

# ICHQP 2022

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on Harmonics and Quality of Power  
Naples, Italy, May 29<sup>th</sup> - June 1<sup>st</sup> 2022



## PANEL SESSIONS

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### Session Title

From planning to operation: Evaluating the emission of disturbing customer installations

### Abstract

The share of power electronics in customer installations (consumption and generation) increases at all network levels and the evaluation of its emission is of essential importance to ensure Electromagnetic Compatibility (EMC) nowadays as well as in the future. This includes likewise a fair and justifiable determination of emission limits in the planning stage as well as reliable methods to determine the contribution of a customer installation to the total disturbance level in the network, when it is in operation. Both issues are emerging challenges in the field of Power Quality both for distribution and transmission grids and consequently two joint CIGRE/CIREN working groups were initiated on these topics. JWG C4.40 deals with the revision of the IEC technical reports 61000-3-6,-7,-13 and -14 covering the determination of emission limits during the planning stage for customer installations connected to LV, MV, HV and EHV grids. JWG C4.42 addresses the continuous assessment of the customer contribution with particular focus on harmonics.

This panel session introduces briefly the concepts and ideas developed by the working groups considering their close relationship in terms of managing EMC. Guidance on the whole process of evaluating and monitoring emission limits and customer contribution is provided and experiences and challenges in the practical implementation are discussed.

### Chair/(& Co-Chair if present)

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