









Series converter when operating as Static Synchronous Series Capacitor controlling injected voltage, while keeping injected voltage in quadrature with the current.

The mode of operation the reference voltage and reference power values can be changed by UPFC GUI block.

#### CONCLUSION:-

In his project we compare the transient stability of a two area power system using different types of facts devices like UPFC and TCSC. Here we can conclude that the performance of the UPFC is better for load flow control and voltage control which improves the power system voltage stability when compared to the other FACTS devices like TCSC which improves transient stability and dynamic stability is same in both the FACTS devices. Hence we consider the TCSC for better transient stability of a power system but in other cases we consider UPFC FACTS device for more stability of the power system. Here we compared the facts device with the series and shunt facts devices and hence found out that TCSC has maximum efficiency I the transient stability in a power system. By using this method we can also find the voltage stability of a power system.

Reference:-

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