

# 19NRM05 IT<sub>4</sub>PQ Final Workshop

## Methods and Procedures for Assessing Accuracy of Instrument Transformers for Power Quality

jointly organized by IT<sub>4</sub>PQ and IEC TC 38/WG 47

Istituto Nazionale di Ricerca Metrologica (INRiM) – historical premises  
 Corso Massimo d’Azeglio, 42 – 10125 Torino (Italy)  
 June 22nd 2023

### Programme

All times are CEST (UTC +02:00)

Thursday June 22 2023		
08:45	Participants joining	
09:00	<i>Opening and Welcome</i>	
09:10	<i>IEC TC 38 status report IT<sub>4</sub>PQ -- June 2023</i>	<i>Volker Leitloff (Rte - France)</i> Chair of IEC TC 38 and CENELEC TC 38
09:45	<i>IEC TC 38 WG 47 – Evolution of instrument transformer requirements for the future market: link and exchanges with the IT<sub>4</sub>PQ Research Project</i>	<i>Paolo Mazza (RSE S.p.A. – Italy)</i> Convenor of IEC TC 38 WG 47
09:50	<i>The IT<sub>4</sub>PQ project: from triggers to project outputs</i>	<i>Gabriella Crotti</i> (INRiM – Italy)
10:00	SESSION I - <i>Assessment of IT performances in PQ measurements</i>  Definition of framework test conditions and metrics	<i>Mario Luiso</i> (UNICAMPANIA – Italy))
10:15	Reference system for the assessment of current transformer’s PQ performances	<i>Enrico Mohns</i> (PTB –Germany))
10:30	Inductive VTs: a comparative analysis of performances under PQ disturbance	<i>Palma Sara Letizia</i> (INRiM - Italy)

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10:45 Coffee break		
	<i>SESSION II – IT test procedures for the industrial environment</i>	
11:15	Simplified and low-cost characterization of medium-voltage low-power voltage transformers in the power quality frequency range	<i>Alessandro Mingotti</i> (UNIBO – Italy)
11:30	A simplified procedure based on a wideband comparator for the calibration of CTs for PQ.	<i>Fabio Munoz</i> (VSL- The Netherland)
11:45	Simplified test procedures for frequency characterization of inductive VTs	<i>Mario Luiso</i> (UNICAMPANIA - Italy)
12:00	IT4PQ: wideband testing of LPITs	<i>Andrea Nalli</i> (G&W Altea)
12:15	Time for questions and discussions	
13:00	<b>Lunch</b>	
	<i>SESSION III - ITs under realistic conditions: assessment of combined influence factor impact</i>	
14:15	Inductive VTs: effect of temperature and vibrations	<i>Daniela Istrate</i> (LNE, FRANCE)
14:30	Impact of temperature and burden on the frequency dependent transfer ratio of resin cast MV voltage instrument transformers	<i>Robert Stiegler</i> (TU Dresden - Germany)
14:45	Impact of adjacent phases and proximity on wideband LPVT and VT performance	<i>Palma Sara Letizia</i> (INRIM –Italy)
15:00	LPCTs: effect of influence quantities on the accuracy of Rogowski Coils and simplified testing.	<i>Alessandro Mingotti</i> (UNIBO – Italy)
15:15	<i>Time for Questions and Final Discussion on</i> <i>Key outputs of the project</i> <i>PQ Accuracy class and wideband behaviour</i> <i>Open issues</i> <i>Link with ADMIT</i>	All
16:00	<b>End of Workshop</b>	