



CONSULTING & SERVICES  
NETWORK COMPLIANCE AND  
MONITORING OF GENERATORS



**PROTASIS is an Independent Electrical Engineering and Consulting Company.**

With a dynamic, flexible and highly competent Engineering team **PROTASIS** is an ideal partner for Independent Power Producers (IPP), Utilities and Industrial Clients seeking high quality power systems consulting and systems integration services.

The company is divided in three departments, the **Power System Studies & Consulting Department (PSS&C-D)**, the **Power System Applications Department (PSA-D)**, and the **Metering & IT Applications Department (M&ITA-D)**.

Below is a detailed list of expert services and solutions provided by **PROTASIS** for **Network Code Compliance and Monitoring** procedures abiding by the latest Commission Regulation (EU) 631/2016, which establishes a network code on **requirements for grid connection of generators**. These services apply to Independent Power Providers, as well as Transmission System and Distribution Network Operators.

**PROTASIS** can take over the assessment of grid compliance according to several grid codes upon request of the Grid Operators or facility owners. The **Power System Studies & Consulting Department (PSS&C)** of **PROTASIS** has the knowledge and experience to conduct studies related to conventional generating units, renewable energy plants or energy storage systems using cutting edge modeling and analysis software. **PROTASIS** has the background and the expertise to build dedicated simulation models of power generating modules and/or facilities for steady state and dynamic analyses. More specifically, the following services can be provided:

- Development and application of dedicated simulation models which properly reflect the behavior of the power-generating modules in both steady-state and dynamic simulations (50 Hz component) or in electromagnetic transient simulations
- Model verification/validation (in-house or provided by the facility owners or the manufacturers) against compliance test results
- Performance of studies demonstrating the expected steady-state and dynamic performance
- Assessment of existing equipment Certificates and Test Reports
- Performance of special studies in case required by the Grid Operators or facility owners (harmonic analyses, energy losses etc.)
- Targeted steady state and dynamic studies in case of decentralized power generation (small wind turbines, PVs, smart grids etc)

The **Power Systems Applications Department (PSA)** of **PROTASIS** combines the qualifications of a Systems Integrator with those of an experienced Engineering & Consulting company, providing, among others, field testing services and power quality studies and measurements. Additional Services offered by PROTASIS in conjunction with the Network Code Compliance Monitoring and Testing include:

- Long-term Compliance Monitoring: Installation of measurement sensors and continuous monitoring of critical electrical indices (in cooperation with the Grid Operator and the facility owner)
- Short-term Compliance Testing:
  - (a) Performance of dedicated tests on-site (upon request from the Grid Operator or the facility owner)
  - (b) Performance of compliance tests to support model verification
- On-site inspection and testing of protection system and settings
- On-site condition monitoring
- Root cause analysis in case of failures

**PROTASIS** has built an international reputation for technical expertise through constant innovation, with Clients in several regions worldwide including European, North African and Middle East Countries.

*Contact our company for more information and details on how we can better serve your key infrastructure Project needs and how we can solve important aspects challenging your operations.*



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