

# Application of Phase Shifting Transformers for a secure and efficient operation of the interconnection corridors

Paola Bressetti, *Member, IEEE*, Marino Sforna, Vittorio Allegranza, Daniele Canever, and Riccardo Vailati

**Abstract** – In the liberalized energy markets, TSOs are more and more required to have a better control of network power flows in order to maintain a secure and efficient operation of the system. The paper describes the Phase Shifting Transformer (PST) model implemented in the CEST programs and the analyses performed, on behalf of the Italian ISO (GRTN), for assessing the installation of PSTs on the Italian East border interconnection. In this case, the control action of the PSTs aims at mitigating uncontrolled “parallel flows” and unbalanced sharing of power among circuits. Three different solutions with increasing number of PSTs were identified and simulated. Furthermore, a pre-contingency bucking angle is calculated for the PST installed in the weakest circuit in order to alleviate the post-contingency overload and to avoid the untimely intervention of line protections.

**Index Terms** – EHV transmission lines, power system planning, interconnected power systems, phase shifter transformers

## I. INTRODUCTION

IN the liberalized energy markets the fast growth of wholesale electricity trading is strongly increasing the request for transmission services. This phenomenon is particularly stressed in the UCTE system where the increase of Cross Border Exchanges among national systems, stemming from the uneven allocation of generation technologies, is saturating several interconnections and is giving rise to remarkable “transit flows”.

Indeed, these Cross Border Exchanges often affect the transmission systems of countries not directly involved in the transaction. These effects can be explained either by the geographic position of the indirectly involved systems or by the physical laws governing the flow of electricity in meshed systems. Actually, the exchange programs between two neighbouring areas equal the power flow on the corresponding interconnection corridor only for the ideal case of a radial interconnection. As shown in Fig. 1, for widely interconnected

network, like the UCTE system, the power flow between two neighbouring areas A and B consists of the superimposition of two components: a Direct Flow (DF) from A to B and a Parallel Flow (PF) crossing the neighbouring system C not involved in the transaction [1]. The entity of the term PF depends on the topology and on the operational conditions of the network. The great concern in “transit flows” is related to the calculation of the additional costs sustained by the TSOs for hosting transits, as well as the assessment of their effects on the system security [2].

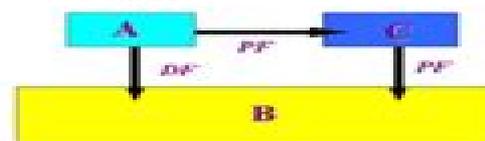


Fig. 1. The parallel flow affecting the system C as a consequence of a transaction between A and B.

In the UCTE system, the full exploitation of the interconnection capacities by means of scheduled exchange programs and the superimposed unexpected transit flows often force the TSOs to operate their systems below the security levels. Indeed, in 2002, several European TSOs, namely Belgium, Switzerland, Austria and Italy, reported remarkable unidentified flows on their systems having a severe impact on security issues [3].

Furthermore, in some cases, the unbalanced sharing of power among circuits belonging to the same interconnection corridor may result in a non-optimal exploitation of the real capabilities of lines. Especially in outage condition, one circuit may reach full load while further capability remains on the others.

Under the above conditions, for maintaining a secure, efficient and economical operation of the interconnections, the TSOs are required to better control and manage network power flows [4]. Specially designed power system devices can control the flow of active and/or reactive power in interconnected power systems alleviating line overloads and changing parallel-line load sharing. Traditionally, the Phase Shifting Transformer (PST) was the only device able to

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