

BROCHURE · AUTOMATION AND INSTRUMENTATION

Automation and instrumentation: from order to a finished solution

Full-cycle automation of industrial processes in our own facilities by our own specialists: design, control cabinets, in-house SCADA, installation, start-up and service.

Full cycle

FROM REQUEST TO SERVICE

In-house SCADA

RUNNING AT PLANTS

Own facilities

AND OWN SPECIALISTS

Automation we do ourselves

D.ENERGY provides a full cycle of industrial process automation services: from system design to commissioning and ongoing technical support. We accompany the project at every stage, from the technical specification to the stable operation of the finished system.

Main advantage

Everything, from design to the control cabinet, program and start-up, is done by us, in our own facilities and by our own specialists. That is why we deliver quickly, control deadlines, progress and quality at every stage, and take responsibility for the result.

Why a full cycle under one roof

1

Fast

Design, cabinets, programming, installation and start-up are done by one team in our own facilities: no waiting for subcontractors and no time lost on hand-offs.

2

Under control

We run every stage and deadline ourselves: we see the real-time status of the work instead of waiting for third-party reports.

3

Quality built in

Cabinets and the system are tested before shipment, not on the customer's site, so start-up is predictable.

4

Single responsibility

From order to finished solution one contractor is responsible for the result; we solve issues without looking for who is to blame among subcontractors.

How it works

1

Request and survey

We collect input data: process scheme, equipment list, control and safety requirements; if needed we visit the site.

2

Design and documentation

Control system architecture, block diagrams, cable route plans, selection of equipment from proven manufacturers, electrical diagrams, cabinet layouts and specifications.

3

Control cabinets

We design and assemble control cabinets in our own production from standard, quality components, with full testing before shipment.

4

Programming

PLC control algorithms, interlocks and emergency modes; HMI and SCADA with a mimic of your exact line.

5

Installation

Electrical installation of power and signal cables, sensors, actuators and cabinets in line with standards and safety requirements.

6

Commissioning

Complete on-site setup, checking of all units, parameter optimisation and testing under real conditions. We hand over a ready-to-run solution.

7

Training and documents

Instructions and user manuals, personnel training, so the solution runs without our daily presence.

8

Service

Remote diagnostics over secure VPN, software updates, phone consultations and support after start-up.

Our services

1

Automation system design

Technical solutions for automating production processes: control architecture, block diagrams, cable routes, equipment selection and documentation.

2

PLC programming

Programs for industrial controllers of various manufacturers: control algorithms, protections, emergency modes and equipment interaction.

3

HMI and SCADA development

Operator panels and dispatching: process visualisation, event and alarm logs, trends of process parameters.

4

Control cabinet manufacturing

Design and assembly of electrical cabinets to standards, quality components, full testing before shipment.

5

Electrical installation

Installation of power and signal cables, sensors, actuators and control cabinets.

6

Technical documentation

Electrical diagrams, cabinet layouts, specifications, external connection diagrams, instructions and user manuals.

7

Commissioning

Complete setup directly on site and handover of a ready-to-run solution to the customer.

8

Control system upgrades

Replacing obsolete controllers, operator panels and electrical equipment with modern analogues without replacing the machinery.



Service support

Remote diagnostics, software updates and consultations after the system is put into operation.

In-house SCADA system

For every process line we develop a SCADA system for the customer's specific task. It is D.ENERGY's own solution, already running at plants. A single dispatching system replaces monitoring each unit separately.

- **Custom SCADA/HMI screen:** a mimic of your exact line, not a generic template: every machine, sensor and drive is shown as it stands on the shop floor.
- **PLC algorithms and protections:** interlocks and emergency modes that rule out dangerous operating modes.
- **Parameter history and trends:** temperatures, pressures, flows and running hours for analysing regimes and planning maintenance.
- **Centralised alarms:** the operator sees a parameter deviation immediately on the dispatcher screen.
- **Remote diagnostics:** the service team can connect to the system over a secure channel and help without a site visit.

Where it is used

- **Oil and fat industry:** press lines, extractors, toasters, roasters, pumps and coolers as one controlled system.
- **Industrial energy:** boiler plants, steam-generating systems and heat exchange circuits integrated with the main line.
- **Processing plants:** dozens of machines that must work in sync: presses, extractors, toasters, pumps, conveyors, boiler houses.
- **Existing plants:** upgrading control systems without replacing the machinery.

What we need to start

For a calculation and quotation, please send:

What to send	Why
Process scheme or description	to understand what to automate and which regimes are needed
List of equipment and drives	to calculate I/O count and select controllers and cabinets
Existing automation (if any)	to assess what to keep and what to upgrade
Dispatching requirements	SCADA level, archives, alerts, remote access
Site conditions and deadlines	installation constraints, safety requirements, desired start-up date

Important

Scope and timing are defined after reviewing the technical specification and agreed with D.ENERGY engineers.

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This material is for information only. Final configuration and parameters are defined by the technical specification and agreed with D.ENERGY engineers. Data as of 08.10.2026.