

# **FEEDER RECONFIGURATION SKTM IN AN EFFORT TO SUPPRESS THE TECHNICAL LOSSES IN THE PT.PLN (PERSERO) AREA CIMAHI**

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## **ABSTRACT**

Loading condition of feeder PCB which supplied from Lagadar substation of Area Cimahi has been overloaded, on the other side, diameter of conductor used on feeder is still 150 mm<sup>2</sup> which technically considered unballance to its loading condition. Hence, overloaded condition and small diameter of conductor can potentially occurs technical losses on PCB feeder and will affect on network reliability as well. To mitigate certain condition, loading on PCB feeder need to be decreased by reconfiguring its load to PCS feeder. Feeder reconfiguration on PCB feeder will be done by transferring some of its load to PCS feeder which loading condition is still underload. The load flow simulation will be a refference to execute reconfiguration on PCB-PCS feeder of area Cimahi 20 kV spindle network. Purpose of this network reconfiguration are to significantly lessen technical losses on PCB feeder which will imply to reliability and continuity of electrical supply on network system.

***Keywords : Reconfiguration, Energy not Sold (kWh), technical losses.***