



**ROTTNEST IS**

## **Rottnest Island Authority**

# **Network Quality and Reliability of Supply Report**

In accordance with the

Electricity Industry (Network Quality and Reliability Supply) Code 2005

**1 July 2018 – 30 June 2019**

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## **INTRODUCTION**

This report has been produced to meet the requirements of the Electricity Industry (Network Quality and Reliability Supply) Code 2005.

During the reporting year, the Rottnest Island Authority has reinstated the electrical supply to the Waste Water Treatment Plant through the installation of a 630kVA transformer, Ring Main Unit and LV distribution. A third 1000kVA distribution transformer and Ring Main Unit was installed at the powerhouse in an effort to improve HV redundancy. A number of 11kV power poles across the causeway have been replaced as part of the power pole replacement programme. There were no other significant electrical works on the Island.

The Rottnest Island Authority continues to maintain and periodically review its “Electrical License” requirements to ensure the power generation and the network system and its customers’ electrical installation and apparatus are safe for use by employees, customers and the public.

### **Major Event Days**

No major event days for the reporting period.

**REPORTS – code Schedule 1 – Information to be published**

**Clause 4 and 10**

***Clause 4(a) Number of breaches of each provision of the Code:***

Quality of Supply	2015/2016	2016/2017	20017/2018	2018/2019
Voltage Fluctuations	0	2	2	3
Harmonics	0	0	0	0

***Clause 4(b) Remedial action taken for each provision***

Voltage Fluctuations

Location	Action Taken
<ul style="list-style-type: none"><li>Waste Water Treatment Plant<ul style="list-style-type: none"><li>Abbot Street</li><li>Parker Point LV DB</li></ul></li></ul>	Asset replacement proposed In Progress.

Harmonics

Location	Action Taken
N/A	Nil

**Clause 5 – Significant Interruptions to small use customers**

***Clause 5(a)***

Number of premises that experiences interruption greater than 12 hours continuous = **0**

*Number of interruptions and duration, where duration is greater than 12 hours:*

DATE	CUSTOMERS	DURATION (MINS)	COMMENT
N/A	Nil	Nil	Nil

***Clause 5(b)***

Number of premises that experienced more than 16 interruptions = **0**

**Clause 6 and 10 – Total number of complaints received**

2015/2016	2016/2017	2017/2018	2018/2019
0	1	0	0

**Clause 7 and 10 – Number of complaints in each discrete are:**

DISCRETE AREA	2015/16	2016/2017	2017/2018	2018/2019
Rottnest Island	0	1	0	0

**Clause 8 and 10 – Total amount spent addressing complaints**

2015/2016	2016/2017	2017/2018	2018/2019
\$0.00	\$0.00	\$0.00	\$0.00

**Clause 9 and 10 – Payments to customers for failure to meet certain Standards**

The number and total payments made to customer for failure to give required notice of interruption:

	2015/2016	2016/2017	2017/2018	2018/2019
Number	0	0	0	0
Cost	0	0	0	0

The number and total payments made to customers for supply interruptions exceeding 12 hours:

	2015/2016	2016/2017	2017/2018	2018/2019
Number	0	0	0	0
Cost	0	0	0	0

**Clause 11, 12 and 13(a) – Average Length of interruption of Supply to Customer Premises in Minutes (CADI)**

Discrete Area	2015/2016	2016/2017	2017/2018	2018/2019	AVERAGE
Rottnest Island	92.77	67.55	18.66	79.54	64.63

**EFFECT of MAJOR EVENT DAYS**

No major event days for the reporting period.

**Clause 11, 12 and 13(b) – Average number of interruptions of Supply to Customer Premises (SAIFI)**

Discrete Area	2015/2016	2016/2017	2017/2018	2018/2019	AVERAGE
Rottnest Island	3.70	15.94	3.14	6.53	7.33

**Clause 11, 12 and 13(c) – Average Percentage of Time that electricity has been supplied to Customer Premises**

Discrete Area	2015/2016	2016/2017	2017/2018	2018/2019	AVERAGE
Rottnest Island	98.93	99.3	99.71	99.73	99.42

**Clause 11, 12 and 12(d) – Average Total length of all interruptions of supply to customer premises in Minutes (SAIDI)**

Discrete Area	2015/2016	2016/2017	2017/2018	2018/2019	AVERAGE
Rottnest Island	343.09	1077.14	58.52	519.82	499.64

**Clause 14 (a, b, c) and 15 – Percentile values for each customer premise and a graph**

Information not provided due to the minimal number of customers and no perceived benefit of this information.