

# Indicator 2: Rate of Protection System Misoperations



## What it measures

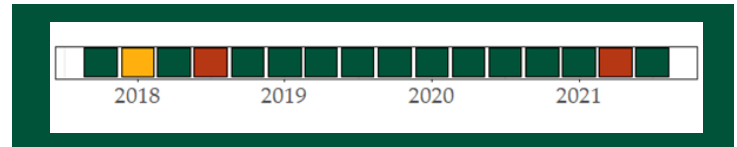
Indicator 2 measures the effectiveness of protection systems in safeguarding system reliability.

## How it is measured

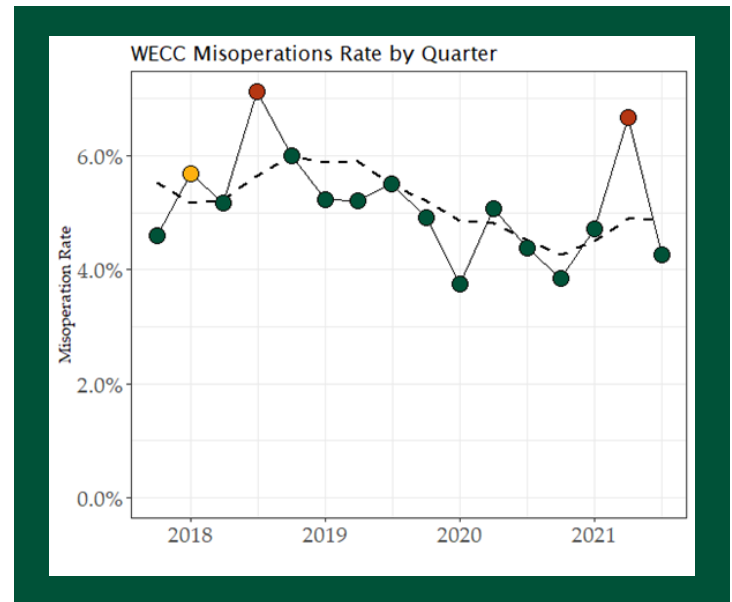
Indicator 2 tracks the ratio of protection system [misoperations](#) to the total number of protection system operations.

## Why this matters

System reliability is reduced when protection systems fail to operate, or they operate incorrectly (“misoperation”). Misoperations are a major contributor to transmission outage severity.



Indicator Performance History



## What does the Q3 2021 evaluation tell us?

The misoperation rate in the third quarter of 2021 returned a low value that is typical of most of the last three years. Consequently, this indicator is “green.” Note that the misoperation rate in WECC has been consistently lower than the NERC 5-year average since 2017. Trends indicate that misoperations currently do not pose a high risk to system reliability.

## DATA SOURCE

Misoperation Information Data Analysis System (MIDAS)

