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Abstract

This paper presents a new method to prevent Cascaded tripping of power lines due to mal-operation of distance relays during major power system disturbances by using Thyristor-controlled series capacitor (TCSC) controllers. These controllers are able to change the network parameters in a fast and effective way in order to limit the consequences and prevent development of disturbances. The behavior and the performance of distance relays with and without TCSC controllers during the March 31, 2015 blackout in Turkey are analysed. The simulation results using URPC software clearly indicate that the use of TCSC controllers could improve reliability of relay operation, enhance the stable operation of power system and prevent future mal-operation involving distance relays in Turkish power system.

Keywords: *Distance Relay Protection, Thyristor-Controlled Series Capacitor, Blackout, Overload Conditions*

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Abstract

Mung beans are the third most important legume crop commodity after soybeans and peanuts. Bahan organic can improve soil structure, increase water holding capacity, and increase soil biological life. The main problem of mung bean cultivation in Indonesia is low productivity and limited cultivated land. This problem can be overcome by optimizing the grumosol land for mung bean cultivation. The challenge of developing green beans on grumosol land is increasing productivity and maintaining the quality of the land for sustainable production. The use of high yielding varieties is one of the technological components for the development of mung bean productivity. The purpose of research is that generate packet technologies such as the development of pea green through the fertilization of organic and assess the effectiveness of the use of fertilizers organic to the growth and results of pea green. The method used is Design Randomized Complete with two factorials is 2 varieties and 3 kinds of fertilizer cage among other dirt chickens, pigs, cows. And got eight combinations among others: V1P0 : Variety Vima 1 without fertilizer / V1P1 : Variety Vima 1 with cow manure (40 grams) / V1P2 : Variety Vima 1 with chicken manure (120 grams) / V1P3 : Variety Vima 1 with fertilizer Pig pen (80 grams) / V2P0 : Viva 3 varieties without fertilizer / V2P1 : Vima 3 varieties with cow manure (40 grams) / V2P2 : Vima 3 varieties with chicken manure (120 grams) / V2P3 : Vima varieties with manure pork (80 grams). The study's fertilizer cage pig dose of 80 grams gives results that differ noticeable on parameter height plant, number of pods and weight of 1000 seeds compared with manure cage chicken 120 grams and manure cage cow 40 grams, as well as varieties of Vima 3 grow more better compared with varieties Vima 1.

Keywords: *Pea Green, Effectiveness, Manure Cage, Varieties*



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