

**VOLTAGE SAG SOURCE LOCATION AT ISTANA BUDAYA DISTRIBUTION  
SYSTEM**

This thesis is presented in partial fulfillment for the award of the  
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## **ABSTRACT**

This thesis presents on investigating the location of voltage sags at Istana Budaya distribution system. The initial observation found that the cause of voltage sag is due to unbalanced fault. Hence, unbalanced fault are considered in determining the location of voltage sag. The actual Istana Budaya distribution system was simulated by using Matlab Simulink. The influence of transformer winding connection to the fault also being discussed in this thesis. The result of the simulation will be compared with the actual data taken from the Istana Budaya distribution system to determine the location of the fault. The objectives of this thesis is to determine the type of fault and the location of the fault whether it happens on upstream side or downstream side of the system.

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