



## Circle of workshops:

W1. PROTECTION RELAYING AUDIT

W2. STATIC SECURITY ASSESSMENT

**W3.**

# DYNAMIC SECURITY ASSESSMENT

W4. ARC FLASH HAZARD ANALYSIS

W5. INSULATION COORDINATION & TRANSIENT PHENOMENA

W6. POWER QUALITY MONITORING & HARMONIC ANALYSIS

## W3.

**PROTASIS** is offering a range of scientific and technical workshops to assist maintenance, operation, project and engineering personnel in gaining a deeper insight into electric power systems, as well as enable them to operate their electric system and plan future expansions or modifications in a more efficient and secure way.

**Dynamic grid studies** aim to analyse the various dynamic phenomena as well as to detect the most critical ones from the viewpoint of power system stability. Transient stability is evaluated, fault critical clearing times are calculated and margins against loss of synchronism are assessed. Frequency issues, e.g. operation under islanding events or loss of generation, and corresponding countermeasures, such as design of automatic load shedding schemes, are examined. Voltage stability issues, arising from the nature of loads, are investigated through motor starting and reacceleration analysis.

After attending this workshop, personnel would obtain a better understanding of the purpose and scope of dynamic grid studies and how this kind of assessment can complement Static Security Assessment to provide a thorough and complete investigation under steady-state and transient conditions.

If you are interested to attend this workshop  
contact us at [info@protasis.net.gr](mailto:info@protasis.net.gr)