

Welcome

to our “e-REW Express”. In this issue, we will guide you through the correct positioning of tariff meters for low voltage (LV) electricity supply.

If you have any suggestion, please send an email to us at mail@hkelectric.com or contact our Customer Installation & Business Development Department at 2887 3455.

Metering Arrangement for LV Supply

1. General

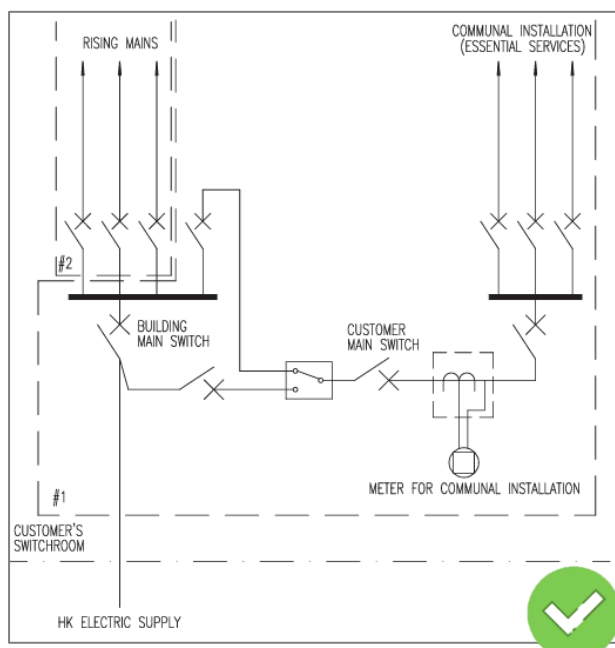
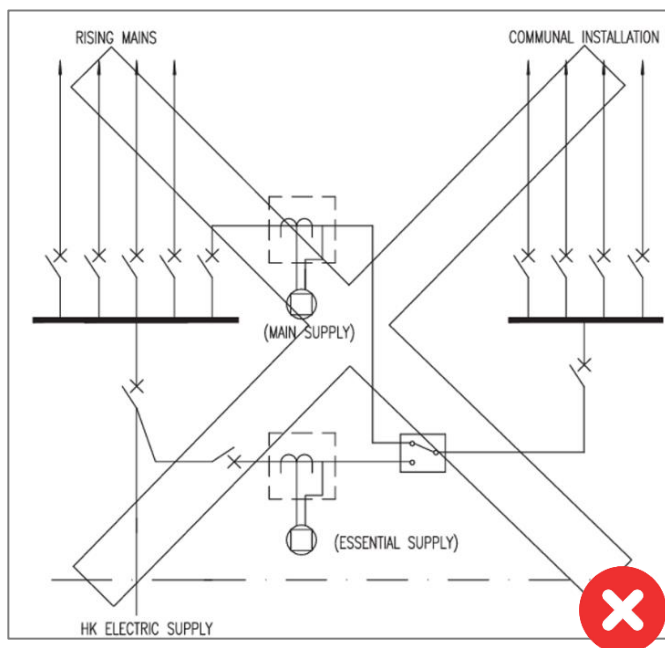
For most residential and commercial buildings, the electricity supplied is usually at a LV voltage of 220 V (single-phase 2-wire) or 380 V (3-phase 4-wire) and at a frequency of 50 Hz. The metering arrangement typically involves:

- Whole current (Direct Connected) meters - for installations with main switch ratings up to 100 A.
- Current transformer (CT)-operated meters - for installations with main switch ratings above 100 A.

2. Metering Arrangement

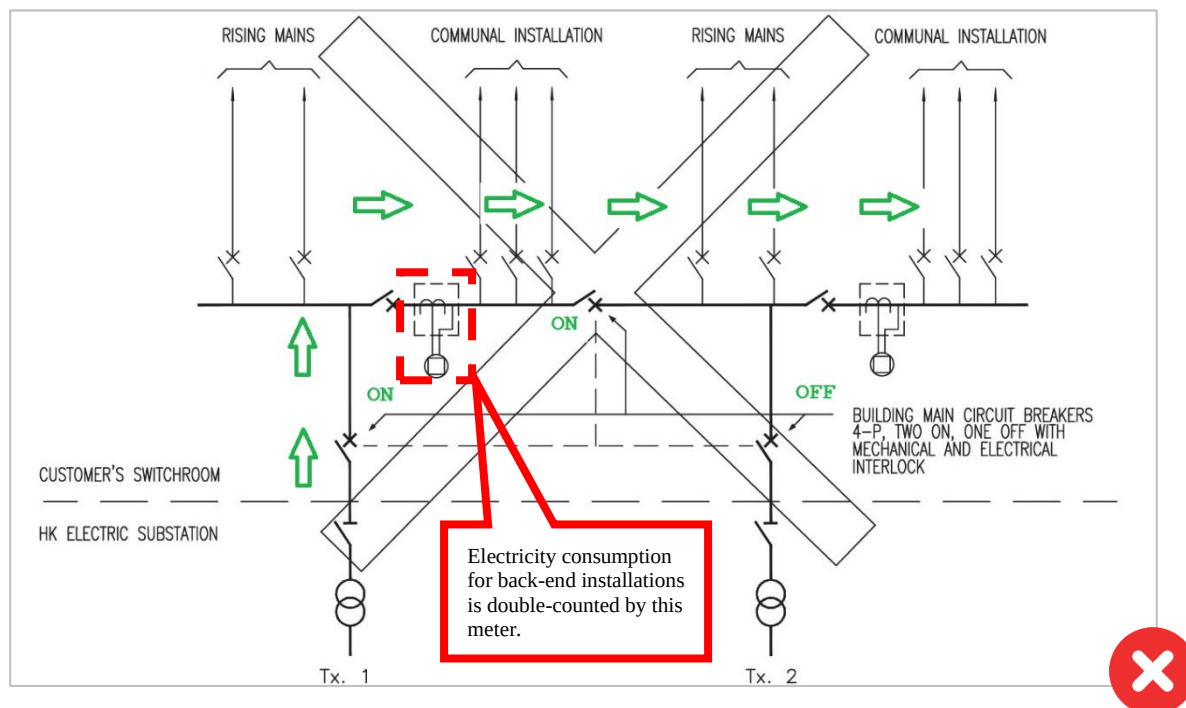
a) Essential Supply Tee-off before Building Main Switch

Only one tariff meter is required to record the total consumption of the communal installation. The tariff meter shall be installed after the changeover device.

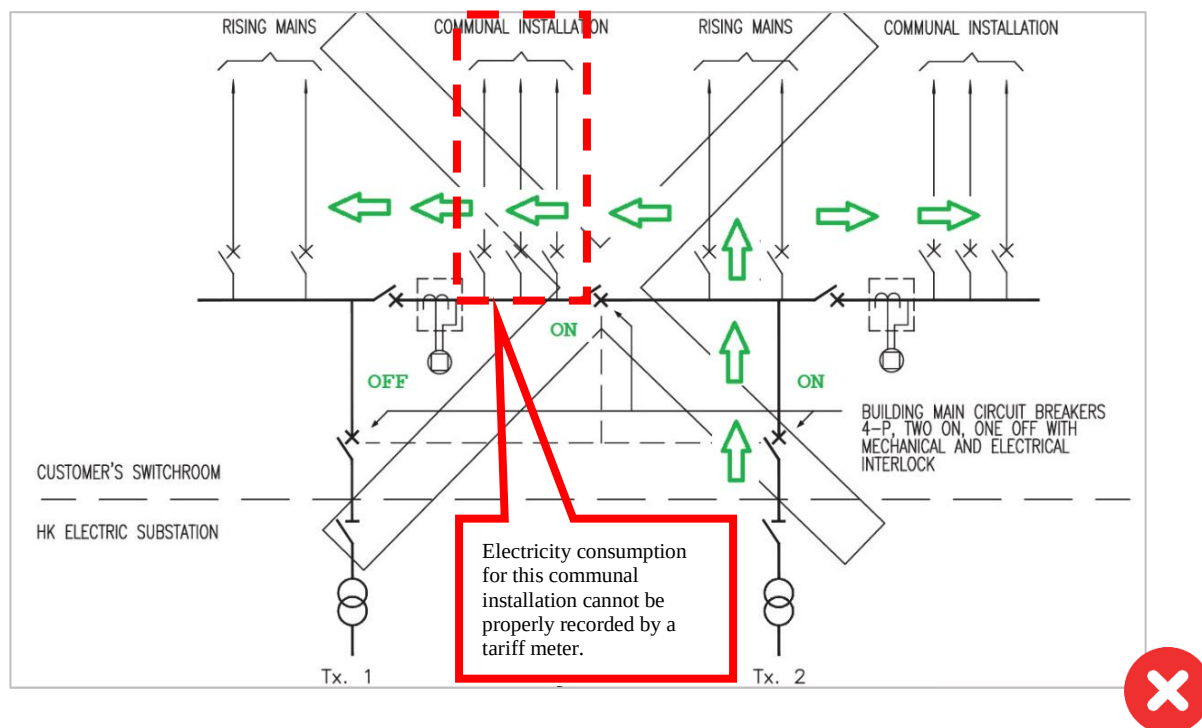


b) Avoid Double Metering

Double-metering shall be avoided under all circumstances. The diagram below illustrates how incorrect meter placement can lead to double-metering in a two-transformer supply arrangement with a bus section switch.

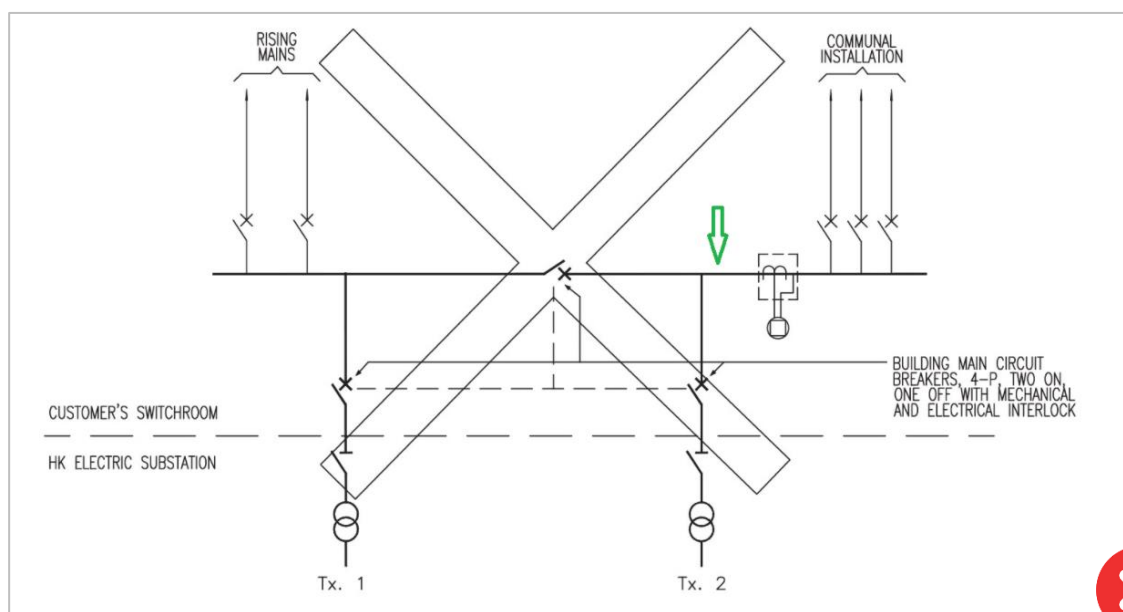
c) Avoid Unmetered Supply

Similarly, unmetered situation shall be avoided under all circumstances.



d) Avoid Unprotected Tariff Meter

A main switch before the HK Electric tariff meter (as indicated by the green arrow below) shall be provided for protecting the tariff meter and the downstream installations.



For comprehensive information on general metering arrangements, customers / RECs / REWs are advised to consult the latest version of HK Electric's Guide to Connection of Supply. This guide can be downloaded from our corporate website using the QR code provided.



We are pleased to offer advisory services to customers / RECs / REWs. You are welcome to visit our Customer Centre at 9/F, Electric Centre, 28 City Garden Road, North Point, or contact us at 2887 3455 for enquiries.