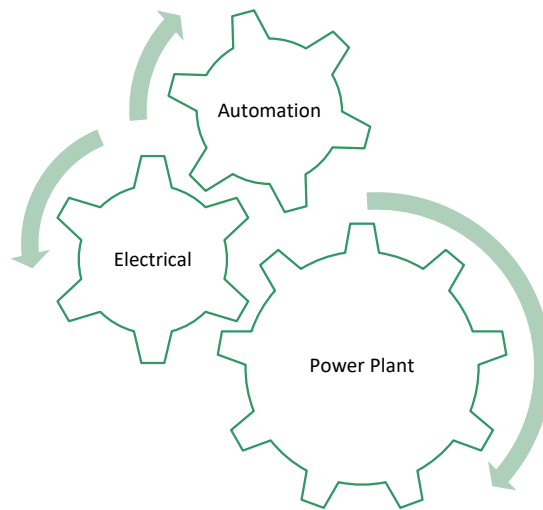


[www.nelumbo.co.in](http://www.nelumbo.co.in)



## Welcome to Nelumbo Group!

**Nelumbo Technologies Pvt Ltd**, an ISO9001, ISO14001 & ISO45001 certified company provides end to end solutions for design, development & manufacturing of Substation Automation Systems (SAS), Automation Systems (PLC/DCS), Control & Relay Panels (CRPs), Excitation & Governing Control panels and other customized control systems. NICPL also provides technical skill development services on Electrical & Automation systems to various industries & corporates.

Nelumbo provides highly efficient and reliable electrical & automation solution for Power plants & Substations. The solutions include:

- PLC, HMI, RTU & SCADA systems
- Turbine/Engine control console
- Digital governing control system
- Digital excitation control system
- Generator protective relaying system
- Auto & Manual Synchronizing systems
- Substation Automation System (SAS)
- Control & Relay Panels up to 400kV Substations
- Data telemetry over IEC protocols to SLDC
- Specialized SCADA systems for HFO/Gas/Hydro/  
Solar power plants

We are authorized System Integrator of M/s Schneider Electric, M/s Wago & M/s Masibus

### Mission:

- Nelumbo Group is passionately committed to provide cutting edge high quality Electrical & Control solutions to its customers

### Vision:

- Our goal is to make significant & lasting impact on Electrical & Automation industry by providing state-of-the art and environment friendly solutions

### Core Values:

- Commitment
- Passion to innovative technologies
- Adopt ethical business practices

### Quality Policy:

The objectives of Nelumbo Group are to provide cutting edge high quality Electrical & Control Systems and allied products & services, conforming to the latest technological trends, specifications & standards of the company and the industry. Above all, meeting customer's requirements at optimal costs and ensuring exactitude control systems is our prime motto.

Authorized System Integrator

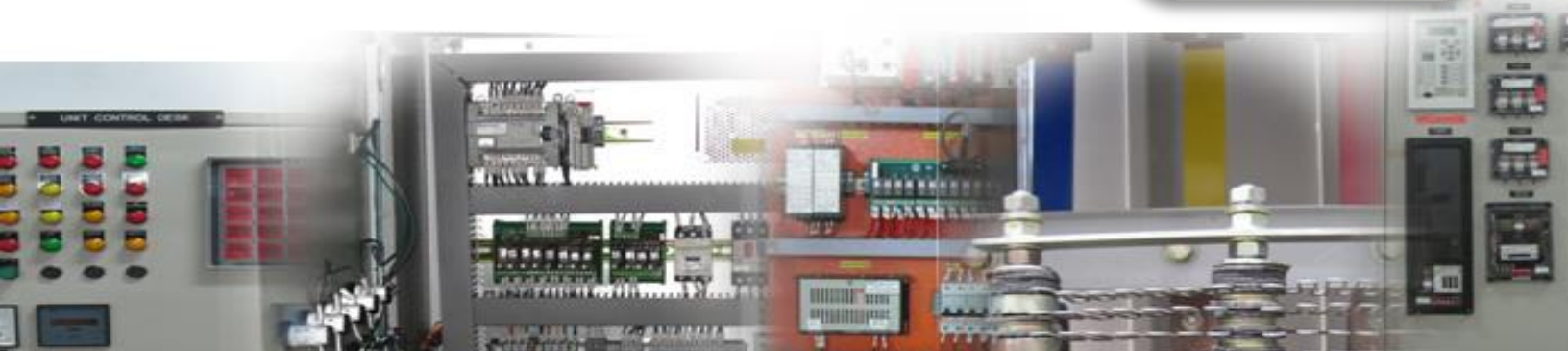
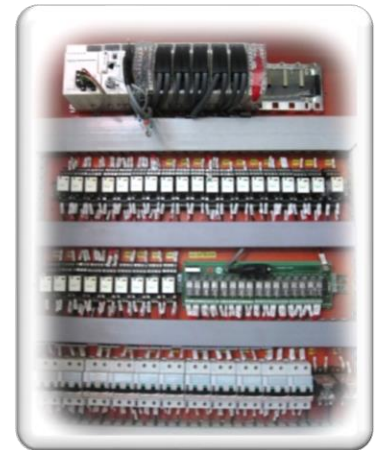


# Control Panels



Technological innovation and the development of state-of-arts products are key dynamics in delivery of highly efficient control & automation solutions

- Turbine control console
- Control desks
- Generator protection panels
- Transformer protection panels
- Line protection panels  
(up to 400kV)
- Synchronizing control panels
- Mimic panels
- Instrumentation panels
- NGR/NGT panels
- LV Panels



# Excitation Control Systems



Digital excitation control systems for synchronous machines, ranging mini to large size

According to machine type:

- Static/Direct excitation system
- Brushless excitation system

According to the power supply:

- AC auxiliary sourced
- DC auxiliary sourced
- Auto-powered from the machine

According to applications:

- Single channel
- Dual redundant channels

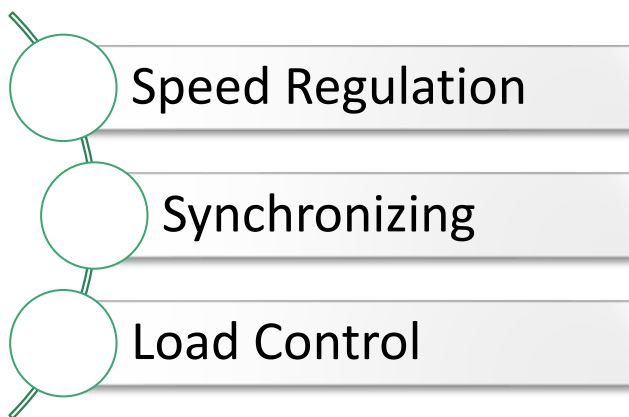




# Digital Governing Control



Digital governing control systems for various types of turbines for power plants i.e. Francis, Pelton & Kaplan



The NGCU is a fully-integrated and configurable controller that utilizes proven microprocessor-based hardware with flexible IOs for the control & speed and load regulation of hydro turbine. A Human Machine Interface (HMI) on the panel-mount touchscreen allows the configuration of machine control functions. It serves the purpose of start-up assistance to operator as well as fine tuning of the system to desired performance. PC based configuration software makes it more flexible and user friendly.

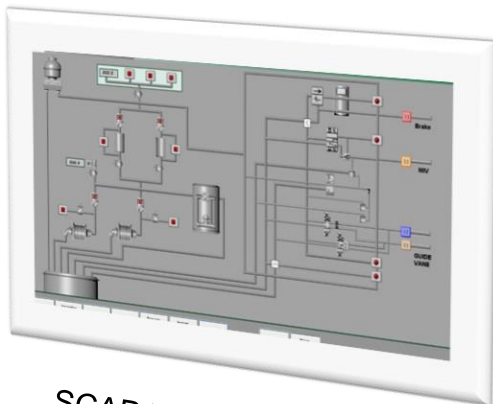


# SCADA/DCS solutions



Design, engineering, development of PC based & Operator panel SCADA solutions for Substations, Switchyards, Power & Process plants

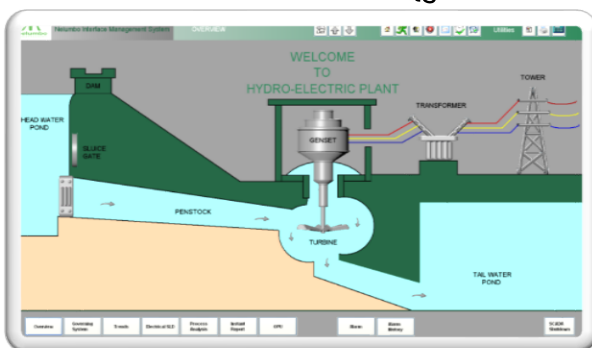
- Vijeo Citect - Schneider
- Intouch - Wonderware
- WinCC - Siemens
- Magelis - Schneider



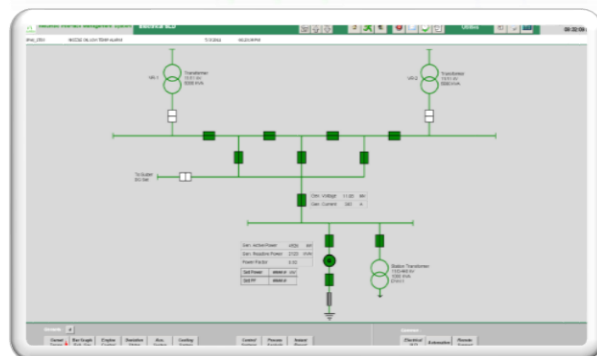
SCADA for Process Plants



SCADA for Diesel/Gas Engines



SCADA for Hydro power plant



SCADA for Sub-Station & Switchyards

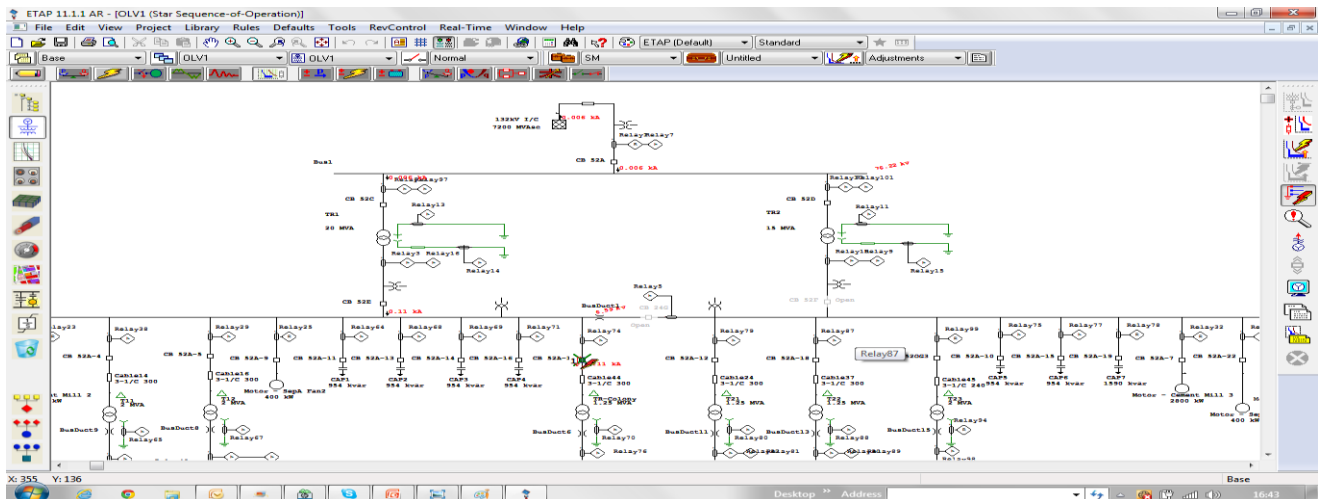


# Power System Study



Power system study, configuration, sequence of operation coordination, testing & commissioning of protective relaying for power plants & power systems

- AC load flow analysis
- DC load flow analysis
- Short circuit calculations
- Sequence of relay operation
- Motor starting analysis
- Arc flash analysis
- Harmonic analysis
- Ground grid analysis

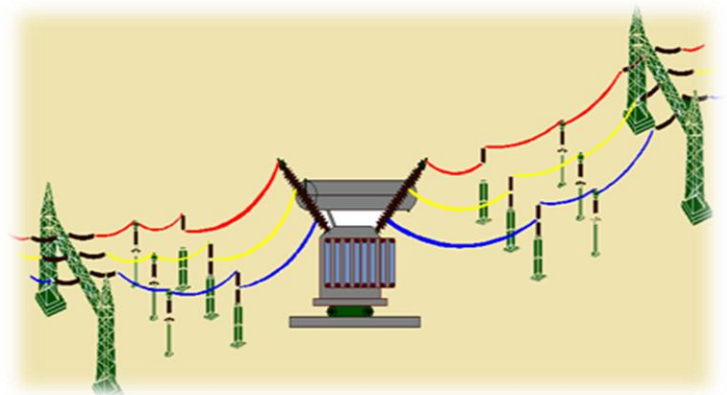
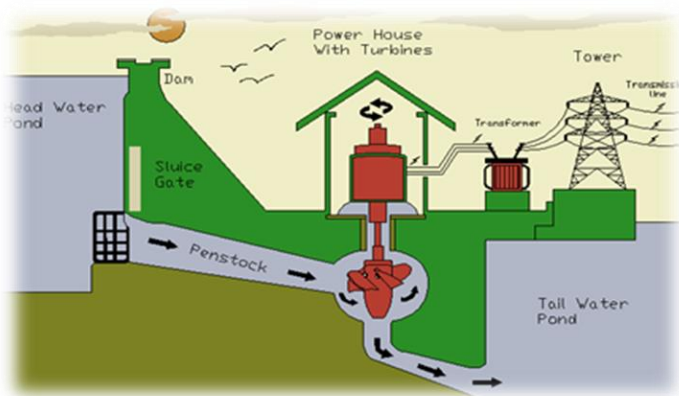


# Substations



Design, engineering, manufacturing and assembling of control panels and protection systems for Substations & Switchyards.

- Sub-station equipments
- Bay control units / IEDs
- Control & Relay Panels - Up to 400kV
- Substation Automation System (SAS/SCADA)
- Device interface over IEC61850, IEC60870-103, Modbus protocols
- Data telemetry to SLDC
  - IEC60870-101/104 protocols



Contact us:

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