

## EUR21\_17 – HYBRID TECHNIQUE LOAD FORECAST AND ESTIMATION FOR UPSTREAM OIL & GAS INDUSTRY

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**Abstract** - The advantages of digital technology for power system protective relays are now commonplace within the industrial power producing industry. Digital relays provide unsurpassed reliability and extended capabilities at a very economical cost. Keeping pace with testing and commissioning requirements of these devices has proven to be a challenge for both protective relay engineers and technicians. While testing procedures have been well-defined for single function electro-mechanical protection devices, modern relay test procedures have been left up to individuals to develop, creating possible shortcuts that may compromise the protection system operation. In this session, we will show examples of some common mistakes typically observed during testing and commissioning process, and suggest ways to avoid them with simple to understand guidelines. Whether the commissioning and testing process is left up to independent testing companies, or performed in-house, we will provide guidelines to avoid possible misoperations.