

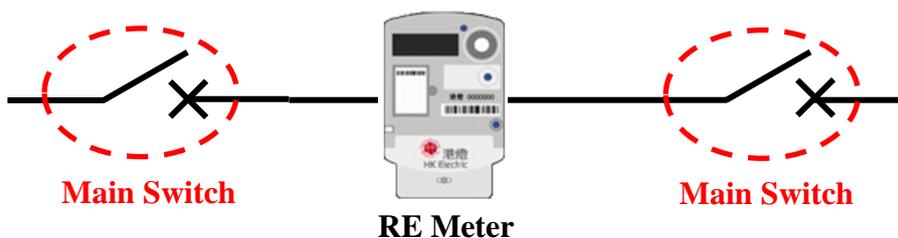
Welcome

to our “e-REW Express”. In submission of schematic wiring diagrams of renewable energy power system (REPS) for application of Feed-in-Tariff (FiT) Scheme, we found some design requirements, which are occasionally overlooked. In this issue, we will highlight the common departures in design of grid-connected REPS so that you could avoid them next time.

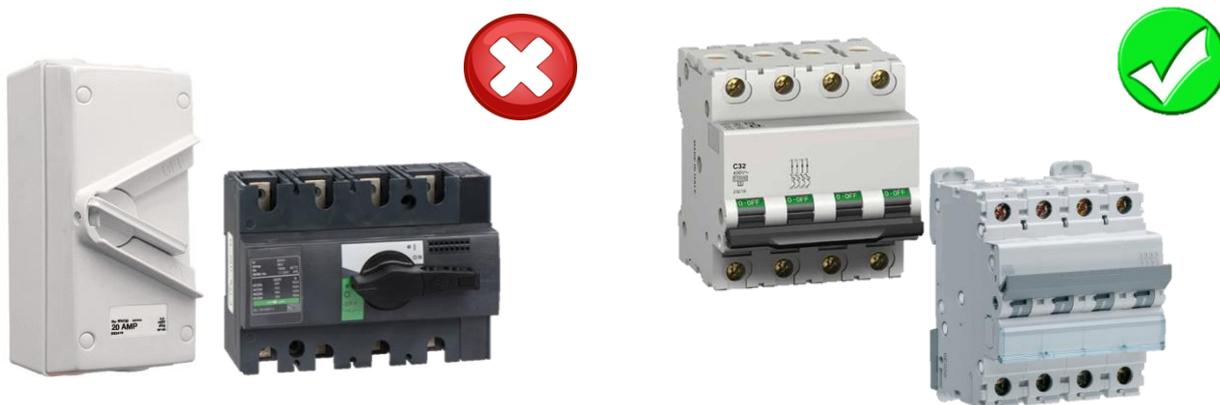
We hope you will find the information of this e-REW Express useful. If you have any suggestion, please send an email to us at mail@hkelectric.com or contact our Customer Installation Section on 2887 3455 so that we can further improve our service.

Common Departures in Design of Grid-connected Renewable Energy Power System (REPS)

1. Main Switch for RE Meter



i. Means of Isolation/ Switching and Protection against Overcurrent and Earth Leakage



Means of protection against overcurrent and earth leakage are not provided.

Main switch shall incorporate means of isolation/ switching and protection against overcurrent and earth leakage.

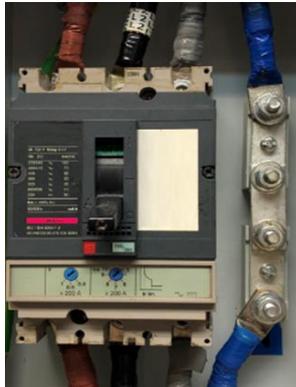
ii. Number of Poles



A single pole switch cannot be used as main switch for 1-phase REPS.



A main switch for 1-phase REPS shall be of double-pole type interrupting live and neutral.



A 3-pole/ TPN switch cannot be used as main switch for 3-phase REPS.



A main switch for 3-phase REPS shall be of 4-pole switch.

2. Meter Leads/ Tails for Direct-connected Type Meter



Cable Size
< 4 mm²

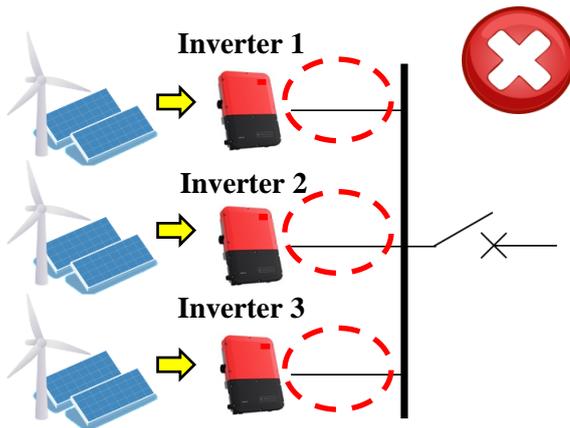
Stranded copper conductor less than 4 mm² is not allowed to terminate onto direct-connected type meter.



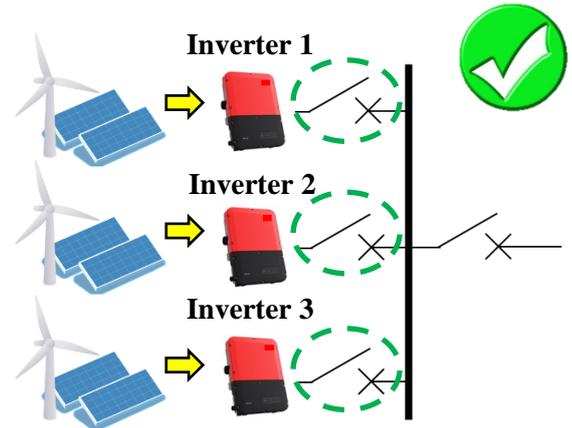
Min. Cable Size
= 4 mm²

Minimum size of conductors used for termination onto direct-connected type meter shall be 4 mm² stranded copper conductor.

3. Provision of Protective Devices

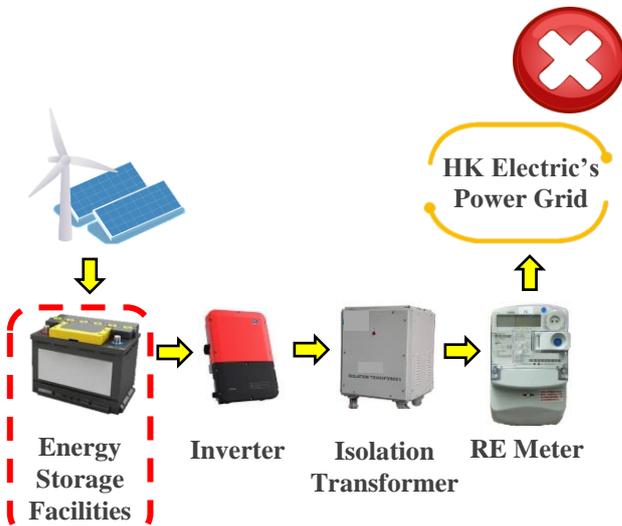


Protective devices are not provided to the output of each inverter that connected parallel.

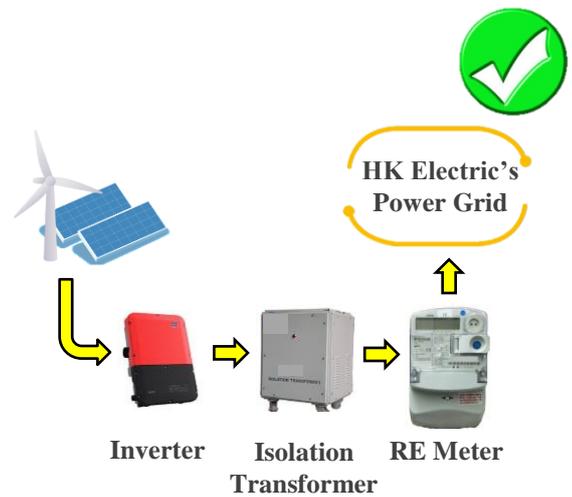


Protective devices should be provided at the output of each inverter that connected in parallel.

4. Non-renewable Energy Source and Energy Storage Facilities



Non-renewable energy sources or energy storage facilities, which will affect the reading of the RE Meter, must not connect to the RE Meter.



Only renewable energy sources can be connected to the RE Meter.

We are pleased to provide our advisory service to Registered Electrical Contractor/Registered Electrical Worker (REC/REW) regarding the design of grid-connected REPS. You may call our hotline at telephone number 2843 3228 or contact us via the dedicated email address RE@hkelectric.com.