



## 1<sup>st</sup> ICHQP workshop

# From Planning to Operation: Efficient Assessment of Harmonic Emission from Distorting Installations

King's College London, UK

June 11-12, 2025

In the context of modern distribution and transmission networks network operators face a range of challenges, including the increase of power electronics including inverter-based resources and the impact of increased cabling on harmonic impedance and resonances. Accurate harmonic studies in the context of the connection of distorting installations play an essential role to manage harmonic disturbance levels and ensuring system stability and reliability in all voltage levels.

This industry-academia workshop provides a platform for experts in harmonic analysis - ranging from network operators, manufacturers, consultants and research institutions to standardization bodies - to share their insights from recent projects and explore future challenges and solutions in this evolving field.

### Topics:

#### Harmonics in planning

- Modelling requirements
- Calculation of emission limits
- Implementation of compliance studies
- Specification of Immunity levels
- Selection of mitigation strategies

#### Harmonics in operation

- Measurement and evaluation concepts and challenges
- Contribution assessment
- Network harmonic impedance
- Validation of mitigation measures and simulation models

#### Harmonics in standardization

- Activities at CIGRE and IEC
- National rules and standards
- Critical comparisons
- Challenges and difficulties in application
- Updates on summation exponents and transfer coefficients

#### Case studies

- Practical examples and experiences from harmonic compliance studies
- Results from measurement campaigns related to harmonic emission and disturbance levels

### Workshop concept:

- No parallel tracks
- Only presentation or poster required (no paper)
- Dedicated time slots for discussion and networking
- Low registration fees

More information:  
[www.ichqp-workshop.org](http://www.ichqp-workshop.org)

### Important dates:

- Deadline of abstracts: January 19, 2025
- Notification of acceptance: February 16, 2025
- Registration Early-bird: March 16, 2025
- Workshop: June 11-12, 2025

**Please send your short abstract (500 words)  
by January 19, 2025.**



**TECHNISCHE  
UNIVERSITÄT  
DRESDEN**

**KING'S**  
*College*  
**LONDON**

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Join us to share your experiences and knowledge about harmonic analysis in modern distribution and transmission grids.

This is the 1<sup>st</sup> workshop in the framework of the International Conference on Harmonics and Quality of Power (ICHQP). It is jointly organized by King's College and TUD Dresden University of Technology.

