

## Reactive Power And Compensation

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The main advantage of SVCs over simple mechanically switched compensation schemes is their near-instantaneous response to changes in the system voltage. For this reason they are often operated at close to their zero-point in order to maximize the reactive power correction they can rapidly provide when required.

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Reactive power compensation is defined as the management of reactive power to improve the performance of alternating-current (ac) power systems. In general, the problem of reactive power compensation is related to load and voltage support.

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Power Factor Improvement Reactive Power Compensation: Power Factor is nothing but the ratio of real power to apparent power. It is unit less quantity. Sometime for sinusoidal wave the power factor is defined as the cosine of angle between voltage and current.

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The area of reactive power compensation is gaining increasing importance worldwide. If suitably designed, it is capable of improving voltage quality significantly, meaning that losses in equipment and power systems are reduced, the permissible loading of equipment can be increased, and the over-all stability of system operation improved.

[Why is reactive power compensation needed in a power ...](#)

This reactive power should be properly compensated otherwise, the ratio of actual power consumed by the load, to the total power i.e. vector sum of active and reactive power, of the system becomes quite less. This ratio is alternatively known as the electrical power factor, and a lower ratio indicates a poor power factor of the system.

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A technique is known as reactive compensation is used to reduce apparent power flow to a load by reducing reactive power supplied from transmission lines and providing it locally. For example, to compensate an inductive load, a shunt capacitor is installed close to the load itself.

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Shunt compensation of reactive power can be employed either at load level, substation level or at transmission level. Compensation should be provided as close as possible to the consumption point to avoid having to distribute this power in the other part of network. Location is primarily determined by the reason for compensation. Reactive power

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Reactive power compensation in a power system is of two types—shunt and series. Shunt compensation can be installed near the load, in a distribution substation, along the distribution feeder, or in a transmission substation. Each application has different purposes. Shunt reactive compensation can be inductive or capacitive.

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Reactive power generated by the generators and other sources is absorbed by some of the loads which are given below. It causes losses in these devices; hence compensation devices are necessary to be placed at these loads. • Induction motor (Pumps and Fans)

### ~~The Need for Reactive Power Compensation~~

Reactive power, or VAR, is not really power at all but represents the product of volts and amperes that are out-of-phase with each other. Reactive power is the portion of electricity that helps establish and sustain the electric and magnetic fields required by alternating current equipment.

### ~~Reactive Power Compensation of Reactive Components~~

Reactive power compensation is defined as the management of reactive power to improve the performance of ac systems.....

### ~~Analysis of Reactive Power in Power System—Electrical ...~~

With a reactive power compensation system with power capacitors directly connected to the low voltage network and close to the power consumer, transmission facilities can be relieved as the reactive power is no longer supplied from the network but provided by the capacitors (Figure 2).

### ~~Reactive power compensation—SlideShare~~

Hence, a good practice is to provide reactive power to the load locally through capacitor banks, etc. This is called reactive power compensation. The capacitor supplies leading current to the load as well as reactive power, thus lessening the burden of the same from the electric supply. 6k views · View 4 Upvoters

### ~~Reactive Power and Compensation Solution Basics~~

Reactive power compensation is an important issue in electric power systems involving operational, economic, and quality of service aspects. Consumer loads (residential, commercial, industrial, service sector, etc.) impose active and reactive power demands.

### ~~Importance of Reactive Power in Power Generation and ...~~

INTRODUCTION □ Reactive power (VAR) compensation is defined as the management of reactive power to improve the performance of ac systems.

### ~~Reactive Power Compensation—Electrical idea~~

'Shunt compensation' controls reactive power and 'Series compensation' controls active power. Shunt compensation may be a simple capacitor in the shunt of the transmission line or any Shunt FACTS devices. Series compensation may be a simple capacitor in series with the transmission line or any series of FACTS devices.

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