



selectivity art in protection settings coordination

Services and Solutions

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Calculation Solutions

Sizing, optimization and set-points

- **Load Flow**, system loadings & **Voltage drop**
- Transformer **OLTC / NLTC** assessment & optimal set-points
- Power Factor correction (**PFC**) study
- **Short-circuit** current calculation (IEC & ANSI Standard)
- **Circuit Breaker** sizing & verification, symmetrical, asymmetrical and DC offset, delayed zero crossing, **GCB** (generator circuit breaker)
- Optimized **NER** definition

Safety & Protection

- **Short-circuit** current and residual voltages
- **CT & VT** sizing
- **Protection scheme** review and **protective function** definition
- Protection **setting table and protection relay coordination** studies
- **Arc-flash** analysis and incident energy / protection boundary calculation
- **Troubleshooting** and **root-cause analysis** identification: fault investigation, mitigation solution, waveform reading

Grid Code Compliance

- **Renewable** and **conventional** power plant
- PQ and VQ equivalent **capability** curves

Power Quality

- System **resonance** studies
- **THD%** and **IHD%** harmonic calculation, **IEEE 519** studies

Dynamic, Transient and EMT

- **Motor acceleration / starting**
- Rotor angle and Transient **stability**
- Load **Acceptance** / Load **Rejection** study
- **Generator trip** / outage and **Load Shedding**
- Frequency and voltage **protection** validation
- **Switching Transient** study
- Cable & Transformer **energization**
- **TRV** and **RRRV** studies

Deliverables, list of studies

- **Load Flow & Voltage drop** study
- **Power Factor correction** (PFC) and **Reactive power compensation** study
- **Short-circuit** current study (IEC 60909 / 61363 / ANSI Standard)
- **Generator circuit breaker sizing** study (IEC 62271-C37-13)
- Grounding method (optimized **NER**) study
- **Motor acceleration / starting** study
- **Motor re-acceleration / re-starting** study
- **Dynamic** and **Transient stability** studies
- **Generator trip** and **Load Shedding** study
- **Harmonic** & Frequency scan impedance study (IEEE 519)

- **CT & VT** sizing
- **Protection scheme** review and **protective function** definition
- Protection **setting table** and **protection relay coordination** studies
- **Arc-flash** analysis (IEEE 1584)
- **Troubleshooting** and **root-cause analysis** identification: fault investigation, mitigation solution, waveform reading
- **Grid Code** compliance studies: PQ and VQ equivalent **capability** curves
- **Switching Transient** study
- Cable & Transformer **energization study**
- **TRV** and **RRRV** studies

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