

## **INTISARI**

Keandalan merupakan faktor yang penting dalam pengoperasian suatu sistem jaringan distribusi. Dalam menentukan nilai keandalan digunakan beberapa parameter sebagai acuan yaitu dengan SAIFI (*System Average Interruption Frequency Index*), SAIDI (*System Average Interruption Duration Index*), dan CAIDI (*Customer Average Interruption Duration Index*).

Berdasarkan perhitungan dan analisis didapatkan bahwa indeks nilai keandalan CAIDI dari Gardu Induk Pedan dikategorikan kurang handal karena terdapat nilai CAIDI berada diatas batas yang ditetapkan menurut IEEE std 1366 - 2003 yang memiliki standar nilai CAIDI sebesar 1,47 jam/gangguan

Kata kunci : Keandalan, SAIFI, SAIDI, CAIDI

## **ABSTRACT**

*Reliability is an important factor in the operation of a distribution network system. In determining the reliability value used several parameters as a reference that is with SAIFI (System Average Interruption Frequency Index), SAIDI (System Average Interruption Duration Index), and CAIDI (Customer Average Interruption Duration Index).*

*Based on the calculation and analysis it is found that CAIDI reliability index index from the Parent Center is categorized less reliable because there is a CAIDI value above the limit specified according to IEEE std 1366 - 2003 which has the standard value of CAIDI of 1.47 hours / interference*

*Keywords: Reliability, SAIFI, SAIDI, CAIDI*