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08:50 No21/05/2018 According to the National Electricity Transmission Corporation (EVNNPT), this is one of the six shunt reactors of the project to equip shunt reactors on 500 kV grid invested EVNNPT with the installation of the size of 6 shunt reactors with a capacity of 128 MVar each, and appropriate equipment connected to the 500 kV bar system per 500 kV TS: Kau Bong, Song Ma, Di Lin, Dak Nong, Playku 2 and Wung Ang. After powering and successfully commissioning, the SHU591 Vũng Ang 500 kV TS shunted into play the efficiency of the project as the bus-bar voltage at 500 kV Vung Ang TS is always stable in the permitted voltage range. Previously, the energy reporting company 3, in turn, equipped 500 kV - 128 MVar shunts at transformer substations 500 kV Di Linh, Pleiku 2 and Dak Nong. VietnamEnergy.vn This article needs additional quotes to verify. Please help improve this article by adding quotes to reliable sources. Non-sources of materials can be challenged and removed. Find sources: Reactor switchyard - News newspaper book scientist JSTOR (February 2014) (Learn how and when to remove this template message) The power grid system has switch reactors installed at substations to help stabilize the grid. For power lines, the space between the above-ground line and the ground forms a capacitor parallel to the transmission line, resulting in an increase in voltage as the distance increases. To compensate for the capacity impact of the transmission line and to regulate the voltage and reactive power of the power grid, the reactors are connected either at the terminals or in the middle, thereby improving the voltage profile of the transmission line. In large systems with large generators connected in parallel, it may be necessary to use a in-line reactor to prevent excessive current flow during short circuits; this protects the conductors of the power line and the switching apparatus from damage due to the high currents and forces produced during the short circuit. The shunt reactor is connected in parallel with the power line or other load. A number of reactors are connected between the load and the source. The Bus Reactor Is an Air Core Inductor, or oil-filled inductor, connected between two buses or two sections of the same bus to limit the transit voltage on any bus. It is installed in the bus to maintain systemic voltage when the load on the bus changes. This adds induction to the system to compensate for the capacity of the line. Line reactors line the reactor is placed in a line at the point of use or immediately after the transformer to maintain a stable gain for the user. When the line is disconnected from the system, the linear reactor also disconnects from the system. Linear reactors used to offset the power of the line, reduce voltage and limit faulty currents, especially in the case of underground power lines. The bus reactor and the linear reactor are interchangeable as long as they are designed for the same voltage, which depends on the physical layout of the substation and the configuration of the bus. Shunt reactors shunt reactors are used in energy systems to counteract the effect of a line of parasitic capacities, thereby stabilizing the voltage of the system within acceptable limits. The usefulness of shunt reactors to control voltage on lightly congested power lines was considered in 1926 in an article presented by AIEE's Edith Clarke. For short lines, we can basically ignore the effect of capac causation in terms of voltage regulation, but medium and long lines can have voltages on their receiving end much higher than sending the end, thus creating issues such as excessive fluxing power transformers and more accentuating linear insulators. In light load conditions, the line produces more VAR, resulting in getting the end of the voltage higher than sending the end of the voltage. In order to consume excess VAR when the system is easily loaded, an inductor is added to the system. Controlled bypass reactors See also: The variable shunt of the reactor and the flexible AC transmission system controlled by the shunt reactor (CSR) is a variable induction, smoothly regulated by the magnetic displacement of the ferromagnetic elements of the magnetic circuit. The magnetic system of one phase of CSR consists of two nuclei. Each core is equipped with control and winding power. In the case of a controlled dc source connection to the control winding, the flow shift increases and is directed in different directions in adjacent cores. This has resulted in the saturation of CSR nuclei at the corresponding half-year of the current period. The saturation of the nucleus leads to the initiation and increase of current in the windings of the power due to non-linear characteristics of the magnetic nucleus. Changing the shift of the current value leads to a change in the current winding of power, which ensures a stepless change in voltage levels at the CSO connection point, as well as the value of the reactive energy consumed by the reactor. The series reactors are used as current limiting reactors to increase the impedance of the system. They are also used for neutral grounding. Such reactors are also used to limit the starting currents of synchronous electric motors and to compensate for jet power in order to increase the capacity of power lines. Inquiries - Donald G. Fink, H. Weed Beatty, Standard Handbook for Electrical Engineers Eleventh Edition, McGraw Hill, 1978, ISBN 0-07-020974-X, pages 14-36 and extracted from A linear reactor (also called an electric reactor or throttle) is a variable frequency drive (VFD) accessory that consists of a coil of wire that forms a magnetic field as the current flows through it. This magnetic field limits the rate of current growth, thereby reducing harmonics and protecting the drive from jumps and jumps of the power system. The types of electrical or linear reactor reactors have many roles to play in the electrical power system. Reactors are usually classified according to their applications. Such as: From a construction point of view, reactors are classified as: Air Core ReactorGapped Iron Core ReactorFrom operating point, reactors classified as:Variable ReactorFixed Reactor.In addition, the reactor can also be classified as: Indoor Type orOutdoor Type reactor. The Shunt reactorThis reactor is usually connected parallel to the system. The normal purpose of the shunt reactor is to compensate the capacity component of the current in the system. This means that this reactor is mainly used to absorb VAR (Reactive Power), generated due to the capacitive effect of the system. At a substation, shunt reactors are usually connected between the line and the ground. THE VAR absorbed by the reactor can be fixed or variable depending on the system requirement. The variation of VAR in the reactor can be achieved by using phase control thyristors or by magnetized the iron core. This change can also be achieved offline or online crane shifts associated with the reactor. The shunt reactor can be either one phase or three phases depending on the configuration of the power system. The shunt reactor can be either an air-core or a gapped iron core depending on its design characteristics. It can also magnetic screen or without a magnetic shield. Shunt reactors can also be developed with additional winding loading to supply auxiliary energy to the system. The Ovlayo-current reactor series is a series of reactors. A series of reactors are connected to the system in a series. They are commonly used to limit the current of a malfunction in the system or to facilitate the proper distribution of the load in a parallel power grid. When a number of reactors are connected to an alternator, we call it the Generator Line reactor. This is done in order to minimize stress at three-phase short circuit. The series reactor can also be joined in a row in a feeder or electric bead to minimize the effect of short circuit malfunctions in other parts of the system. As the short-circuit effect in this part of the system becomes limited, the short circuit current can withstand the rating of the equipment and conductors of this part of the system may be smaller. This makes the system cost-effective. When a reactor of a suitable rating is connected between neutral terrestrial connection of the system to limit the line to the earth's current during the time Malfunction in the system, it is called a neutral Earth Reactor.When the capacitor bank is turned on in an unloaded state there may be a high current inrush flowing through it. To limit this inrush the current reactor is linked to each phase of the capacitor bank. The reactor used for this purpose is known as reactor damping. This extinguishes the transient state of the capacitor. It also helps to suppress the harmonics present in the system. These reactors are usually evaluated with their highest inrush current in addition to its continuous current carrier capacity. The wave trap, connected in a series to the feed line, is a kind of reactor. This reactor, together with the line compound capator, creates a filter scheme to block frequencies other than the power frequency. This type of reactor is mainly used to facilitate power line Carrier communication. It's called the Tuning Reactor. As it is used to create a filter chain, it is also called a filter reactor. Usually and popularly it is known as a wave Trap.In delta connected power system, star point or neutral point is created by a zigzag star connected by a 3 phase reactor, called an earth transformer. This reactor may have secondary windings to generate energy for auxiliary power to the substation. That is why this reactor is also called an earth transformer. The reactor, connected between neutral and terrestrial to limit one phase of the earth's fault flow, is called the Arc Suppression Reactor.A reactor is also used to filter harmonics present in DC energy. The reactor used in the D.C. power grid for this purpose is called reactor smoothing. Reactor. reactor in substation pdf. reactor in substation circuit. shunt reactor in substation. function of reactor in substation. purpose of shunt reactor in substation. use of line reactor in substation. use of shunt reactor in substation. working of reactor in substation

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