

ASSESSING THE IMPACT OF DUYEN HAI THERMAL POWER SYSTEM  
CENTER ON THE STABILITY OF THE ELECTRICAL  
POWER SYSTEM OF VIETNAM

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**Abstract:**

Duyen Hai thermal power center has a gross installed capacity of 4490MW, connected to the power system of Vietnam through 220kV and 500kV voltage levels. Therefore, the operating mode of the plant has a strong influence on the stability of the power system. This paper presents the results of calculations to assess the effects of the plant and proposes solutions to improve the Vietnam power system stability. Operating mode of the plant may alter the stable reserve ratio of the whole system. In operating process, it is necessary to pay attention to Duyen Hai thermal power center to generate high capacity in the peak mode of load in the Southern region. After putting the project into operation, it should be calculated to install compensation station SVC at Phu Lam bus.

*Key words: Duyen Hai thermal power center; The operating mode; Voltage collapse; Regional stable operation; Stability.*