

A Trusted Partner in Success

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NEO TECHNOLOGIES

Neo Creative Vision Technologies
Private Limited

AUTOMATION, CONTROLS & CONNECTED INDUSTRY

Industrial engineering. Intelligent machines. Practical support.



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Control systems / Electrical panels / Process & machine automation

Industrial software / Off-highway systems / Training & lifecycle services

One company. A connected portfolio.

Neo Technologies / NCVTPL | Neo Creative Vision Technologies Private Limited



FOUNDER

Niketansingh K Lakum

Also known as Neo

Neo Technologies and NCVTPL are the same company. Our engineering journey combines industrial automation, electrical systems, technical education and digital technology, with activities beginning in 2007.

We work with machine builders, industrial plants, system integrators, maintenance teams and technical institutions. The focus is practical: define the requirement, select suitable technology, integrate it carefully and support the people who operate it.

AUTOMATION & CONTROLS

PLC/PAC, HMI, SCADA, DCS, drives, servo, machine control and process automation.

ELECTRICAL & MEASUREMENT

Panels, power distribution, sensors, instrumentation, test systems and field interfaces.

SOFTWARE & CONNECTIVITY

Industrial networking, historian, MES/MIS, IIoT, embedded interfaces and connected applications.

TRAINING & SUPPORT

NCVT technical programmes, application workshops, commissioning, troubleshooting and maintenance support.

Our working principle: bring engineering, people and technology together around a clear operating need and a documented delivery scope.

Solutions, hardware & services

A single route to hardware, application engineering, information systems and ongoing support.

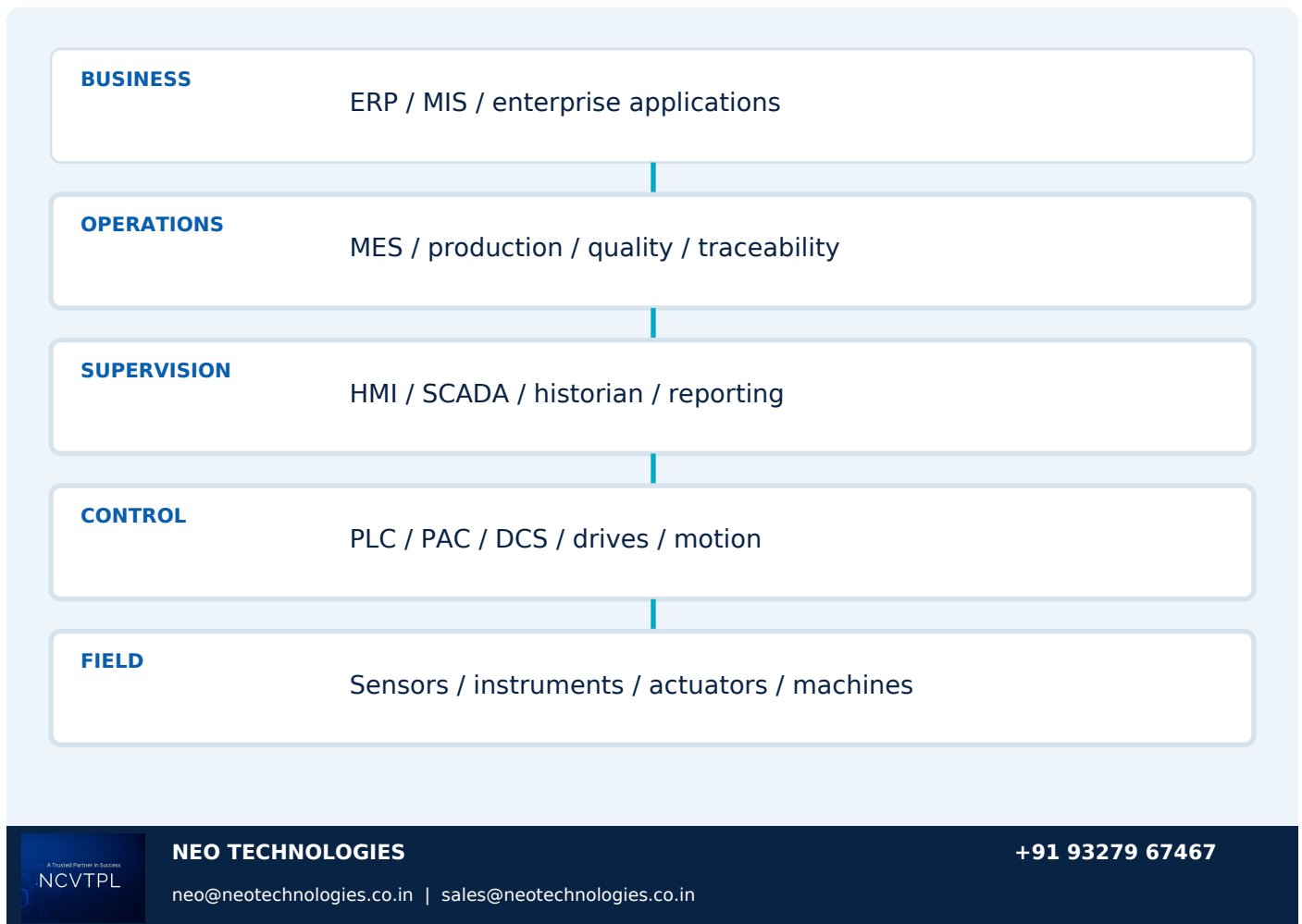
Area	Hardware / solution	Service opportunity	Pg.
Control & supervision	PLC/PAC, HMI, SCADA, DCS, drives, servo	Selection, programming, configuration and integration	05-09
Sensing & connectivity	Sensors, instruments, gateways, networks	Measurement, interface mapping and diagnostics	10-11
Panels & power	PLC, LT/HT, PCC, MCC, APFC, AMF	Design, assembly coordination, testing and handover	12-14
Machines & processes	OEM, robotics, production and process systems	Machine sequences, controls and data interfaces	15-17
Utilities & facilities	Water, solar, energy, HVAC and BMS	Plant control, monitoring, reporting and support	18-20
Software & data	MES/MIS, historian, IIoT, embedded systems	Dashboards, records, firmware and enterprise interfaces	21-22
Off-highway systems	Controllers, CAN/J1939, hydraulics, telematics	Machine-specific hardware and software packages	23-25
Lifecycle & capability	Retrofits, spares, AMC, tests and training	Modernisation, service, documentation and learning	26-31

HOW A PROJECT CAN BE PACKAGED

Hardware supply, one-time engineering, installation/commissioning, software licences, training and recurring support can be quoted as distinct work packages.

From field devices to business systems

A functional architecture for connecting industrial control, operations and information.



CONTROL RESPONSIBILITY

Machine and process logic stays in the appropriate control layer. Business software receives the agreed data and authorised interfaces.

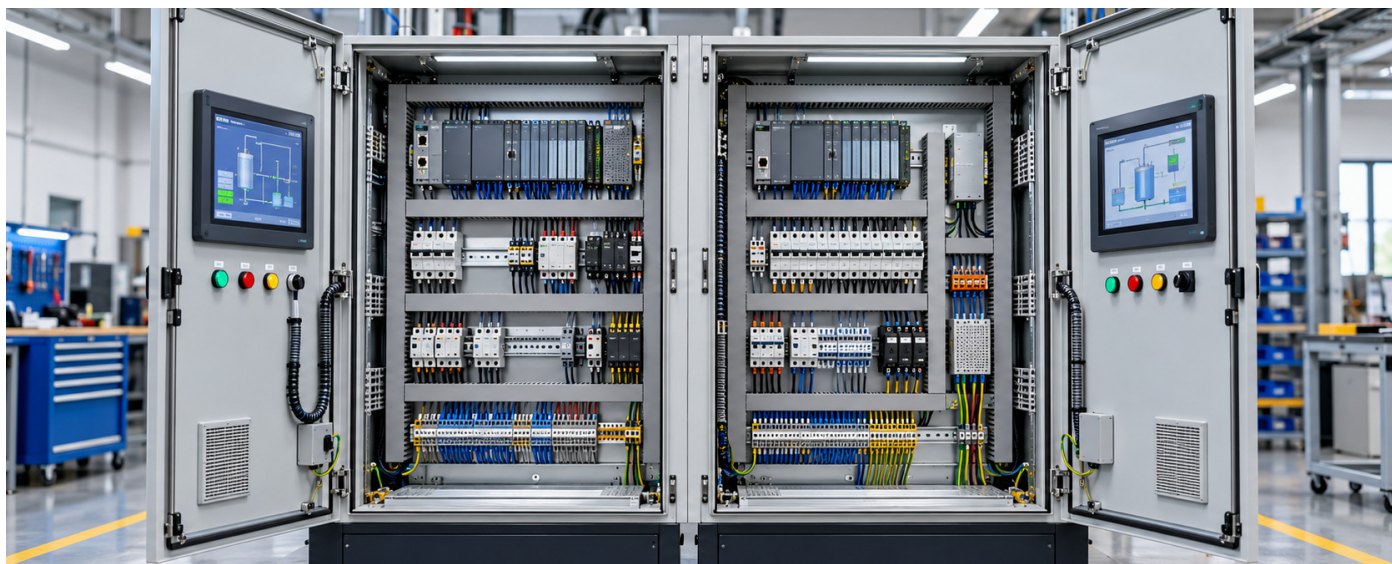
INFORMATION RESPONSIBILITY

Define data owners, tags, timestamps, users, retention and recovery. Verify the information before using it for operational decisions.

Electrical distribution, industrial networks, access controls, backups and lifecycle documentation support all layers. The final architecture is tailored to installed equipment and customer standards.

PLC / PAC control engineering

Control logic, I/O and communications built around the actual operating sequence.



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Illustrative engineering image.

Scope	Hardware, services & deliverables
Hardware supply	Controllers, digital/analog I/O, remote I/O, power supplies, interface relays and industrial communication modules.
Application development	Machine sequences, operating modes, permissives, interlocks, timers, counters, analog scaling and process-control functions.
Integration	Connect sensors, valves, motors, drives and operator interfaces using supported hardwired and network signals.
Engineering handover	Functional description, I/O schedule, program backup, parameter records and agreed commissioning checks.

Typical applications: packaging, conveyors, pumps, mixing, material handling, process skids and machine auxiliaries.

HMI, SCADA & plant visibility

Put operating status, alarms, history and useful instructions in front of the right people.



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Scope	Hardware, services & deliverables
Operator interfaces	Machine screens, plant overviews, setpoints, recipes and maintenance pages aligned with operator tasks.
Alarm & event handling	Prioritised messages, acknowledgement, event capture and diagnostic information for fault investigation.
Trends & reporting	Historical trends, shift reports, production records and equipment information from agreed data sources.
System delivery	Tag database, screen hierarchy, communication setup, user roles, backups and operator training.

Project decisions include tag counts, clients, licensing, retention periods, reporting formats and availability needs.

DCS, process loops & batching

Coordinate continuous and batch processes with a documented control philosophy.



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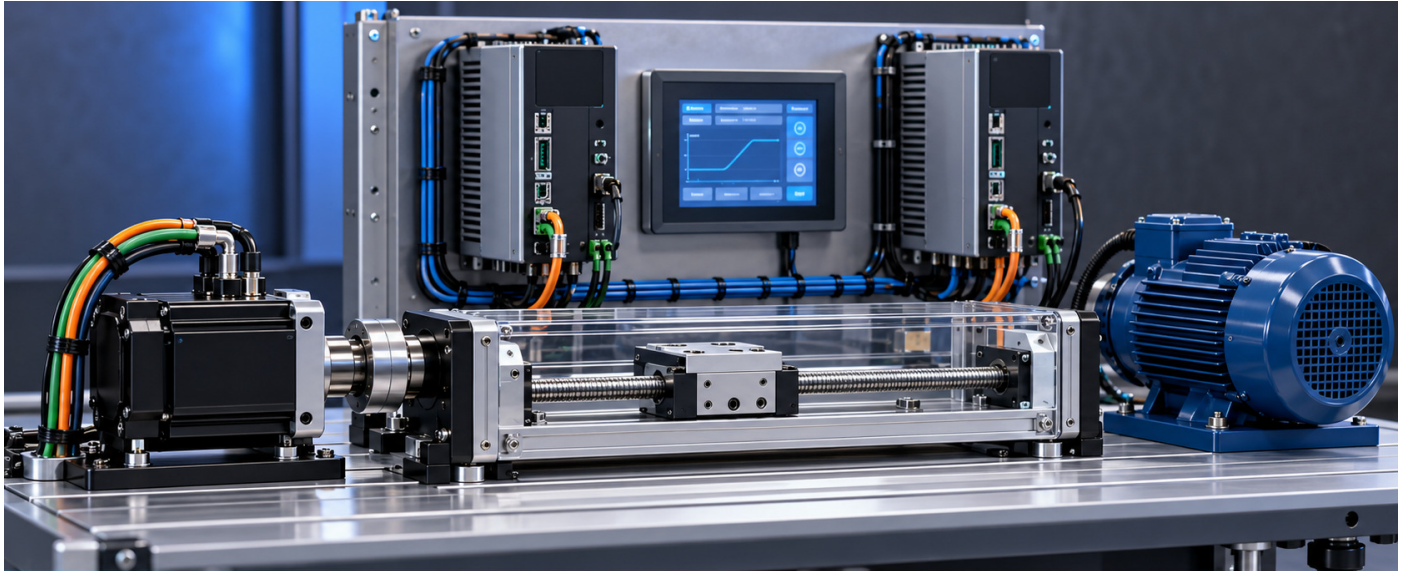
Illustrative engineering image.

Scope	Hardware, services & deliverables
Control design	P&ID; review, instrument and I/O schedules, operating narratives, sequences and cause-and-effect requirements.
Process functions	PID regulation, cascade/ratio interfaces, equipment coordination and recipe-driven operating steps where required.
Operations information	Operator graphics, alarms, trends, batch records and historian interfaces selected for the process.
Integration & testing	Instrument interfaces, controller configuration, loop checks, functional tests and process-team handover.

Chemical, pharmaceutical, food, oil-and-gas and utility applications are scoped to their process duties. Safety instrumented functions require a separate validated scope.

AC / DC drives & motor control

Match the motor, load, supply and control method before selecting the drive.



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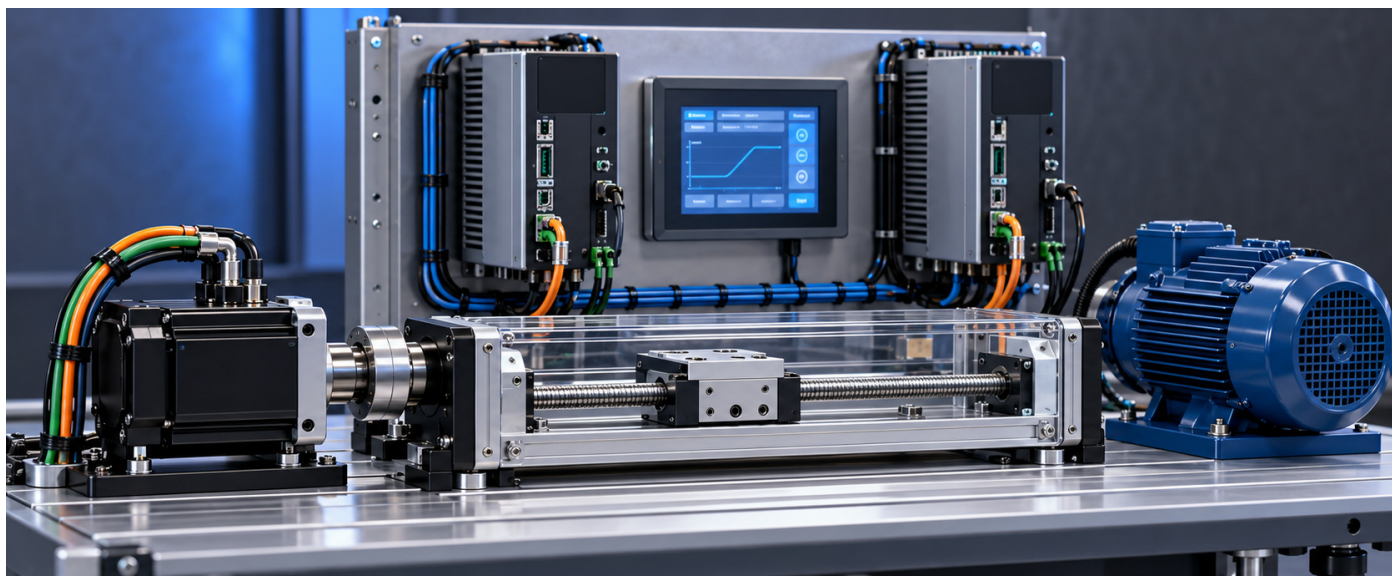
Illustrative engineering image.

Scope	Hardware, services & deliverables
Hardware portfolio	Variable-frequency drives, DC drives, soft starters, motor protection, braking components and control accessories.
Application engineering	Speed/torque requirements, duty cycle, motor information, supply conditions and control-interface review.
Programming & setup	Drive parameterisation, start/stop logic, speed references, fault handling and PLC/HMI integration.
Commissioning & support	Motor checks, controlled tuning, recorded parameters, troubleshooting and migration planning for older systems.

Applications include pumps, fans, conveyors, mixers, extruders, winders and processing lines. Energy improvements are assessed against the actual operating duty.

Servo systems & coordinated motion

Develop positioning and synchronisation around the mechanics and production requirement.



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Scope	Hardware, services & deliverables
Motion hardware	Servo drives and motors, encoders, motion controllers, feedback devices and compatible industrial networks.
Machine functions	Positioning, indexing, registration, electronic gearing, coordinated axes and application-specific motion sequences.
Engineering services	Axis sizing inputs, travel and load review, homing strategy, tuning and motion-to-PLC/HMI integration.
Release package	Axis parameters, operating limits, recovery sequences, diagnostic screens and repeatability test records.

Relevant to packaging, converting, textile, printing, assembly and handling equipment. Mechanical limits and safety functions are agreed with the machine builder.

Instrumentation, sensors & testing

Acquire dependable measurements and connect them to useful control and maintenance actions.



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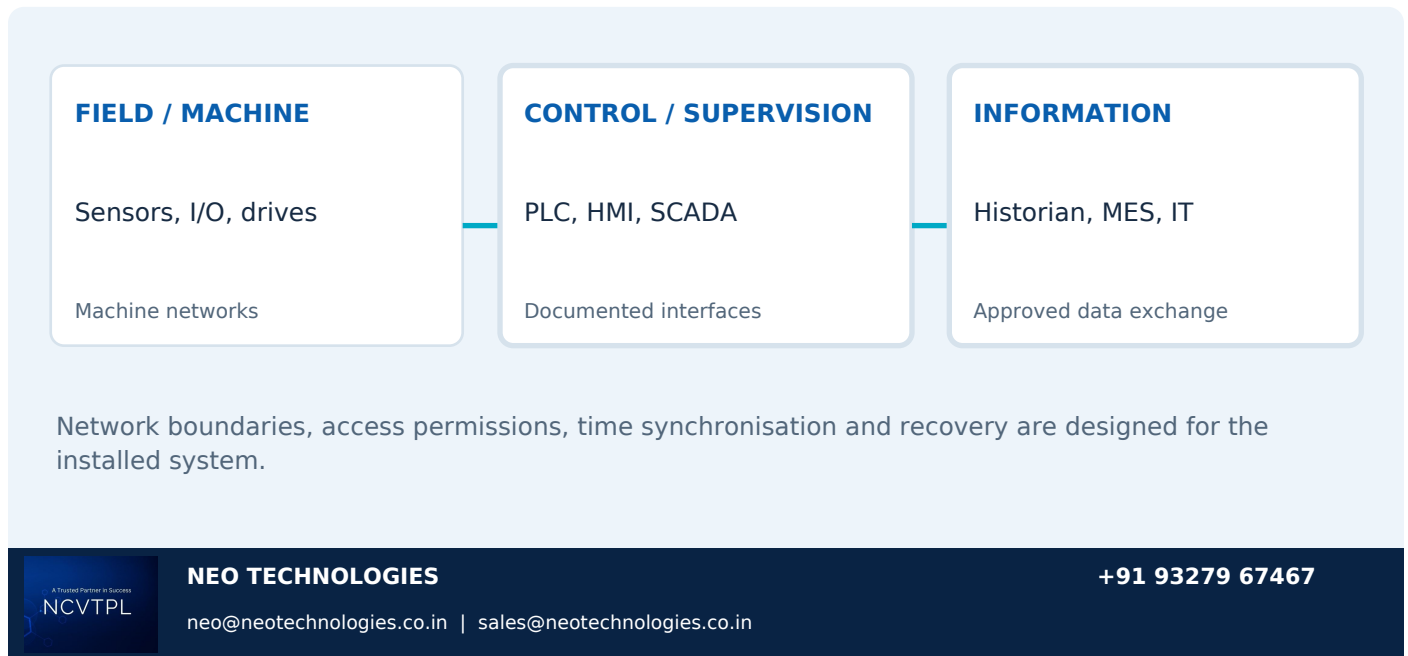
Illustrative engineering image.

Scope	Hardware, services & deliverables
Measurement hardware	Pressure, flow, level, temperature, position, speed, proximity, weighing and application-specific analytical instruments.
Interfaces & actuation	Signal conditioning, isolators, transmitters, data acquisition, control valves, actuators and supported field interfaces.
Engineering services	Selection, scaling, loop drawings, PLC mapping, calibration planning and functional verification.
Test & measurement	Test benches, acquisition systems, trend logging, inspection records and equipment-diagnostic support.

Calibration range, accuracy, traceability and certificate requirements are agreed at enquiry. Accredited calibration, where required, is a separately confirmed laboratory service.

Industrial networks & OT integration

Connect equipment through documented interfaces, network ownership and serviceable architecture.

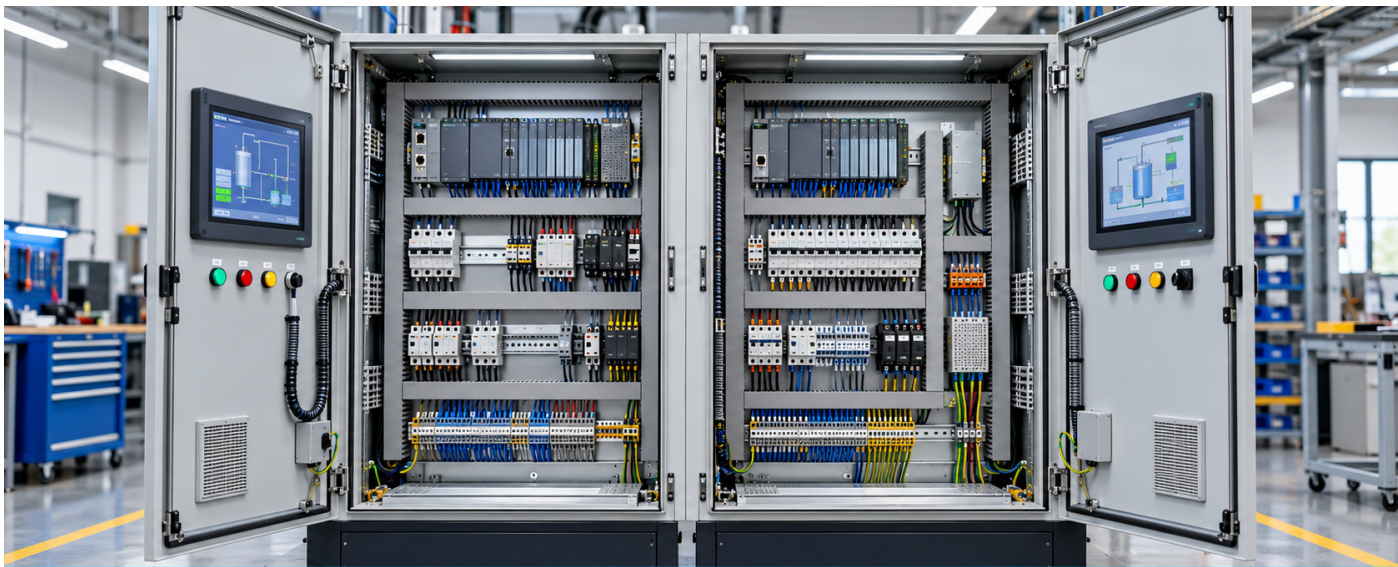


Scope	Hardware, services & deliverables
Plant & machine networks	PROFINET, PROFIBUS, EtherNet/IP, EtherCAT, Modbus TCP/RTU and serial interfaces, subject to device support.
Data interoperability	OPC UA, supported legacy OPC DA interfaces, gateways, industrial PCs and communication drivers.
Network engineering	Device inventory, topology, IP/address plan, cabling, switches, network diagnosis and communication testing.
OT support scope	Access control, segmentation, authorised remote access, backups and recovery coordination with the customer's IT/OT team.

A shared connector or protocol name does not guarantee compatibility. Device profiles, firmware, licensing, timing and access permissions are checked during design.

PLC panels & control assemblies

Translate control requirements into a documented, wired and testable physical assembly.



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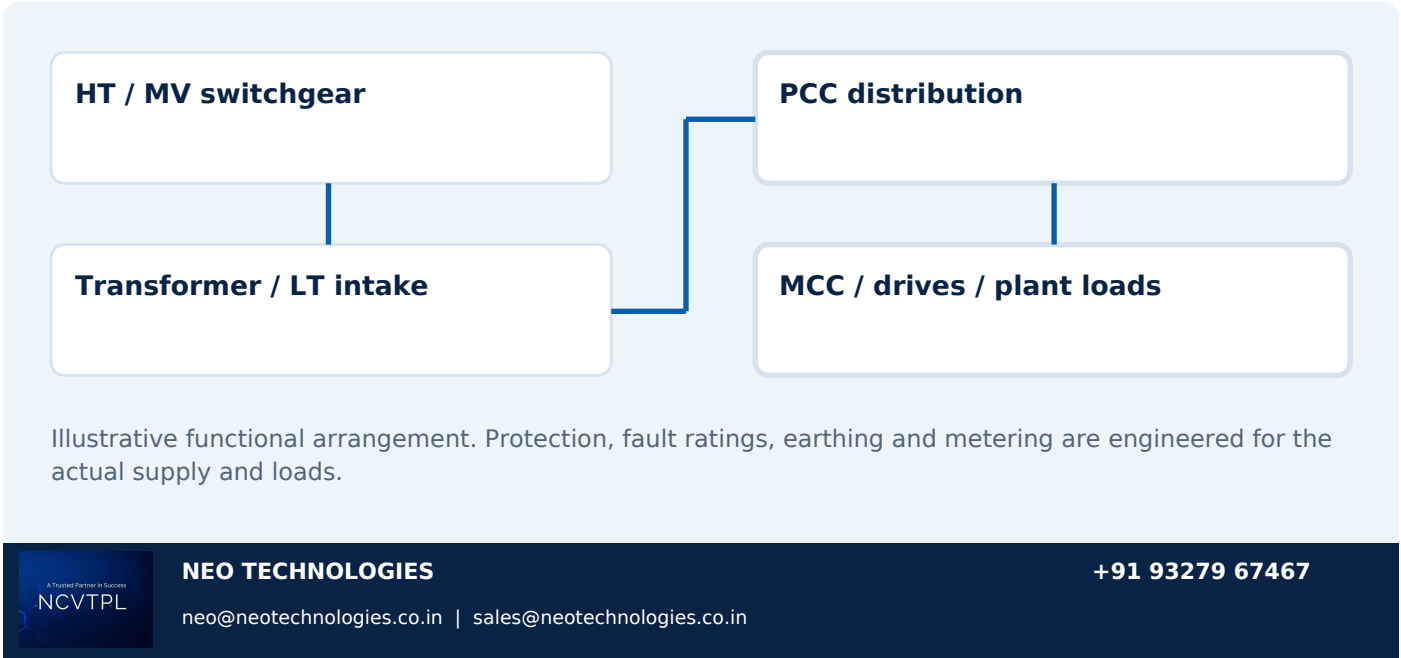
Illustrative engineering image.

Scope	Hardware, services & deliverables
Panel types	PLC/HMI, remote I/O, instrumentation, marshalling, VFD/servo, operator desks and application control panels.
Design package	BOM, general arrangement, schematics, I/O list, terminal schedules, cable information and enclosure selection.
Assembly & wiring	Component mounting, power/control segregation, identification, termination and workmanship inspection.
Factory verification	Drawing review, wiring checks, I/O simulation, sequence tests and release documentation before dispatch.

Thermal conditions, ingress protection, supply quality, service clearance and future expansion are considered in the design.

LT / HT power, PCC & MCC panels

Coordinate power distribution, protection, metering and motor feeders with automation.

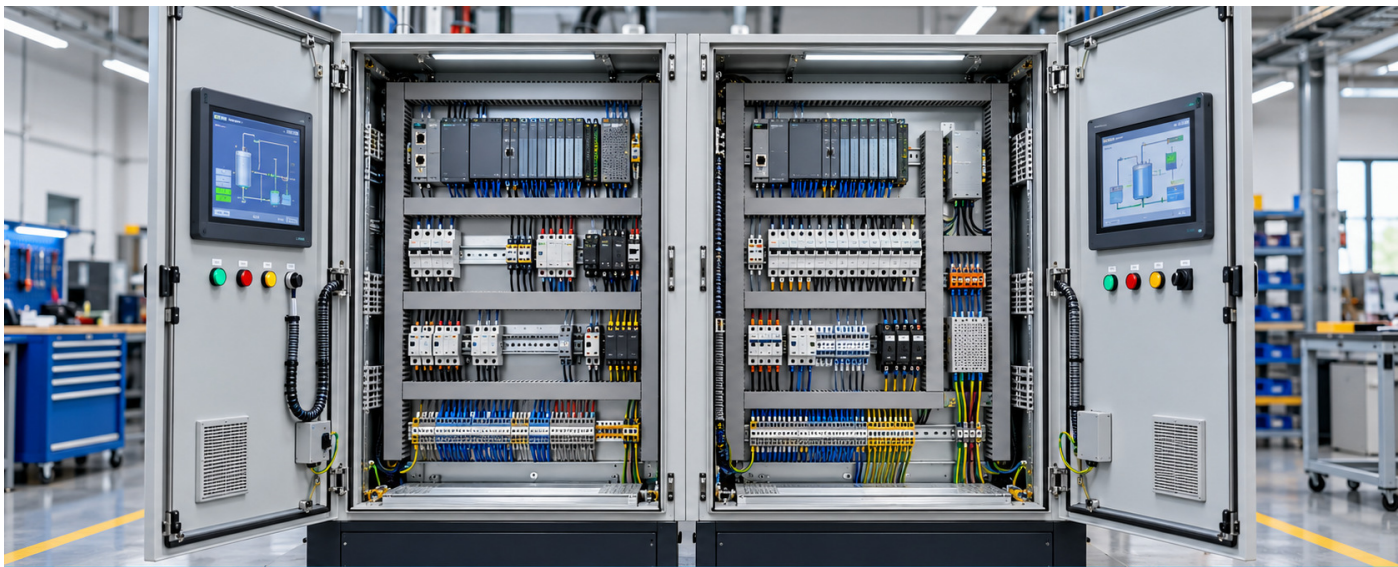


Scope	Hardware, services & deliverables
LT / PCC distribution	Incoming and outgoing feeders, bus couplers, switching, protection and metering for the specified system.
MCC / motor feeders	DOL/star-delta arrangements, soft starters, VFD feeders, motor protection and control-system interfaces.
HT / MV switchgear	VCB-based incoming, outgoing and coupling arrangements; relays, CT/PT and metering defined for the project.
Engineering & delivery	SLD, load schedules, GA/BOM, protection coordination inputs, assembly/testing coordination and site integration.

Voltage rating, fault level, protection, standards, test responsibility and specialist/OEM involvement are defined before manufacture.

APFC, AMF & energy management

Bring power-factor control, standby-source functions and energy data into one engineering scope.



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Scope	Hardware, services & deliverables
APFC systems	Capacitor stages, suitable switching, APFC relay and detuned arrangements where the load and harmonic study require them.
AMF / source control	Mains and generator status, transfer logic, electrical interlocks and coordination with the selected switching equipment.
Energy measurement	Meters, CTs, gateways, power/demand logging, feeder trends and reporting dashboards.
Engineering services	Load review, device selection, panel drawings, functional checks, SCADA interfaces and operational handover.

Generator synchronisation, protection studies and high-voltage work are separately scoped with the relevant specialists. Meter data supports informed operating decisions.

OEM machine automation

Create a repeatable control package for a new machine, variant or specialised subsystem.



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Scope	Hardware, services & deliverables
Machine-control package	PLC, HMI, drives, servo, sensors, panel, harnesses and industrial communication selected together.
Application functions	Operating modes, sequences, recipe parameters, changeover assistance and diagnostic guidance.
OEM engineering support	Machine study, electrical design, program development, installation interfaces and prototype commissioning.
Production handover	Versioned software, drawings, BOM, settings, operator guidance and a repeatable acceptance procedure.

Applications include packaging, filling, converting, textile, assembly, handling and machine-tool auxiliaries. Commercial terms can separate development from repeat-machine supply.

Robotics, vision & line integration

Coordinate handling, inspection and production equipment around the customer's workflow.



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Scope	Hardware, services & deliverables
Handling & automation	Conveyors, sorting, loading/unloading, palletising and robotic-cell interfaces.
Inspection & identification	Machine-vision interfaces, barcode/QR readers, part detection, test results and reject tracking.
Production integration	PLC handshakes, equipment states, product routing, inter-station communication and recovery logic.
Engineering delivery	Cycle study, interface specification, software, commissioning and production-data integration.

Robot selection, tooling, guarding, safety functions and validation are agreed with the OEM and suitable specialists. Vision performance is tested with representative parts and lighting.

Process automation across industries

Adapt the control package to the process, product, environment and operating team.



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Scope	Hardware, services & deliverables
Chemical / pharma / food	Dosing, batching, mixing, transfer, utilities, process records, recipes and traceability interfaces.
Oil, gas & lube blending	Tank monitoring, pump/valve coordination, blending sequences and operational reporting.
Metals / minerals / materials	Iron and steel, rolling mills, cement, glass, ceramics and furnaces: drives, handling, instrumentation and monitoring.
Textile / paper / polymer	Machine sequences, temperature control, drives, winding, utilities and production-information systems.

A defined enquiry identifies the process section, existing plant standard, instruments, operating modes, test criteria and data requirements.

Water, wastewater & pump systems

Combine local control, process measurement and remote visibility for water infrastructure.



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Scope	Hardware, services & deliverables
Treatment applications	WTP, STP, ETP, RO, filtration, aeration, dosing, sludge handling and reuse systems.
Pumping & distribution	Duty/standby sequencing, tank level and pressure control, VFD interfaces and alarm handling.
Field measurement	Flow, level, pressure, conductivity, pH and other measurements selected for the actual treatment requirement.
Software & support	PLC/SCADA, trends, operating-hour logs, maintenance information, reports and remote-station interfaces.

Instrument suitability, process guarantees and any regulated reporting interface are defined with the process supplier and customer.

Solar, power & renewable monitoring

Collect plant information so operators can review equipment, events and generation history.



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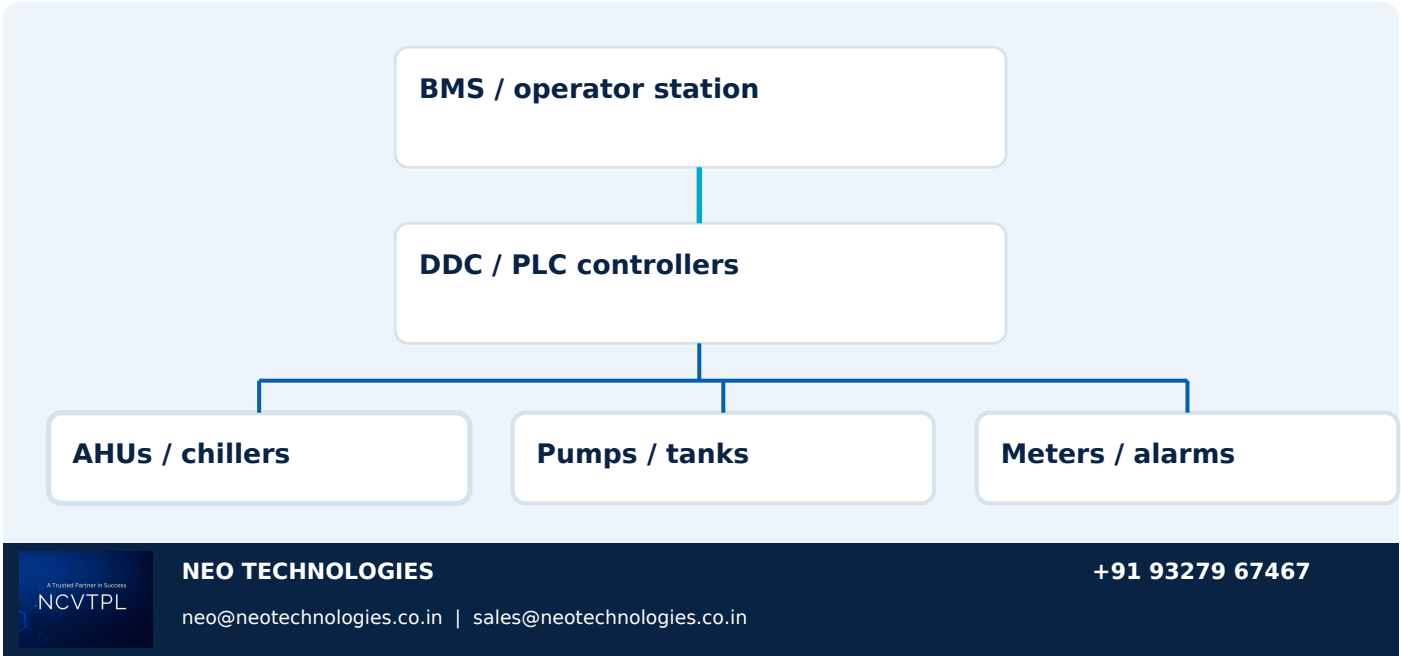
Illustrative engineering image.

Scope	Hardware, services & deliverables
Solar SCADA interfaces	Supported inverter, meter, weather-station, transformer and switchgear information.
Plant supervision	Plant overviews, alarms, trends, equipment status, event logs and authorised remote access.
Performance information	Generation reports, availability records and agreed performance calculations based on validated input data.
Electrical integration	Metering, control panels, communication networks, auxiliary control and commissioning support.

Interface access, signal quality, time synchronisation and the reporting methodology are agreed before deployment.

BMS, HVAC & facility automation

Bring building utilities, plant equipment and operational alarms into a coordinated view.



Scope	Hardware, services & deliverables
HVAC & utilities	AHUs, chillers, ventilation, pumps, tanks and other building-service equipment.
Controls & hardware	DDC/PLC interfaces, sensors, actuators, VFDs, control panels and supported gateways.
Operational software	Equipment schedules, temperature/pressure monitoring, alarms, trends and energy reports.
Facility integration	BACnet, Modbus and other supported interfaces; selected access/security status integration where authorised.

Control sequences are agreed with the mechanical designer. Life-safety and fire systems retain their required independent design and approval responsibilities.

MES, MIS, historian & ERP interfaces

Connect production information to practical operational and business decisions.



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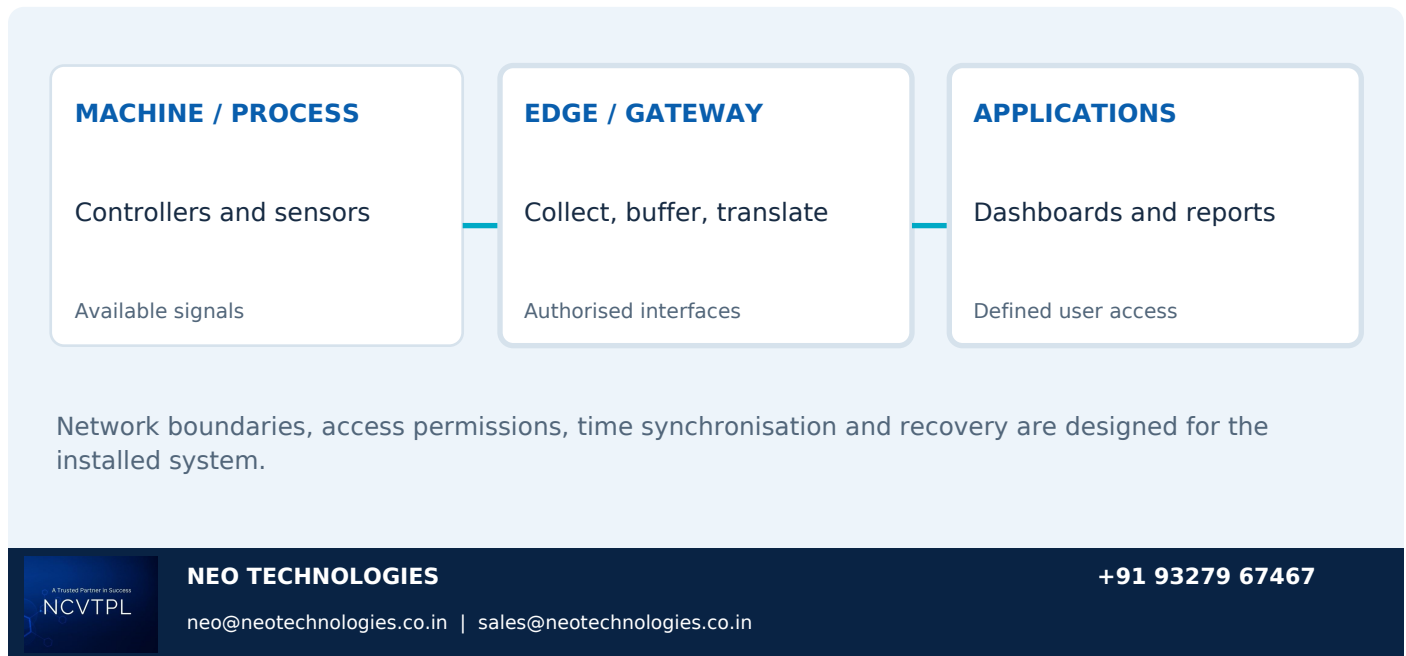
Illustrative engineering image.

Scope	Hardware, services & deliverables
Production information	Machine states, production counts, downtime reasons, shift records and agreed OEE calculations.
Traceability & records	Product/lot/serial relationships, recipes, batch history, inspection results and electronic records.
Software integration	Historian, SQL databases, dashboards, reports and selected ERP/MIS interfaces through approved connectors or APIs.
Implementation services	Data definition, mapping, validation checks, user roles, retention, backup and operator-facing workflows.

Start with the decisions users need to make. Data ownership, definitions, licences, access and software maintenance are part of the scope.

IIoT, embedded systems & remote data

Bridge installed equipment to monitoring applications and purpose-built digital functions.



Scope	Hardware, services & deliverables
Edge hardware	Industrial gateways, embedded controllers, data loggers, industrial PCs and supported connectivity modules.
Software & interfaces	Protocol mapping, MQTT/OPC UA data exchange, dashboards, alarms and application-specific firmware.
Connected applications	Machine-health information, remote service records, asset status and utility/energy monitoring.
Lifecycle engineering	Provisioning, access control, offline behaviour, updates, backups and support responsibilities agreed for deployment.

Embedded development, specialist electronics, remote updates and cloud services are specified individually. Operational commands require authorised and validated interfaces.

Mobile hardware, control & diagnostics

A complete interface scope for machinery operating on wheels, tracks and specialised vehicle bodies.



Hardware group	Package content
Controllers / I/O / HMI	Mobile PLC, ECU/VCU, remote I/O, rugged displays, joysticks, pedals and keypads.
Sensors / hydraulics	Pressure, angle, position, speed and temperature; valve drivers and approved pump/actuator interfaces.
Networks / harnesses	CAN, SAE J1939, CANopen, gateways, sealed connectors, power distribution and service connectors.
Telematics / assistance	GNSS, loggers, cellular gateways, cameras and operator-warning interfaces.
Engineering services	Functional specifications, PGN/SPN or signal mapping, software, harness drawings, diagnostics and machine commissioning.

ISOBUS functions, electric/hybrid interfaces and automatic functions are qualified individually. OEM access, component compatibility and machine-level validation determine the final scope.

Construction, resources & field machinery

Application packages for equipment working in demanding environments.



Vertical / machinery	Relevant hardware	Practical engineering offer
Construction / earthmoving	Mobile controller, HMI, joystick, J1939, pressure/position sensing	Attachment controls, operating information and service diagnostics.
Road / concrete machinery	I/O, engine interfaces, pump/valve drivers, speed/flow sensing	Paver, sprayer, mixer and pump-function integration.
Mining / quarry / drilling	Controller, rugged I/O, sensors, logger and gateway	Process sequences, machine monitoring and fault investigation.
Agriculture / implements	Implement ECU, sensors, terminal, GNSS and compatible interfaces	Implement functions, field data and ISOBUS scope where supported.
Forestry / biomass / recycling	Hydraulic interfaces, speed/load sensing, HMI and telematics	Feed and processing functions, condition trends and service records.

A practical first offer is a defined subsystem: monitoring display, attachment controller, diagnostic package or data gateway. OEM access and machine validation are agreed before control changes.

Special vehicles, lifting & logistics

Coordinated interfaces for vehicle bodies, service equipment and mobile plant.

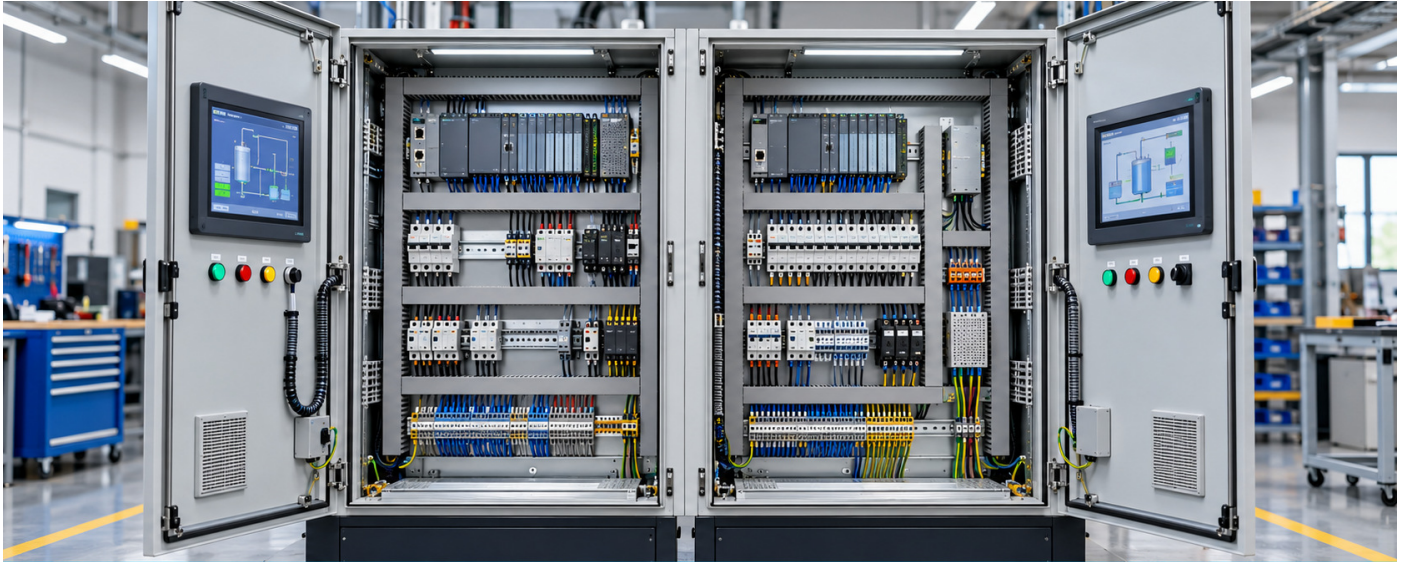


Vertical / machinery	Relevant hardware	Practical engineering offer
Municipal / sanitation	Controller, I/O, tank/pressure sensors, HMI and harness	Sweeper, refuse, sewer-jetting and suction-body functions.
Firefighting / emergency	Pump instrumentation, display, engine interface and body I/O	Tank/pump information, equipment status and service records.
Material handling / lifting	HMI, joystick, angle/position sensors and approved control interfaces	Forklift, telehandler, crane and platform diagnostics or defined subsystems.
Airports / ports / logistics	Controller, sensors, camera interfaces, gateway and drives	Ground-support equipment, conveyors and fleet information.
Bodies / pumps / mobile plant	Engine controller, pressure/level sensing, I/O and sealed wiring	Hook loader, tipper, service body, pump/compressor and power-pack packages.

Emergency functions, stability/load limiting, steering/braking, personnel lifting and automatic intervention require a separately validated specialist scope.

Retrofits, migration & spare parts

Plan upgrades around existing equipment, available records and a controlled transition.



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Scope	Hardware, services & deliverables
Installed-system review	Document hardware, wiring, operating functions, available software, network interfaces and known failure points.
Migration engineering	Manual/relay-to-PLC conversion, controller/HMI replacement, drive upgrades and revised communication interfaces.
Spares & compatibility	Identify replacement parts, review interchangeability and plan critical spares around actual installed models.
Controlled changeover	Backups, offline development, test plans, shutdown coordination, rollback arrangements and operator handover.

Changes are assessed for their effect on the whole machine or process. Supply scope, provenance, warranty, licences and obsolete-part alternatives are confirmed in the quotation.

AMC, troubleshooting & technical support

Support service teams with a defined maintenance and fault-resolution scope.



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Scope	Hardware, services & deliverables
Corrective support	PLC/HMI faults, drive alarms, I/O problems, sensor issues, communication failures and application diagnostics.
Preventive maintenance	Panel inspection, backup checks, connection review, parameter records and agreed equipment-service schedules.
Measurement support	Loop verification, calibration coordination, instrument checks and process-signal investigation.
Service arrangements	Remote sessions, planned site visits, commissioning assistance, training and annual maintenance contracts.

Coverage, response times, working hours, travel, spares and exclusions are specified for each service agreement.

FAT, commissioning & validation support

Verify the defined functions and leave the operating team with a usable engineering record.



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Scope	Hardware, services & deliverables
Factory acceptance	Drawing and BOM checks, wiring verification, simulated I/O, sequence tests and software demonstrations.
Site acceptance	Installation checks, instrument-loop verification, parameter setup, controlled trials and witnessed acceptance tests.
Quality documentation	Test procedures, results, deviations, version records, backups and customer-approved handover documents.
Qualification support	Requirements traceability, audit-trail configuration and equipment/computer-system validation support where included.

Regulated validation, risk assessment and safety acceptance remain subject to the agreed customer quality system and specialist responsibilities. No blanket certification is implied.

Multi-platform engineering & supply

Select around the application, customer standard, lifecycle and available service expertise.

Portfolio area	Selection & engineering scope
PLC / HMI / drives	Siemens, Rockwell Automation / Allen-Bradley, Mitsubishi Electric, Schneider Electric, ABB, Omron, Delta and Panasonic.
Process / supervision	Customer-selected SCADA/DCS platforms; examples in earlier company material include WinCC, AVEVA/Wonderware, FactoryTalk, Honeywell and Emerson.
Motion / mobile control	Application-specific servo and motion platforms; mobile examples include ifm ecomatmobile, DSEControl and Parker IQAN.
Electrical / measurement	Switchgear, motors, power supplies, sensors, instrumentation, connectors and communication hardware selected against the specification.
Engineering deliverables	SLD, GA, BOM, control schematics, I/O and terminal schedules, network layouts, software/configuration records and test documents.

DOCUMENTED SELECTION

Agree model, rating, environment, interfaces, licensing, product lifecycle, warranty and spare-part strategy before ordering.

FLEXIBLE ENGAGEMENT

Product supply, design support, programming assignments, commissioning and technical-team augmentation can be scoped separately.

Manufacturer names are platform examples, not claims of current authorised distributorship or partnership. Suitability and availability are confirmed per project.

Build skills around real applications

Practical programmes for engineers, maintenance teams, OEMs, institutions and learners.



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Learning area	Training scope
Automation	PLC/PAC, HMI, SCADA, DCS, AC/DC drives, servo and industrial networking.
Electrical & instrumentation	Panel design/CAD, switchgear, wiring, sensors, analog signals, instruments and troubleshooting.
Connected & mobile systems	Embedded systems, IoT, robotics, CAN/J1939, CANopen and off-highway hardware interfaces.
Workshops & kits	Machine/process application workshops, customised demonstration rigs, corporate programmes and training kits.

Delivery can include centre-based, live online, institutional and corporate sessions. Agree the learning outcomes, equipment access, platform, practical exercises and duration before booking.

Explore programmes: ncvttraining.com

NCVT Training: programmes

NCVT: Off-highway programme

neo@neotechnologies.co.in

sales@neotechnologies.co.in

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From enquiry to a supported system

Start with the equipment, the operating problem and the result the customer needs.

Stage	Information / output
1 Understand	Application, process/machine details, installed platforms, drawings, problem statement and quantity.
2 Define	Functional scope, hardware, interfaces, responsibilities, licences, acceptance criteria and quotation.
3 Engineer	Architecture, drawings, software, configuration, component selection and coordinated implementation.
4 Verify	Bench/FAT checks, installation review, commissioning, witnessed tests and deviation closure.
5 Handover	As-built records, backups, operating guidance, training, spares and the agreed support arrangement.

Specialist scopes: safety-related control, personnel lifting, automatic vehicle movement, high-voltage systems and regulated validation are defined with the customer, OEM and appropriate specialists.

COMPANY INFORMATION & REFERENCES

[Neo Technologies: company portfolio](#)

[Neo Technologies: PLC panels](#)

[Neo Technologies: OEM machines](#)

[Neo Technologies: System integration](#)

[Neo Technologies: Off-highway systems](#)

[Neo Technologies: About us](#)

[Neo Technologies: LT / HT panels](#)

[Neo Technologies: Process automation](#)

[Neo Technologies: SCADA / DCS / MES](#)

[NCVT Training: programmes](#)

Consolidated from the NCVT Automation & Controls company brochures supplied for 2020 and 2025, the current company websites and the confirmed company/contact details. Website content reviewed 23 October 2026.

Visuals are AI-generated engineering illustrations and functional diagrams. They are not photographs of completed projects or exact manufacturer catalogue products. The quotation defines the final scope and responsibilities.

Let us discuss your next project.

Machines, processes, electrical systems, connected data and technical capability.



NEO TECHNOLOGIES

Neo Creative Vision Technologies
Private Limited

FOUNDER

Niketansingh K Lakum (Neo)

PHONE / WHATSAPP

+91 93279 67467

EMAIL

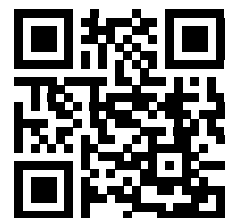
neo@neotechnologies.co.in

sales@neotechnologies.co.in

WEBSITES

neotechnologies.co.in

Training: **ncvttraining.com**



WhatsApp enquiry

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