

# **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).

June 2022

Created: 01 July 2022



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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:

**IT Operations** 

Service Operations Tim Chadwick Head of Energy Operations

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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, pricing manager and WITS service providers fully complied with the Code and regulations.

# 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 clearing manager and reconciliation manager, MOSP agreements have been adhered to during the reporting month. However, we breached the Pricing Manager MOSP agreement by publishing provisional prices 4 minutes late at 10:26am.

# 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	30 sec
Average time to publish NRSL & PRSL	<7 minutes	129 sec
Average time to publish provisional/interim/final prices	<1.5 minutes	8.5 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	13/06/2022
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.	1
Scaling applied to generator payments	% attained	0%
Number of data files provided to the Authority	No.	21 constrained amount files; 20 daily prudential summaries.

# 3.3 Pricing manager service levels

#### 3.3.1 Pricing manager service levels against targets

Measure	Metric	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 publication
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	1 late publication

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 15:00 hrs	No more than one late publication in a rolling three month period	0 late publication
No. of price processing errors in a calendar month	Zero	0 processing errors.
A pricing error claim must be processed within 1 business day of being received, and if further information is required, must be processed within 1 business day of that further information being received	PEC's held for longer than 1 BD.	0
Months since last disaster recovery test for standalone Scheduling, Pricing and Dispatch (SPD)	No more than six months	1 month (DR test 17 May 2022).
Months since last test of back-up pricing at Transpower	No more than six months	6 months
No. breaches of the incident response levels contained in Section 5 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 Non-Functional Specifications document)	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.	2
Number of price error claims received	No.	0
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%	99.99%

\* 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%
Total outages: - Planned	No.	0 hours
- Unplanned	No.	0 hours

# 4. Systems Update

### 4.1 Functional specification status

System	Latest revision	Approved by the Authority**
WITS	10.0	•
Clearing manager	28.0	•
Pricing manager	6.0	•
Reconciliation manager	14.0	•

\*\*For this table, and for the remaining tables in this report, Indicates yes and

#### 4.2 Backup requirements

System	Daily data backup requirement met <sup>1</sup>	Weekly data backup requirement met <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>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.

Date	Service	Application/Scope	Status
17 Apr – 22 May 2018	Reconciliation Manager	Disaster Recovery	Complete
17 Apr – 22 May 2018	Clearing Manager	Disaster Recovery	Complete
17 Apr – 22 May 2018	Pricing Manager	Disaster Recovery	Complete
17 Apr – 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	Complete
4 Nov – 15 Nov 2019	Clearing manager	MOSP combined DR	Complete
4 Nov – 15 Nov 2019	Pricing Manager	MOSP combined DR	Complete
4 Nov – 15 Nov 2019	WITS	MOSP combined DR	Complete
1 <sup>st</sup> Half 2020	ALL	Disaster Recovery	Waived
16 Jul – 18 Aug 2020	ALL	Disaster Recovery	Complete
16 Jul – 28 Oct 2020	ALL	Disaster Recovery	Complete
16 Mar – 29 Apr 2021	Clearing Manager	Disaster Recovery	Complete
16 Mar – 29 Apr 2021	Pricing Manager	Disaster Recovery	Complete
16 Mar – 29 Apr 2021	WITS	Disaster Recovery	Complete
16 Mar – 4 May 2021	Reconciliation Manager	Disaster Recovery	Complete
16 Oct – 16 Nov 2021	Clearing Manager	Disaster Recovery	Complete
16 Oct – 16 Nov 2021	Pricing Manager	Disaster Recovery	Complete
16 Oct – 16 Nov 2021	WITS	Disaster Recovery	Complete
16 Oct – 16 Nov 2021	Reconciliation Manager	Disaster Recovery	Complete
17 May – 31 May 2022	Clearing Manager	Disaster Recovery	Complete
17 May – 31 May 2022	Pricing Manager	Disaster Recovery	Complete
17 May – 31 May 2022	WITS	Disaster Recovery	Complete
17 May – 31 May 2022	Reconciliation Manager	Disaster Recovery	Complete

# 4.3 Disaster recovery and BCP testing

# 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%	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%	81843
	Resolve within 40 business days	100%	100%	81843
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

# 5.3 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

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	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

Role	Date	Status
Reconciliation	10 August 2016 (Wellington)	Complete
manger and		
clearing manager		
WITS and pricing	12 October 2016 (Wellington)	Complete
manager		
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
Clearing	November 2019 (Wellington)	Complete
WITS	December 8 2020 (Remote)	Complete

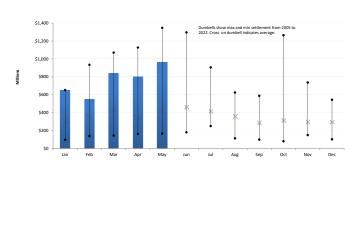
# 6.2 Stakeholder meetings

Date	Participant	Status
16/06/2022	ECOT, RM and CM	Complete
23/06/2022	GENE, RM	Complete
23/06/2022	AMPX, CM	Complete

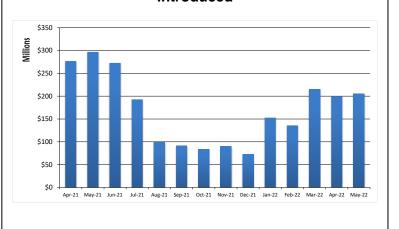
#### **Clearing and Settlement Market Summary** 7.

Settlemen	t Data	Prudential D	ata
	Amount		Amount
Settlement month	May 2022	As at date	30 June 2022
Settlement date	20 June 2022	Total security held	\$545,243,459.24
Amounts owed from payers	\$948,845,671.43	Total assessed exposure	\$209,440,915.96
Amounts owed to payees	\$961,137,473.41	No. of security increases	21
Loss and constraint excess	\$18,977,915.47	No. of security reductions	1
Payer volumes	3,612,262.276 MWh	Settlements made from prudential	7
Payee volumes	3,506,169.444 MWh		

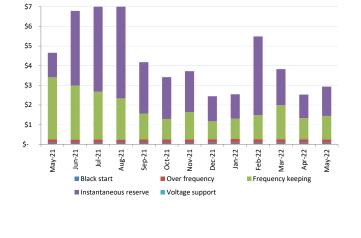
#### 2022 Payer Amounts Owed Relative to Previous Years



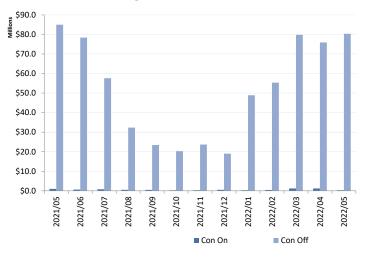
2021 – 2022 Amounts Payable since Net Settlement Introduced

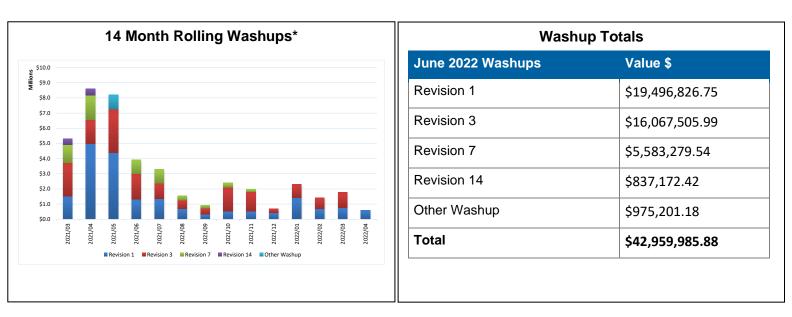






**13 Month Rolling Total Constrained Amounts** 



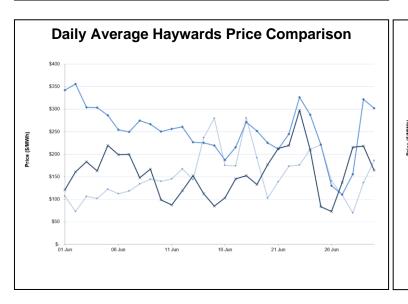


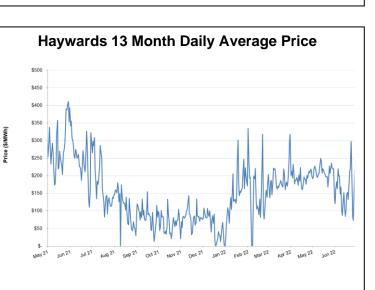
These charts show total wash-ups due to the clearing manager by billing period and by wash-up revision month

# 8. Pricing Market Summary

Pricing Statistics		Provisional Price Si	tuations
	Amount		Amount
Month	June 2022	Month	June 2022
No. of solves	46	No. of infeasibility situations	7
No. of solves not published	8	No. of metering situations	10
No. of solves published as provisional	8	No. of high spring washer price situations	0
No. of solves published as final	30	No. of SCADA Situations	0
No. of pricing error claims	0		

imes	Daily Average
Amount	\$400
21	\$350
7	\$300 \$250
7	5200 S200
0	S100 S50
0	s 01.Jun 04.Jun 07.Jun 10.Jun 13.Jun 16.Jun 19.Jun 22.Jun 25.Jun 28.Jun
	Amount 21 7 7





# 9. Reconciliation Market Summary

