

# 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 CESTI 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

## 1. 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].

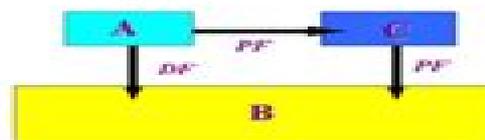


Fig. 1. The parallel flow affecting the system C as a consequence of a transaction between A and B.

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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## **Table of Contents Application Note Testing Phase Shifting Transformers**

1. Understanding the eBook Application Note Testing Phase Shifting Transformers
  - The Rise of Digital Reading Application Note Testing Phase Shifting Transformers
  - Advantages of eBooks Over Traditional Books
2. Identifying Application Note Testing Phase Shifting Transformers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Application Note Testing Phase Shifting Transformers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Application Note Testing Phase Shifting Transformers
  - Personalized Recommendations
  - Application Note Testing Phase Shifting Transformers User Reviews and Ratings
  - Application Note Testing Phase Shifting Transformers and Bestseller Lists

5. Accessing Application Note Testing Phase Shifting Transformers Free and Paid eBooks
  - Application Note Testing Phase Shifting Transformers Public Domain eBooks
  - Application Note Testing Phase Shifting Transformers eBook Subscription Services
  - Application Note Testing Phase Shifting Transformers Budget-Friendly Options
6. Navigating Application Note Testing Phase Shifting Transformers eBook Formats
  - ePub, PDF, MOBI, and More
  - Application Note Testing Phase Shifting Transformers Compatibility with Devices
  - Application Note Testing Phase Shifting Transformers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Application Note Testing Phase Shifting Transformers
  - Highlighting and Note-Taking Application Note Testing Phase Shifting Transformers
  - Interactive Elements Application Note Testing Phase Shifting Transformers
8. Staying Engaged with Application Note Testing Phase Shifting Transformers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Application Note Testing Phase Shifting Transformers
9. Balancing eBooks and Physical Books Application Note Testing Phase Shifting Transformers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Application Note Testing Phase Shifting Transformers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Application Note Testing Phase Shifting Transformers
  - Setting Reading Goals Application Note Testing Phase Shifting Transformers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Application Note Testing Phase Shifting Transformers
  - Fact-Checking eBook Content of Application Note Testing Phase Shifting Transformers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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