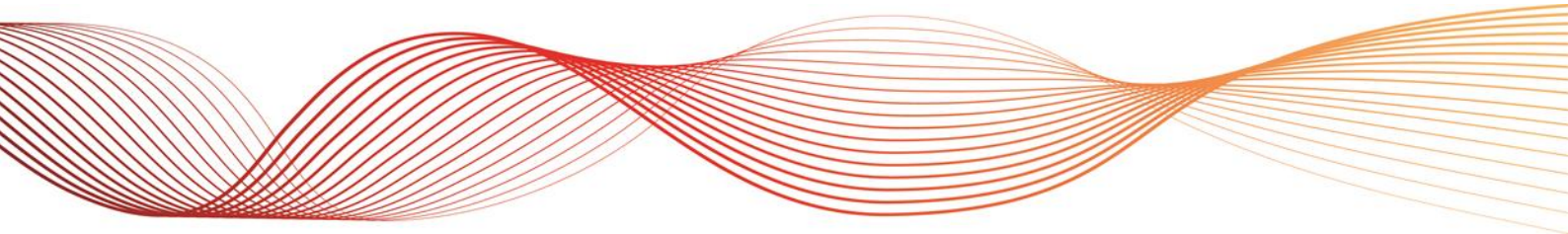




# GUIDE TO THE MARKET SUSPENSION PRICING SCHEDULE

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# IMPORTANT NOTICE

## Purpose

The Australian Energy Market Operator (AEMO) has prepared this document to assist market participants in understanding the calculation and reporting of the market suspension pricing schedule. The schedule is developed and published as required by clause 3.14.5(l)(2) and (3) of the National Electricity Rules (Rules). The Rules and the National Electricity Law (Law) prevail over this document to the extent of any inconsistency.

## Disclaimer

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# CONTENTS

<b>1. CALCULATION</b>	<b>4</b>
<b>2. REPORTING</b>	<b>4</b>
2.1 Structure	4
2.2 Publication Timing and Frequency	5
2.3 File Location and Archiving	7

# FIGURES

Figure 1 Market Suspension Pricing Schedule	5
Figure 2 Market Suspension Pricing Schedule - Timeline	6
Figure 3 Market Suspension Pricing Schedule - Retriggered	6



# GLOSSARY

This document uses terms that have meanings defined in the National Electricity Rules. Please refer to the Rules for definitions of these terms.

The following abbreviations, symbols, and special terms are also used in this document, with the meanings set out below.

TERM	DEFINITION
<b>AEMO</b>	Australian Energy Market Operator Limited
<b>CSV</b>	Comma separated values, a type of flat file format
<b>EMMS</b>	Electricity Market Management System
<b>FCAS</b>	Frequency Control Ancillary Service
<b>NEM</b>	National Electricity Market
<b>NER or Rules</b>	National Electricity Rules

## 1. CALCULATION

Under clause 3.14.5(l) of the NER, AEMO must prepare and publish ‘estimated price schedules’ for use during a market suspension, referred to as Market Suspension Pricing Schedules in this document.

These schedules are calculated based on the ‘estimated price methodology’, developed by AEMO in consultation with stakeholders and published on the AEMO website.

Each Market Suspension Pricing Schedule consists of two sets of 48 trading interval prices for each region and market (energy and the eight FCAS markets). One set applies to weekday day-types, other than public holidays in the majority of the region. The other set applies to weekend day-types and public holidays in the majority of the region.

Each trading interval price in a schedule is calculated as the historical average of prices in the EMMS database for the relevant region, market, day-type and trading interval over the 28 day period to the end of the NEM billing week (end of Saturday).

For the calculation, reporting and application of the Market Suspension Pricing Schedule, time refers to Market Time (Australian Eastern Standard Time) and dates refer to Calendar dates.

## 2. REPORTING

### 2.1 Structure

The Market Suspension Pricing Schedule report files are in AEMO’s standard “.CSV” flat-file format. Each file follows the naming convention and format shown below:

PUBLIC\_MKTSUSP\_PRICES\_<#CASE\_DATE>\_<#REPORT\_DATETIME>\_<#EVENT\_QUEUE\_ID>.CSV

Where:

- #CASE\_DATE is the market date (YYYYMMDD) when the previous report file was created (usually the Sunday before last).



- #REPORT\_DATETIME is the market date & time (YYYYMMDDhhmiss) when this report was created (usually last Sunday around 03:00 hrs).
- #EVENT\_QUEUE\_ID is the unique job identification number for creating the report.

Inside each report file:

- In the first row, the first two cells after 'PUBLIC' show the market date and time respectively when this report was created and published – which matches the #REPORT\_DATETIME in the filename
- In the third row, the data fields “EFFECTIVEDATEFROM” and “EFFECTIVEDATETO”, refer to the start date and end date respectively of the period that the pricing schedules will apply. The period is typically one week but it can be shorter if another report is triggered due to price revision (discussed in section 2.2). The start date is two weeks from the report’s publication date. The end date is the Sunday following the start date.

An extract from a sample Market Suspension Pricing Schedule report file is shown in Figure 1 below.

**Figure 1: Market Suspension Pricing Schedule**

C	NEMP_WORLD	MARKETSUSPENSIONPRICES	AEMO	PUBLIC	25/09/2016	02:59:50	275285074				
I	MKTSUSP_PRICES	DATESAPPLICABLE	1	EFFECTIVEDATEFROM	EFFECTIVEDATETO						
D	MKTSUSP_PRICES	DATESAPPLICABLE	1	10/10/2016 00:00	16/10/2016 23:59						
I	MKTSUSP_PRICES	WEEKLY	1	TRADING_INTERVAL	REGIONID	WD_AVG_ENERGY_RRP	WD_AVG_R6SEC_RRP	.....	WE_AVG_L5MIN_RRP	WE_AVG_LREG_RRP	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	NSW1	38.27	3.92		0.26	10.31	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	QLD1	36.71	3.92		0.26	10.31	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	SA1	57.84	3.92		0.26	26.02	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	TAS1	35.32	4.39		0.15	5.13	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	VIC1	33.44	3.92		0.26	10.31	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	NSW1	35.88	4.45		0.2	6.18	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	QLD1	35.09	4.45		0.2	6.18	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	SA1	53.63	4.45		0.2	21.89	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	TAS1	34.61	10.28		0.15	9.82	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	VIC1	30.19	4.45		0.2	6.18	
.....											
D	MKTSUSP_PRICES	WEEKLY	1	23:30	NSW1	43.4	9.13		0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	QLD1	50.04	9.13		0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	SA1	37.64	9.13		0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	TAS1	29.09	6.6		0.12	5.47	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	VIC1	39.3	9.13		0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	NSW1	42.37	9.1		0.31	11.15	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	QLD1	42.62	9.1		0.31	11.15	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	SA1	49.49	9.1		0.31	11.15	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	TAS1	35	7.25		0.14	5.87	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	VIC1	38.54	9.1		0.31	11.15	
C	END OF REPORT		245								

**Note:**

- The above schedule was published on Sunday 25/09/2016 at 02:59:50.
- The schedule will be effective from Monday 10/10/2016, 14 days after its publication.
- The schedule was calculated based on the data in the previous 28 day period from Sunday 28/08/2016 to Saturday 24/09/2016 inclusive.
- The row and column beginning with “.....” represents rows of data not included, to shorten the length of the report image.
- The content in the file is not sorted. To improve readability, the data may need to be ordered by TRADING\_INTERVAL and REGIONID.

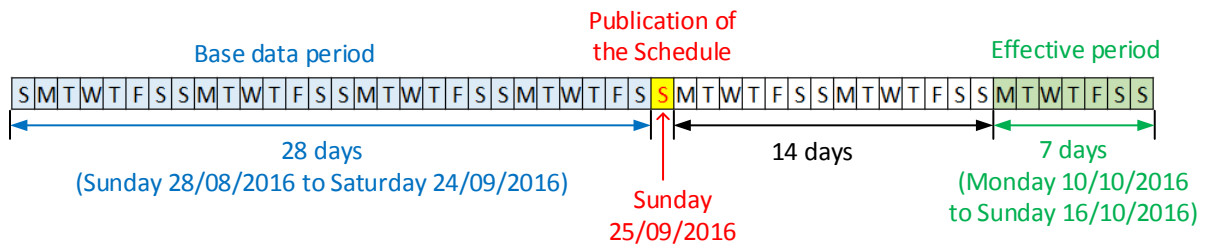
## 2.2 Publication Timing and Frequency

In accordance with NER clause 3.14.5(l)(3), AEMO is required to publish the Market Suspension Pricing Schedule at least 14 days in advance of the first day to which the schedule relates.

An automatic process calculates, creates and publishes a new Market Suspension Pricing Schedule report file at approximately 03:00 hrs every Sunday.

The timeline of the example in Figure 1 is summarised in Figure 2 below.

**Figure 2: Market Suspension Pricing Schedule - Timeline**



Note that the schedule prices are based on historical prices within a window of four NEM billing weeks (28 days), but apply to a conventional week.<sup>1</sup>

If AEMO performs an off-line after-the-event update to any energy or FCAS price in the EMMS database within the 28 day calculation period for any future Market Suspension Pricing Schedule, then AEMO is required to initiate a recalculation of the affected schedules and republish these as report files.

If AEMO has published multiple Market Suspension Pricing Schedule report files effective for the same week, then only the latest report (that is, the report with the latest #REPORT\_DATETIME in the filename) will take precedence for the overlapped period.

An extract from a sample Market Suspension Pricing Schedule report file, retrIGGERED to incorporate price updates is shown in Figure 3 below.

**Figure 3: Market Suspension Pricing Schedule - Retriggered**

C	NEMP_WORLD	MARKETSUSPENSIONPRICES	AEMO	PUBLIC	29/09/2016	17:53:49	275427784			
I	MKTSUSP_PRICES	DATESAPPLICABLE	1	EFFECTIVEDATEFROM	EFFECTIVEDATETO					
D	MKTSUSP_PRICES	DATESAPPLICABLE	1	14/10/2016 00:00	16/10/2016 23:59					
I	MKTSUSP_PRICES	WEEKLY	1	TRADING_INTERVAL	REGIONID	WD_AVG_ENERGY_RRP	WD_AVG_R6SEC_RRP	WE_AVG_LSMIN_RRP	WE_AVG_LREG_RRP	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	NSW1	38.27	3.92	0.26	10.31	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	QLD1	36.71	3.92	0.26	10.31	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	SA1	57.84	3.92	0.26	26.02	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	TAS1	35.32	4.39	0.15	5.13	
D	MKTSUSP_PRICES	WEEKLY	1	00:30	VIC1	33.44	3.92	0.26	10.31	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	NSW1	35.88	4.45	0.2	6.18	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	QLD1	35.09	4.45	0.2	6.18	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	SA1	53.63	4.45	0.2	21.89	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	TAS1	34.61	10.28	0.15	9.82	
D	MKTSUSP_PRICES	WEEKLY	1	01:00	VIC1	30.19	4.45	0.2	6.18	
.....										
D	MKTSUSP_PRICES	WEEKLY	1	23:30	NSW1	43.4	9.13	0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	QLD1	50.04	9.13	0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	SA1	37.64	9.13	0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	TAS1	29.09	6.6	0.12	5.47	
D	MKTSUSP_PRICES	WEEKLY	1	23:30	VIC1	39.3	9.13	0.33	7.41	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	NSW1	42.37	9.1	0.31	11.15	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	QLD1	42.62	9.1	0.31	11.15	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	SA1	49.49	9.1	0.31	11.15	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	TAS1	35	7.25	0.14	5.87	
D	MKTSUSP_PRICES	WEEKLY	1	00:00	VIC1	38.54	9.1	0.31	11.15	
C	END OF REPORT		245							

**Note:**

- The above schedule was published in the same week as the schedule in Figure 1 (i.e. original schedule).
- This schedule was calculated based on the updated data in the previous 28 day period from Sunday 28/08/2016 to Saturday 24/09/2016 inclusive. This is the same 28 day period that the original schedule calculation was based on.
- This schedule was published on Thursday 29/09/2016 at 17:53:49.

<sup>1</sup> A NEM billing week runs from Sunday to Saturday, whereas a conventional week runs from Monday to Sunday.



- This schedule will be effective from Friday 14/10/2016, 14 days after its publication.
- As a result of the publication of this schedule, the original schedule effective period will be shortened from one week (Monday 10/10/2016 to Sunday 16/10/2016) to four days (Monday 10/10/2016 to Thursday 13/10/2016) and this schedule will be effective for the remaining three days of the week (Friday 14/10/2016 to Sunday 16/10/2016)

## 2.3 File Location and Archiving

You can access the report file in the following ways:

- The file is automatically posted onto the AEMO Website in zip file format. To navigate to that location, either:
  - From AEMO's website home page, select "Electricity > Data > Market Management System MMS > Market Suspension Pricing Schedule." On the Market Suspension Pricing Schedule page, there is a link to Market Suspension Pricing Schedules, listed in publication date order.
  - Or, use the direct link: [http://www.nemweb.com.au/REPORTS/CURRENT/Mktsusp\\_Pricing/](http://www.nemweb.com.au/REPORTS/CURRENT/Mktsusp_Pricing/).  
Click on the link for the particular report.
- The file is automatically issued via the Participant Server, to any market participant that requests receipt of these files.

Old Market Suspension Pricing Schedule report files archived from the website can be obtained from AEMO.