

Static Var Compensators for Transmission Systems

The control of reactive power permits better use of transmission plant and improves the quality of supply. These advantages cannot be realized fully unless the control is exercised rapidly, i.e. by using a static var compensator (SVC) which has a high speed of response.

Examples of three projects undertaken recently by GEC are discussed to highlight the basic features of SVCs in a. c. transmission applications. They include:

- an 80 Mvar thyristor controlled reactor (TCR) scheme for voltage control and rapid reactive power support at the receiving end of 200 kV lines in Paraguay,
- a **2 x 150 Mvar saturated reactor (SR) scheme for the normal and dynamic overvoltage control** at the British terminal of the 2000 MW \pm 270 kV h.v.d.c. submarine link, between England and France, and
- a multi-compensated 220 kV, 660 km line in Western Australia employing three **55 Mvar SR compensators** for enhancing power-transmission capability and for load rejection overvoltage control.

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