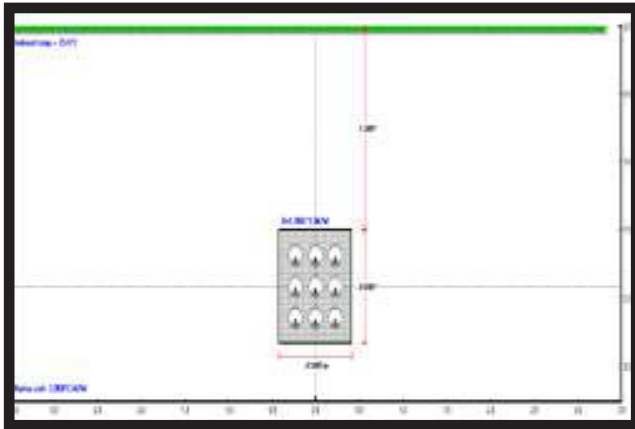


Seeding Fund Project

The Study of Cable Ampacity and Derating Factors for Putrajaya Underground Cable Installation



Ampacity Software Environment



Example of Putrajaya Underground Cable Installation

Project Overview

Maximum current carrying capacity or ampacity and derating factors of underground cable are major concerns in TNB. In this seeding fund project, an ampacity software was identified and procured for the purpose of calculation. Putrajaya has been selected to be a pilot site for this project. This is due to a unique underground cable installation that had been practised by TNBD Putrajaya where the underground cables are laid in HDPE pipes and been enclosed by concrete.

Deliverables

- Ampacity calculation for MV Underground Cable laid in HDPE pipe in Putrajaya.
- A simple guide for underground cables laid in HDPE pipe

Benefits

- Customer (TNBD Putrajaya) can use the simple guide that has been developed as a guideline during planning and operation of underground cable laid in HDPE pipe.
- Reduction/prevention of cable breakdown due to overheating (when loading cable above its ampacity).