

Lismore 250 Mvar SVC



TMT&D SVC Projects in Australia



250 Mvar (TCR+FC type)
SVC at Lismore
Substation

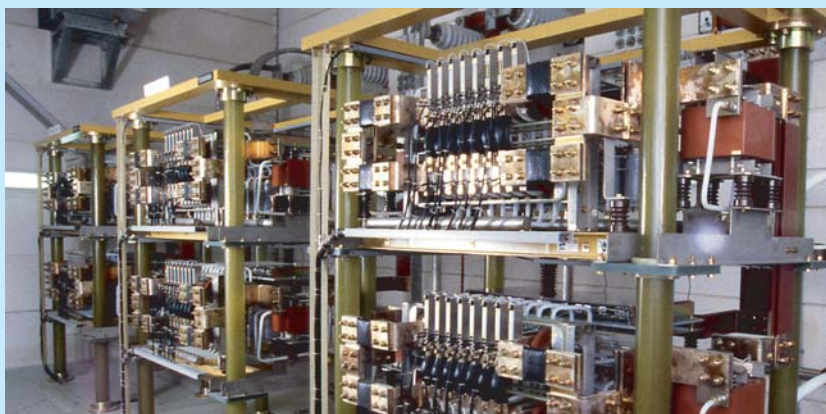
■ **Ratings**

250 Mvar (-100 to +150 Mvar)

■ **Commissioned**

December 1999

Lismore 250 Mvar SVC



To improve the supply reliability of a rapidly growing load in a relatively weak part of a network in northern New South Wales, Australia, a large SVC was installed at Lismore Substation, owned by Transgrid.

The Lismore SVC design is based on a proven, simple concept, including the world's largest Thyristor-Controlled Reactor (TCR) rated 250 Mvar. This provides the controllable reactive power, and the applied Direct Light Triggered Thyristor (LTT) Valve delivers high reliability.

The 250 Mvar SVC (-100/+150 Mvar) was commissioned in 1999, and has contributed to enhanced power system operation in the northern New South Wales area.

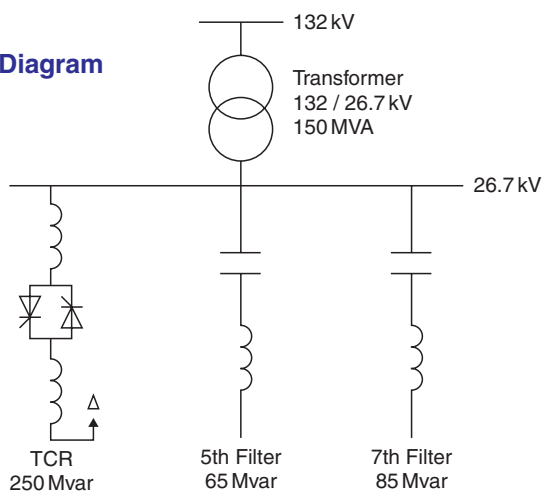
Photos:

Front page; 250 Mvar Lismore SVC

Left top; World's largest 250 Mvar TCR Reactors

Left Middle; The compact Light Triggered Thyristor (LTT) Valve

Lismore Single Line Diagram



Project Name	Lismore 250 Mvar SVC
Commissioned	December 1999
Location	Transgrid Lismore Substation New South Wales, Australia
Rating	250 Mvar TCR and 150 Mvar Fixed Capacitors
AC System Voltage	132 kV-ac
Valve Configuration	Water Cooled, Air insulated anti-parallel valve 16s2ap/valve 6 arms
s/arm 4 modules/arm	12 arms
s: series, ap: anti parallel	
Triggering	Direct light triggering
Ratings of Thyristor	6 kV - 2500 A LTT (4 inches)
Number of Thyristors	96
Controller	32 bit digital controller Power system damping control Gain supervision control DC current compensation control

TMT&D

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