
Month	May 2019	
No. of infeasibility situations	6	
No. of metering situations	5	
No. of high spring washer price situations	0	
No. of SCADA Situations	0	

Amount
20
20
8
2
0
0







# 9. Reconciliation Market Summary

