

Contrôle des Transits de Puissance par l'Utilisation d'un UPFC Connecté à une Ligne de Transmission

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Abstract : The FACTS technologies involve conversion and switching of power electronics in the range of a few tens to few hundred megawatts. The new state devices such as MOSFETs, IGBTs, GTOs and also other suitable power electronic devices are used as controlled switches in FACTS devices. The universal and most flexible FACTS device is the Unified Power Flow Controller "UPFC", this device is the combination of three compensators characteristic; i.e., impedance, voltage magnitude and phase angle, that are able to produce a more complete compensation [1].

Keywords : FACTS, MOSFETs, IGBTs, GTOs, UPFC