

FINAL DISSEMINATION WORKSHOP

of

EMPIR joint research project

„Traceability routes for electrical power quality measurement“



What is EMPIR?

- **E**uropean **M**etrology **P**rogramme for **I**nnovation and **R**esearch
- **main programme for European research on metrology** developed as an integrated part of Horizon 2020
- **implemented by EURAMET** (European Association of National Metrology Institutes)
- **jointly funded by the EMPIR participating countries and the European Union** and has a budget of approximately 600 M€ over seven years

Calls and targeted programmes

- **Calls** launched between 2014 and 2020, focused on targeted programmes (TP):

Health

Energy

Environment

Industry

Fundamental metrology

Standardization

Dissemination

Capacity building (research potential)



Research Potential TP

The coherent, efficient, sustainable and integrated development of a European metrology capacity landscape through joint research projects designed to build capacity for research in less developed NMIs and DIs.

Project summary

- **Consortium:** 13 Partners

- **Coordinator:**

Věra Nováková Zachovalová/Stanislav Mašláš
Czech Metrology Institute (CMI)

- **Website:** tracepqm.cmi.cz

- **Budget:** 494 kEUR

- **Start date:** 1 June 2016

- **End date:** 31 May 2019



Agenda of Final Workshop – 27 May



13:00 Registration, Coffee/Tea

13:30 Welcome & workshop introduction

Coordinator

13:35 Introduction of TracePQM project

NSAI

Special session on metrology and standardization in Power and PQ – part 1

13:40 Customers' needs summary in PQ area

CEM

14:00 Traceability and legal standards in PQ metrology

CMI

14:20 Calibration methods of components of PQ sampling setup

JV

14:40 Poster session + Tea/coffee break

All

Special session on metrology and standardization in Power and PQ – part 2

15:30 Uncertainty evaluation of measured PQ parameters

CMI

16:00 Validation and verification

RISE

16:30 End of day 1

Agenda of Final Workshop – 28 May



9:00	Registration, Coffee/Tea	
9:30	Welcome & workshop introduction	Coordinator
9:35	Introduction of TracePQM project outputs	NSAI
<u>Special session on TracePQM project outputs – part 1</u>		
9:45	Introduction of Low Frequency PQ digital sampling measurement setup	RISE
10:00	Presentation of open software tools for power and PQ sampling measurements	CMI
10:30	Poster session + Tea/coffee break	All
<u>Special session on TracePQM project outputs – part 2</u>		
11:00	Presentation of developed Power and PQ algorithms	CMI
11:15	Digital sampling impedance bridge up to 1MHz	CMI
12:00	Buffet Lunch (+ posters)	

Agenda of Final Workshop – 28 May



12:00 **Buffet Lunch (+ posters)**

Special session on TracePQM project outputs – part 3

13:15 **Introduction of Good Practice Guide**

CMI on behalf of LNE

13:30 **Streaming with digital multimeter 3458A**

SIQ

13:45 **Closing of technical sessions**

Coordinator

13:50 **Open discussion forum**

All

14:20 **Tea/coffee break (+ closing of poster session)**

14:40 **Lab tour** (LF+WB setups with TWM tool, power and PQ labs, impedance, Energy meters) *All*

16:00 **End of day 2**

Closing of workshop



- **Output of the project available for public at the end of the project:**

www.tracepqm.cmi.cz

- Thank you for your attendance!
- Pick up memory sticks with workshop presentations at registration desk!