

Subway, Prahran, Victoria Voltage Power Optimisation (VPO) Installation

This document provides information regarding the installation of a fixed tap 3 phase 50kVA (70A) Voltage Power Optimisation (VPO) unit at Subway Prahran (21090) at 266 Chapel Street, Prahran, Victoria, 3181. The VPO unit was successfully installed on Friday, 29/10/2021.

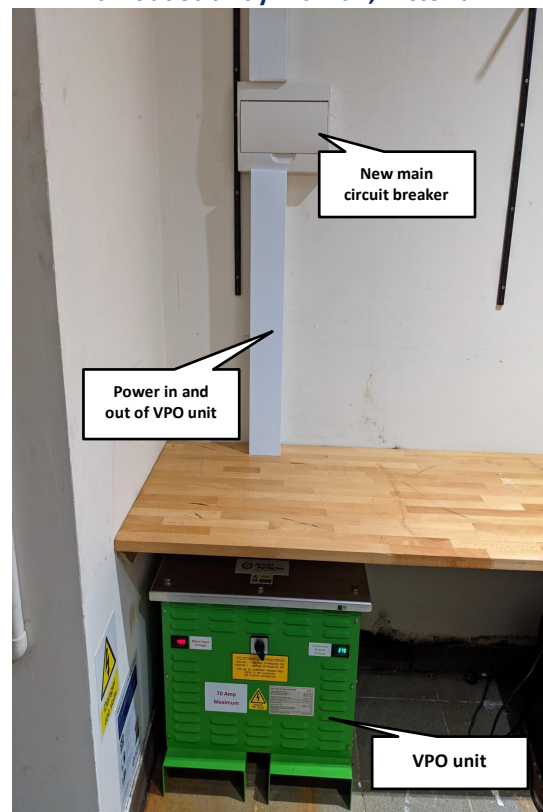
The VPO unit optimises the overvoltage for the main supply, to deliver the correct voltage to the design level on the name plate data of equipment and delivering kWh savings. Due to the energy savings there is a carbon dioxide (CO₂) reduction for the site; that is, a reduced carbon footprint.

The VPO installation preparation work was performed Thursday, 28/10/2021, during normal operating hours of the Subway restaurant, with no interruption to the restaurant operations. A small window of 1-2 hours was required for the incoming supply isolation to the restaurant to complete the series connection of the VPO unit to the grid supply. The VPO was fully commissioned, operational and supply connected to the Subway restaurant before opening hours on Friday, 29/10/2021.

The VPO unit is optimizing/reducing the voltage to the Subway restaurant by 7% per phase. **The results of the savings measurements performed in the week since commissioning showed average energy savings (or % reduction in Watts, and also kg CO₂) for the site was 17.9%.** This will vary at times during the day, and will be further monitored using the cloud-based system installed for the site.

Figure 1 shows the VPO unit installed and operating in the Manager's office, close to the restaurant distribution board.

Figure 1: Successful installation of the VPO unit at Subway Prahran, Victoria



For any further details or information regarding the VPO installation at this site, please contact our authorised sales representative or VAASCO Group directly on telephone number 1300 659 463.

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