



**NORTHERN
POWER
& Automation**



We are a Finnish Global Project Solutions provider established at the turn of year 2004/2005. The personnel of Northern Power & Automation Oy consists of extremely dedicated and highly professional & proficient people who have more than 30 years strong experience on various projects and implementations in over 80 countries worldwide so far.

Northern Power & Automation Oy is operating on Power Plant Installations, Marine Vessels/Installations, Offshore Applications and Composite Plants carrying out successfully Power Project Constructions, Installation Supervision, Commissioning and Various Tasks on analyzing, troubleshooting and evaluations providing customers multiple and tailor-made solutions and services utilizing latest technology and standards; from small size applications and services to complete turn-key projects.

The Approach to projects/assignments is always entity-and system-wide thus enabling the overall control of the implementations and ensuring a smooth, flawless and fast operation and results. This applies even if the works are consisting of partial deliveries (system studies etc.).

Solutions are thoroughly evaluated and conceived in a close co-operation with the customer and adequate data/information is collected in order to come up with a feasible and most suitable plan for the application in question (relocation and upgrading projects especially), keeping the most important target in mind; A Satisfied Customer.



Main Areas of Business and Fields of Operation

- Power Plants; Diesel, Gas-Diesel, Gas, Gas Turbine, Hydro, Steam. Composite and Coal Fired Installations
- Emergency/Stand-By Power Plants and Mobile Units, with Turn-Key type deliveries
- Electrical-& Automation projects, Measuring & trouble shooting services.
- Marine and Offshore Installations; Automation/ Electrification and system-wide projects
- Wood Processing Industry, Paper/Pulp Mills and various Boiler Plants, Steam Systems.



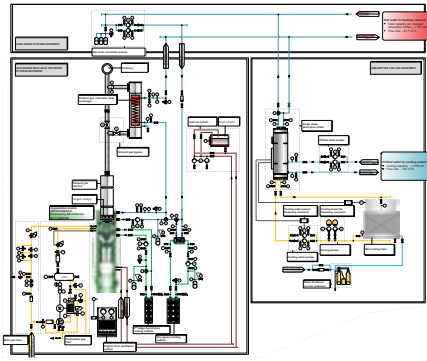
Services and Deliveries:

General Installation executions: Design, Engineering, Procurement, Manufacturing, Implementation and Commissioning / testing.

- Electrical- and Automation systems and entities; (Protection, Control, PLC, HMI)
- Distribution systems, Transforming stations and Switchyards/Switching stations
- Engineering and Design for various project purposes
- Mechanical and Civil constructions/services; piping, assemblies, processes, structures
- Project Installation Personnel (Fitters, Welders, Electricians, Logistics)
- Project / Installation Supervision, Commissioning and Testing Personnel
- Project / Installation Handling and Management (Project & Site Managers).

Modification and Upgrading Projects:

- Control & Automation Systems
- PLC, PC- systems, HMI and Operator Stations
- Installation Integrations
- Frequency/Voltage regulation modifications
- Power Transmission Solutions
- Electrification Projects
- Grid/Utility Monitoring and Supervision (Remote and/or Local)
- Switch-over/Transition Control
- Base load, Island, Peak Shaving, Emergency Power Plant Installations (Stationary or Mobile)
- Plant Relocation, Operation Mode upgrading and Construction Projects



Special Projects:

- IT and Telecommunications Support & Projects
- Hybrid Solutions
- Solar Power & Systems; Containerized units, mirror fields, system constructions
- Water Treatment Solutions; Desalination, Filtering, Purification
- Logistics services; Large freight services, Dispatch arrangements
- Wind Power Solutions; Various deliveries & Projects
- Tri-generation solutions; Electricity, Heating and Cooling
- Cooling Systems/projects

Services & Development

Short summary:

- Power system and Utility Analyses
- Installation and Plant Audits
- Calibration and Measuring Services
- Installation Feasibility, Condition and Performance Studies
- Plant upgrading (technical), performance and feasibility related improvements
- Environmental improvements; equipment and/or operational aspects modifications

Emergency & Stand-by Power:

Northern Power & Automation Oy has a strong experience on stand-by-, prime- and continuous power diesel-generator installations and deliveries.

- Products are well known worldwide with proven manufacturers.
- Solutions are provided both for equipment deliveries and turn-key projects.
- Products and resolutions are ranging from baseplate mounted open type sets to Canopy type and ISO-containers (10 - 40 feet) type installations within 50-3500 kVA (UNIT SIZE)
- Also tailor made container solutions are available.
- Modular Power Plant deliveries (Large Plant Projects)

Stand-by, Emergency & Continuous Power Engine Brands:

- MTU
- Perkins
- Volvo
- Cummins
- Man
- John Deere
- Deutz
- Scania
- Iveco

Stand-by, Emergency & Continuous Power Generator Brands:

- Stamford
- AVK
- Newage
- Leroy Somer
- Marelli
- Mecc Alte
- Marathon

All between 50 kVa- 3500 kVa (UNIT SIZE)

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