NON-MARKET ANCILLARY SERVICES ANNUAL SUMMARY

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AEMO
AUSTRALIAN ENERGY MARKET OPERATOR
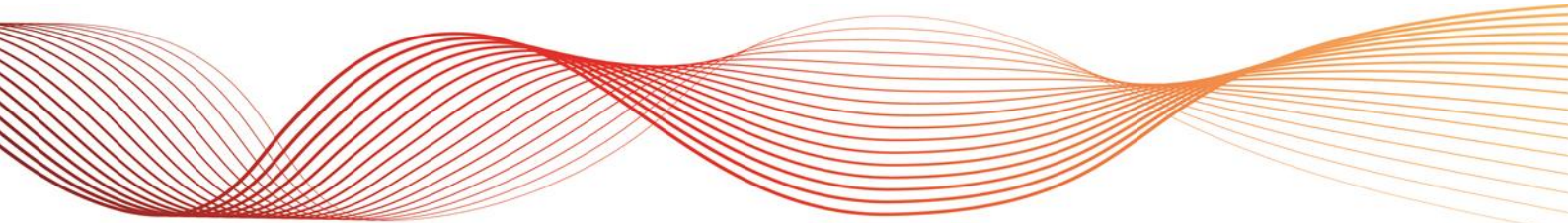
ABBREVIATIONS

Abbreviation	Term
AEMO	Australian Energy Market Operator
NLAS	Network Loading Ancillary Service
NSCAS	Network Support and Control Ancillary Services
TNSP	Transmission Network Service Provider
TOSAS	Transient and Oscillatory Stability Ancillary Service
VCAS	Voltage Control Ancillary Service

IMPORTANT NOTICE

Purpose

The purpose of this publication is to provide information about Non-Market Ancillary Services acquired in the National Electricity Market for financial year 2014-15.

This document has been prepared by AEMO in accordance with clause 3.13.5 (b) & (c) of the National Electricity Rules (Rules), and has effect only for the purposes set out in the Rules.

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1. INTRODUCTION

Network Support and Control Ancillary Services (NSCAS) are non-market ancillary services that may be procured by AEMO or Transmission Network Service Providers (TNSPs) to maintain power system security and reliability, and to maintain or increase the power transfer capability of the transmission network. [1]

There are three types of NSCAS

- Voltage control ancillary service (VCAS)

- Network loading ancillary service (NLAS)

- Transient and oscillatory stability ancillary service (TOSAS)

AEMO is required, under clause 3.13.5 of the National Electricity Rules (Rules), to publish annually the quantities and types of NSCAS covered under existing ancillary service agreements. This only covers services acquired by AEMO to meet an 'NSCAS gap' in accordance with Rules requirements. AEMO does not report on NSCAS acquired by TNSPs.

This report includes details of:

- Quantities and types of NSCAS covered under existing ancillary services agreement.

- Actual costs and quantities relating to each facility contracted under ancillary services agreements for NSCAS.

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[1] AEMO: http://www.aemo.com.au/Electricity/Market-Operations/Ancillary-Services/Network-Support-and-Control-Ancillary-Services-NSCAS-Description-and-Quantity-Procedure

2. VOLTAGE CONTROL ANCILLARY SERVICE

In the financial year 2014-15, AEMO acquired Voltage Control Ancillary Service (VCAS) under two ancillary services agreements:

- Agreement for up to 800Mvar of reactive power absorption capability from shunt reactors at Murray Switching Station and Yass Substation and transmission lines south of Sydney, at a fixed monthly charge.

- Agreement for reactive power generation and absorption capability provided by up to 28 synchronous condensers at Tumut and Murray Power Stations, at a cost calculated by reference to the amount of Mvar requested and the period of time enabled.

Table 1   Quantity and cost of VCAS for 2014-15

Facility	Quantity procured	Actual cost 2014-15
Murray Switching Station and Yass Substation shunt reactors and transmission lines south of Sydney	Up to 800 Mvar absorbing	$9,896,697.60
Tumut and Murray Power Stations	Up to 225 Mvar absorbing	$134,493.81

3. OTHER NSCAS

AEMO did not procure any NLAS or TOSAS for the 2014/15 year.