

ABSTRACT

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*Reliability of the 20KV Network with Insulation Cover in the Work Area of
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The installation of Insulation Cover on open channel SUTM aims to protect the electricity distribution network from disturbances caused by animals/wildlife such as birds, monkeys, snakes, squirrels, or even slow lorises as one of the protected animals, which are often attracted to the electricity network because of the location of the high, warm electricity poles, and are often located around their habitat. The method used by the author is to make a comparison before the installation of the insulation cover in January - May 2025. The number of network/feeder disturbance trends where some disturbances are caused by animals. With the many disturbances that occur, the installation of an insulation cover is one of the security solutions for the open SUTM network, so that it has an impact on an accurate comparison and is in accordance with the calculation data with precise and effective field data. By installing this isolation cover, the disturbance caused by animals was compared to before installation, with the calculation of the save cost being (Rp. 26,632,228 - Rp. 2,463,258) = Rp. 24,168,970.

Keywords: Isolation, isolation cover, network reliability, effective.