
Issue 93 Digital Meeting Etiquette

- Welcome to the Issue 93 subgroup meeting – we'll start shortly
- No video please to conserve bandwidth
- Please stay on mute unless you need to talk – use IM if you can't break through
- Talk – pause – talk
- Lots of us are working remotely – be mindful of background noise and connection speeds

ELEEXON

**Issue 93 – Number of Measuring elements
on High Voltage Metering Systems**

Meeting 1

5 November 2021

Meeting Agenda

Agenda Item	Lead
1. Welcome and Meeting objectives	Iain Nicoll (Chair)
2. Background of this Aspect	Iain Nicoll (Chair)
3. Discuss current practices, future developments and solution	Work Group
4. Next steps & Meeting close	Stanley Dikeocha (Lead Analyst)

Meeting Objectives

Objectives for this meeting:

- Agree on a solution to this aspect
- Confirm redlining requirements



BACKGROUND

Number of measuring elements

The number of measuring elements required is defined in Section 5.3 (Meters) of the CoPs:

Active Energy Meters shall be configured such that the number of measuring elements is equal to or one less than the number of primary system conductors. These include the neutral conductor, and/or the earth conductor where system configurations enable the flow of zero sequence energy.

There is no mention in the Measurement Transformers Section 5.1 of the CoPs of what is required.

Q. Should an equivalent statement for the number of CTs and a requirement for a voltage neutral be added to Section 5.1 (Measurement Transformers) of the CoPs?

Suggested text:

Metering Systems shall be configured such that the number of current transformers provided is equal to or one less than the number of primary system conductors. These include the neutral conductor, and/or the earth conductor where system configurations enable the flow of zero sequence energy.

Consideration shall be given as to whether a voltage neutral is required to be provided depending on the configuration of the Metering System and the number of current transformers provided.

Number of measuring elements

High Voltage (HV) sites connected to the Distribution System have relied on a 2-wattmeter solution requiring two current transformers (CT) for Metering Systems.

One of the aspects being considered by Issue 93 is whether three current transformers should always be provided for HV sites connected to the Distribution System, and a voltage neutral provided.

The Meter Operator Agent would then decide whether to use the 'yellow' (L2) phase CT and the neutral connection from the voltage transformer.

Q. How many CTs are LDSOs fitting as standard for HV Metering Systems on the Distribution System?

Q. Is there an increase in customer requests for an additional CT?

Q. Should the CoPs mandate 3 CTs for HV Metering Systems on the Distribution System?



GROUP DISCUSSION

Group discussion

- What are the current practices?
- What are some future developments?
- Solution
- Does the WG agree that:
 - That criteria for the number of measurement elements should be added to the measurement transformers section of the relevant CoP?
 - That three CTs, and voltage neutral provided, should be installed as standard on High Voltage (HV) sites connected to the Distribution System and let the MOA decide whether to use the extra CT and voltage neutral?



NEXT STEPS

Next steps

- Elexon to present the Subgroup's recommendations to the Issue 93 WG on Friday 26 November
- Subject to the issue 93 WG agreeing to the Subgroup's recommendation, prepare redlining for the Issue 93 WG to agree

MEETING CLOSE

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THANK YOU

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