



## R&D Fund Project

### Measuring Electric And Magnetic Field Under TNB Rentice



EMF Measurement Device



TNB Overhead Line

### Project Overview

TNB Distribution requested TNB Research to conduct electromagnetic field (EMF) measurements and simulations on a few selected sites. TNB Distribution requested that the selected sites be measured and recommendations for electromagnetic field mitigation are produced from the measurement findings. To arrive at the recommendations, computer simulations are conducted to analyze the measured data. The simulations conducted in this project have shown the different types of mitigation options applicable to TNB's overhead lines. In spite of its current electromagnetic field levels being far below the standards set by ICNIRP (1000 mG), TNB can still decide to apply these mitigation options if it wishes to.

### Deliverables

A report detailing:

1. Measurement and assessments of EMF under selected TNB transmission and distribution lines.
2. Recommendations of a practical EMF management, reduction and mitigation options for existing and future installations (lines and substations) in TNB to ensure minimum acceptable risk of EMF exposure.

### Benefits

The findings of this project may be used by TNB Distribution as a reference for electromagnetic field mitigation options. Additionally, it is recommended that TNB adopts a prudent avoidance policy to strengthen its stance in managing EMF issues. Development of this policy will be a great benefit to TNB in dealing with public disputes and complaints regarding EMF issues.