

VENEMA

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ENGINEERED FOR RELIABILITY



AUTOMATION SYSTEM CATALOGUE

URIP GUMULYA
solution for your fluid management

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VENEMA — Engineering Control with Precision

Company Overview

Founded in **2010**, **VENEMA** is a trusted Indonesian brand under **PT. Urip Gumulya**, specializing in **industrial automation systems, SCADA integration, and PLC-based control solutions**.

Beyond control panel manufacturing, **VENEMA** has developed comprehensive capabilities in system integration, software development, and supervisory control — delivering complete automation platforms that connect field equipment with centralized monitoring and data management.

With a dedicated engineering team and manufacturing facility in Indonesia, **VENEMA** provides end-to-end automation solutions for **industrial process control, water infrastructure, and critical utility systems across the country and abroad**.

Over the years, **VENEMA** has become a **recognized name in automation engineering**, combining local expertise with international technology standards. Every system we deliver reflects our commitment to operational reliability, system flexibility, and long-term value.

Vision & Mission

Vision:

To be Indonesia's leading provider of integrated automation and SCADA solutions, enabling industries to operate more efficiently, safely, and intelligently through advanced control and monitoring technology.

Mission:

- Deliver complete automation systems — from field instrumentation to centralized supervision — tailored to each client's operational requirements.
- Continuously innovate through software development, system integration, and data-driven engineering.
- Guarantee system reliability, cybersecurity, and operational continuity in every project.
- Support Indonesia's industrial transformation through smart automation and digital infrastructure.

Our Capabilities

System Design & Engineering

Our automation engineering team develops comprehensive system architectures — from PLC control logic and SCADA configuration to network design and communication protocols. Every project begins with detailed functional specifications, P&ID review, and I/O mapping to ensure seamless integration between field equipment and supervisory systems.

Software & SCADA Development

VENEMA develops custom SCADA applications and HMI interfaces tailored to each client's operational workflow. Our in-house software team creates intuitive dashboards, alarm management systems, historical trending, and reporting functions — all designed for clarity, usability, and real-time decision support.

PLC Programming & Integration

Our control engineers program and configure PLC systems for real-time process control, equipment protection, and automated sequencing. We ensure proper integration with field instruments, variable speed drives, and communication networks using industry-standard protocols including Modbus, OPC, and industrial Ethernet.

Panel Manufacturing & Assembly

Our manufacturing facility produces PLC control panels, MCC assemblies, and local HMI stations with full-cycle fabrication, wiring, and quality inspection. We also manufacture our VENEMA DOL, Star-Delta, and VFD/VSD Inverter Control Panels that can be integrated with PLC & SCADA systems for complete automation solutions. Every panel follows IEC and SNI standards and is factory-tested before delivery.

Commissioning & Site Integration

VENEMA provides complete on-site commissioning services — including system startup, loop testing, parameter tuning, and integration verification. We ensure all components work together as a unified system before handover.

Training & Support

We deliver operator training programs covering system operation, alarm response, and basic troubleshooting. Our technical support team provides ongoing assistance, remote diagnostics, and preventive maintenance services for long-term system reliability

After-Sales Service

Our support team provides ongoing technical assistance, preventive maintenance, and system optimization services. We offer remote diagnostics, on-site repairs, spare parts supply, and 24/7 emergency response to ensure your automation systems operate at peak performance throughout their lifecycle.

Manufacturing & Assembly

Our manufacturing facility is equipped for full-cycle fabrication, wiring, and quality inspection. From precision cutting and busbar assembly to modular enclosure fabrication, every process follows **IEC and SNI standards**.



Our 20,000 m² manufacturing facility at PT. Urip Gumulya provides complete in-house production capabilities — from precision fabrication and panel assembly to system testing and quality inspection — ensuring consistent quality and reliable delivery for projects of any scale.

Testing & Quality Assurance

All VENEMA control panels undergo **thorough functionality, insulation, and load tests** prior to delivery. Each unit is verified to meet performance and safety benchmarks for long-term dependability.



After-Sales Service

Our support team provides **on-site commissioning, maintenance, and operator training** to ensure lasting reliability and customer satisfaction.



Why Choose VENEMA

Advantage	Description
End-to-End Integration	Complete solutions from field instrumentation through PLC control to SCADA supervision — all from a single provider.
In-House Software Development	Custom SCADA applications, HMI design, and PLC programming developed by our own engineering team.
Multi-Station Expertise	Proven experience integrating geographically distributed sites into centralized monitoring platforms.
Open Architecture	Systems designed with standard protocols (Modbus, OPC) for flexibility and future expansion.
Local Manufacturing & Support	Indonesian-based engineering, manufacturing, and service teams ensuring fast response and local expertise.
Long-Term Partnership	Ongoing technical support, system upgrades, and preventive maintenance services throughout system lifecycle.
Data-Driven Operations	Historical logging, trend analysis, and reporting tools that support operational optimization and compliance.

Industries We Serve

- **Water & Wastewater** Pump station automation, WTP/WWTP process control, multi-site SCADA integration, and water quality monitoring systems.
- **Industrial Process Control** Production line automation, batch processing, material handling, and real-time process monitoring for manufacturing facilities.
- **Oil & Gas** Pipeline monitoring, tank farm management, compressor station control, and remote terminal unit (RTU) integration.
- **Power & Energy** Substation automation, generator synchronization, power distribution monitoring, and energy management systems.
- **Building & Facility Management** HVAC control, fire pump systems, BMS integration, and centralized building monitoring platforms.
- **Agriculture & Irrigation** Automated irrigation networks, fertigation control, greenhouse automation, and remote field monitoring

Commitment to Quality

Every **VENEMA** automation system reflects our dedication to engineering excellence, system reliability, and operational intelligence.

We don't just deliver equipment — we deliver integrated solutions that help our clients operate more efficiently, respond faster to changing conditions, and make better decisions through real-time data and visibility.

As we expand our automation capabilities across Indonesia and beyond, our focus remains on innovation, technical integrity, and building long-term partnerships with clients who demand dependable, future-ready systems.

Our Automation Project Approach

1. Consultation & Requirements

Understanding operational goals and system requirements

2. System Design

Architecture development, I/O mapping, and functional specification

3. Software Development

SCADA configuration, HMI design, and PLC programming

4. Panel Manufacturing

Control panel fabrication and factory acceptance testing

5. Installation & Commissioning

On-site integration, testing, and system startup

6. Training & Handover

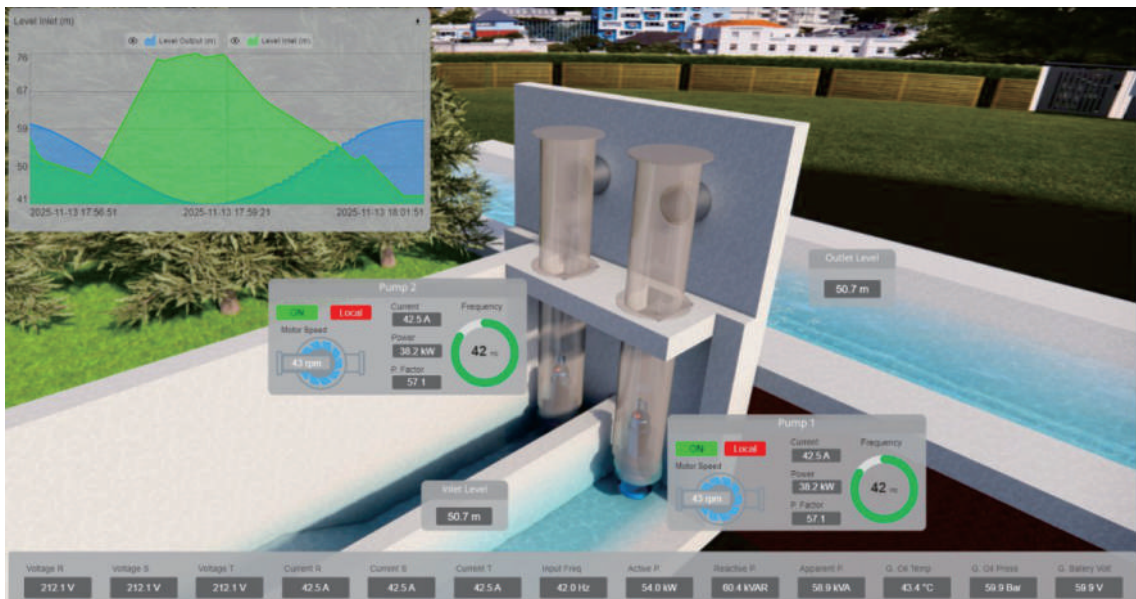
Operator training and documentation delivery

7. Ongoing Support

Remote monitoring, maintenance, and system optimization

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VENEMA Automation Systems

Introduction

Integrated SCADA & PLC Solutions for Industrial Automation

VENEMA Control delivers integrated automation systems for industrial process control, utility infrastructure, and critical operations.

Our solutions combine **field instrumentation, PLC-based control, SCADA supervision, and operator interfaces** into a unified architecture designed for reliability, flexibility, and long-term operation across diverse industrial applications.

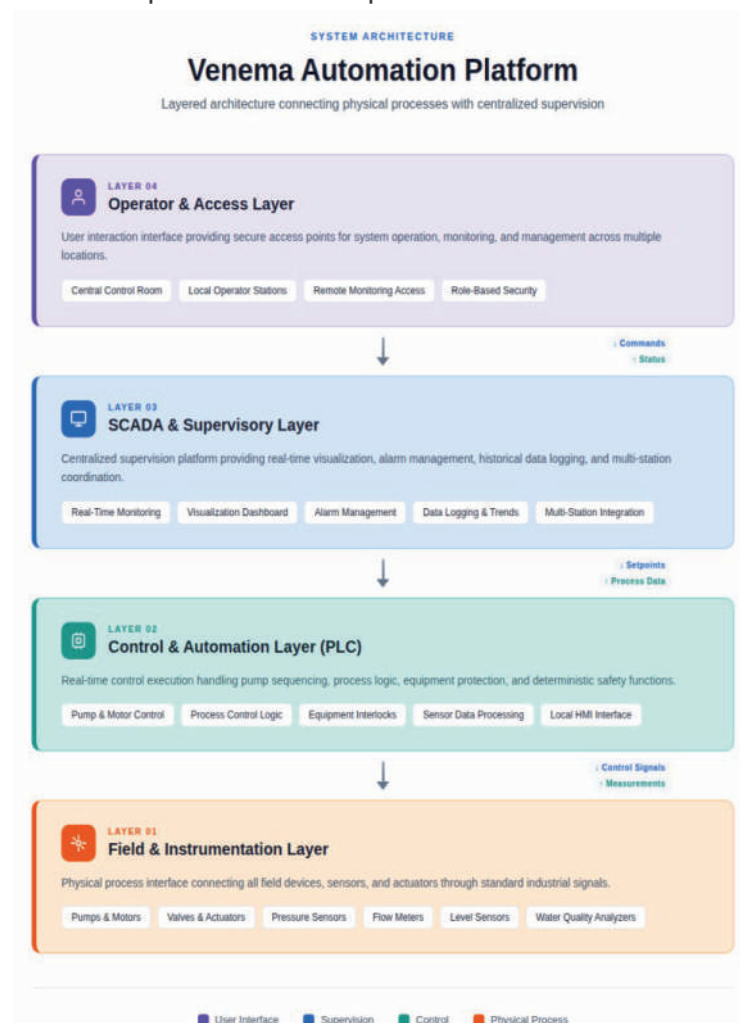
1. VENEMA Automation Platform

System Overview

The Venema Automation Platform is a layered system architecture that connects physical processes with centralized supervision and operational decision-making.

It is designed to support:

- Reliable real-time control
- Centralized monitoring and supervision
- Flexible system expansion
- Long-term maintainability



Platform Architecture

•Field & Instrumentation Layer

- This layer represents the physical process and provides all real-world data.

Typical Devices

- Pumps and motors
- Valves and actuators
- Pressure sensors
- Flow meters
- Level sensors
- Turbidity sensors
- pH sensors
- Chlorine sensors
- Auxiliary and future instrumentation

All devices are integrated using **standard industrial signals**.

Control & Automation Layer (PLC)

The PLC layer executes real-time control logic and system protections.

Core Responsibilities

- Pump and motor control
- Process control logic
- Equipment interlocks and protections
- Sensor data processing
- Local automation decisions
- Local HMI panels may be used for on-site operation and maintenance.

SCADA & Supervisory Layer

The SCADA layer provides centralized system supervision.

Core Function

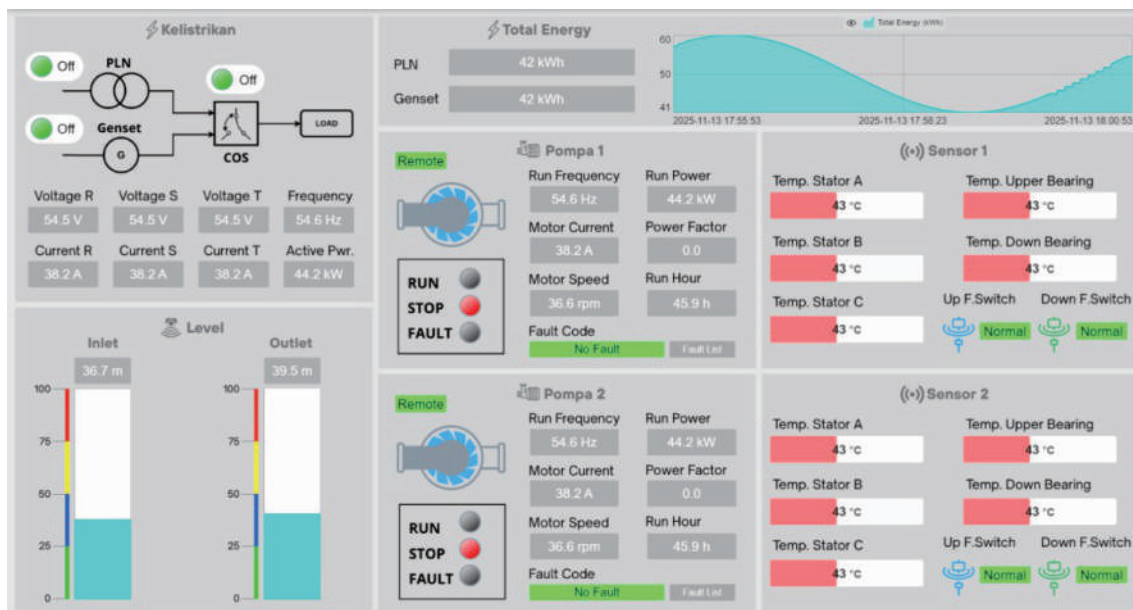
- Monitoring and visualization
- Centralized control
- Alarm and event management
- Historical data logging and trends
- Multi-station system integration

Operator & Access Layer

This layer defines how users interact with the system.

Access Point

- Central control rooms
- Local operator stations
- Secure remote monitoring access

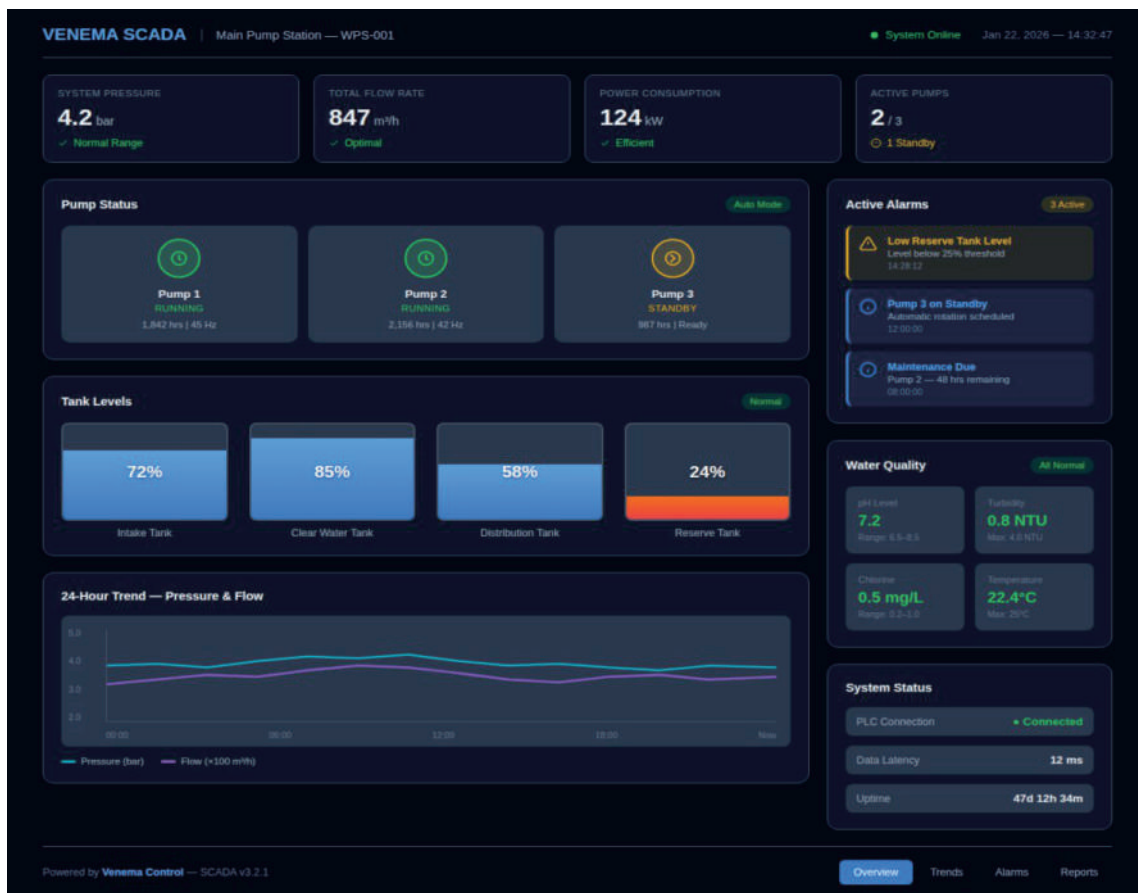


2. SCADA Systems

Central Monitoring, Control & Data Management

Venema Control designs and integrates **SCADA systems** that provide complete supervisory visibility across industrial operations and critical infrastructure.

SCADA connects automation systems, field equipment, and operators into a **single operational platform** — enabling real-time monitoring, centralized control, and data-driven decision making.



System Architecture

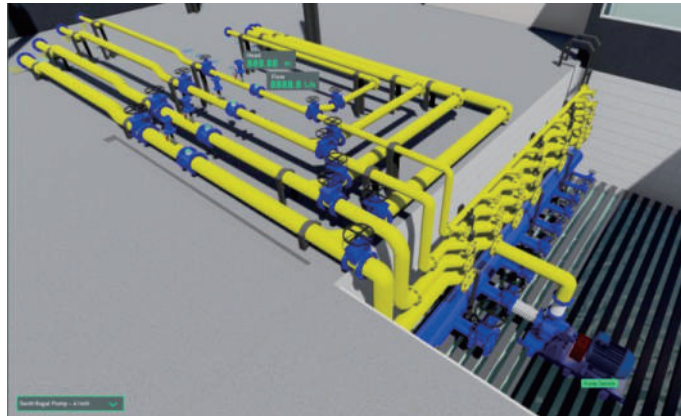
Venema SCADA systems are built on a modular and scalable architecture, ensuring adaptability to project size and future requirements.

2.1 Monitoring & Visualization

The SCADA system provides real-time visualization of process values and equipment status

Monitored parameters may include

- Pump status (on/off/fault)
- Flow rate
- Tank and reservoir levels
- Pressure readings
- Power consumption
- Equipment alarms
- Temperature
- Humidity
- Water gate position



Additional parameters can be added based on **project-specific or future operational needs**.

2.2 Control & Automation

SCADA allows operators to supervise and control the automation system

Typical control functions

- Pump start / stop
- Automatic and manual operation modes
- Setpoint adjustment (pressure, level, flow, current, etc.)
- Pump sequencing and duty/standby logic
- System override and emergency functions

Control logic is executed at the PLC level to ensure **safe and deterministic operation**.

2.3 Alarm & Event Management

SCADA systems continuously monitor operating conditions and generate **alarms and events**.

Typical alarms

- High / low pressure
- High / low fluid levels
- Water quality parameters outside limits
- Pump or motor faults
- Sensor failure or signal loss
- Power or communication failure

Alarm thresholds, priorities, and handling logic can be configured to match **operational and safety requirements**.

2.4 Data Logging & Trend Analysis

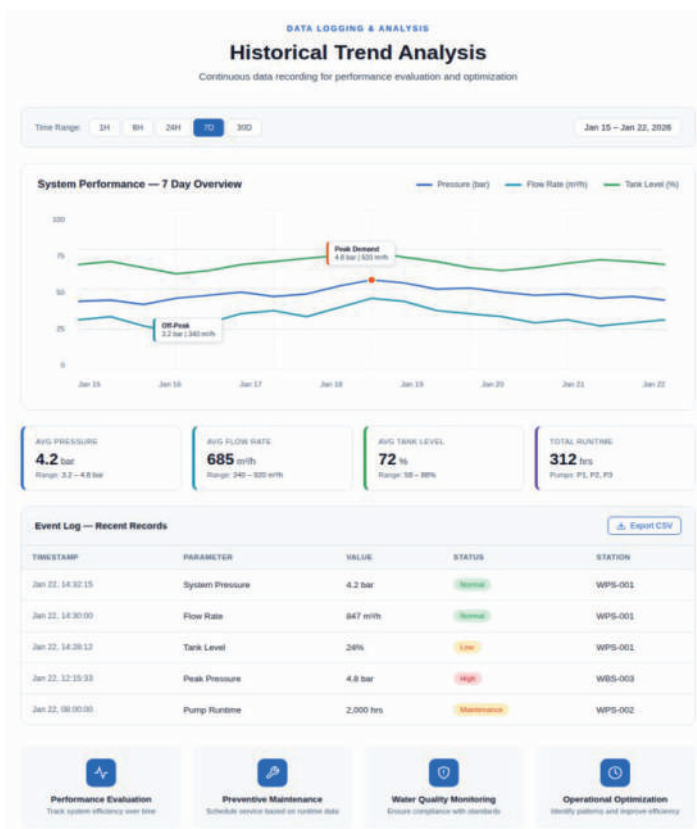
SCADA systems automatically record historical data for **analysis and optimization**.

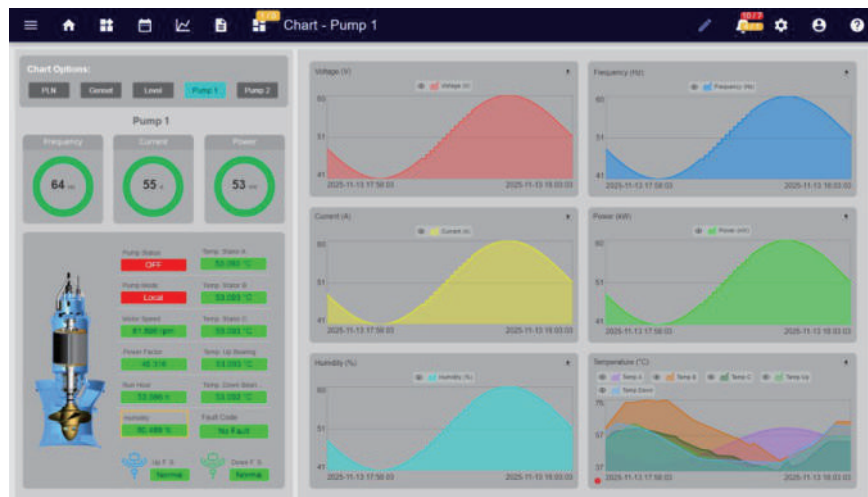
Logged data:

- Sensor measurements
- Equipment operating hours
- Alarm and event history
- System performance data

Historical trends support:

- Performance evaluation
- Preventive maintenance
- Water quality monitoring
- Operational optimization



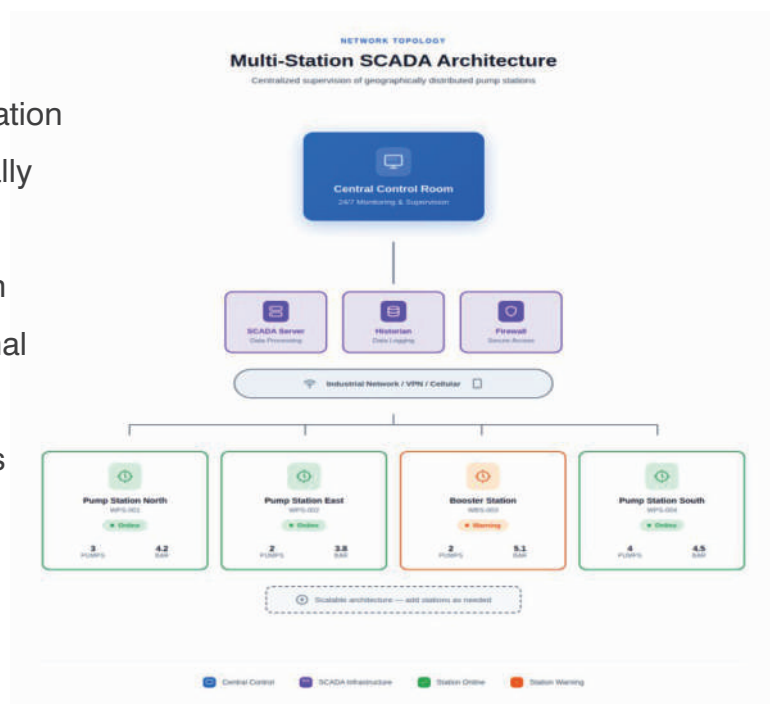


2.5 Multi-Station & Remote Monitoring

Venema SCADA systems support **centralized supervision of multiple sites**.

Capabilities

- Central control room operation
- Monitoring of geographically distributed pump stations
- Secure remote supervision
- Reduced on-site operational requirements
- System architecture allows **future expansion** to additional stations.



3. PLC & Automation Systems

Real-Time Control Layer

Venema PLC systems form the **real-time control core** of the automation platform. They execute control logic, manage field devices, and provide reliable data to the SCADA supervisory layer.

PLC System Function

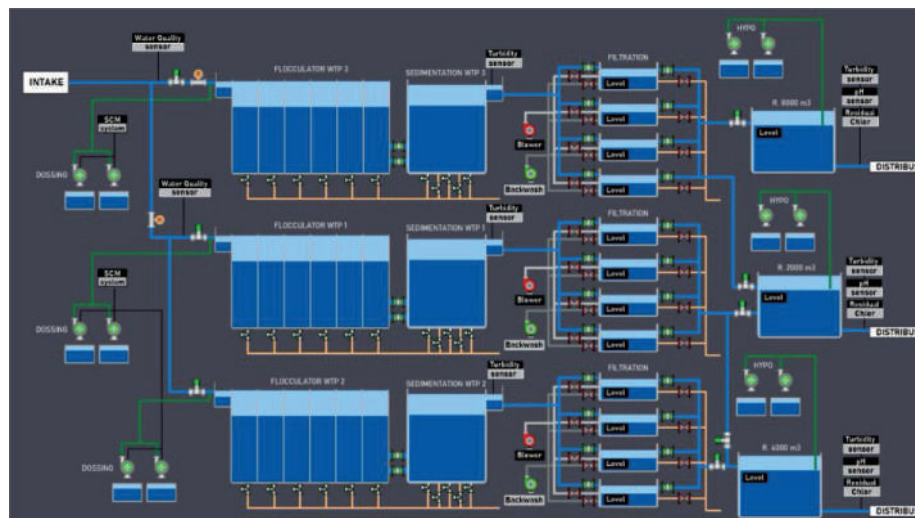
Pump & Motor Control

- Start / stop sequencing
- Duty / standby operation
- Lead-lag control
- Equipment protection and interlocks

Process Control

- Pressure-based control
- Level-based control
- Flow-based control
- Water quality-based control (turbidity, pH, chlorine)

Control strategies are **customized to site conditions and operating philosophy**.



Sensor & Instrumentation Integration

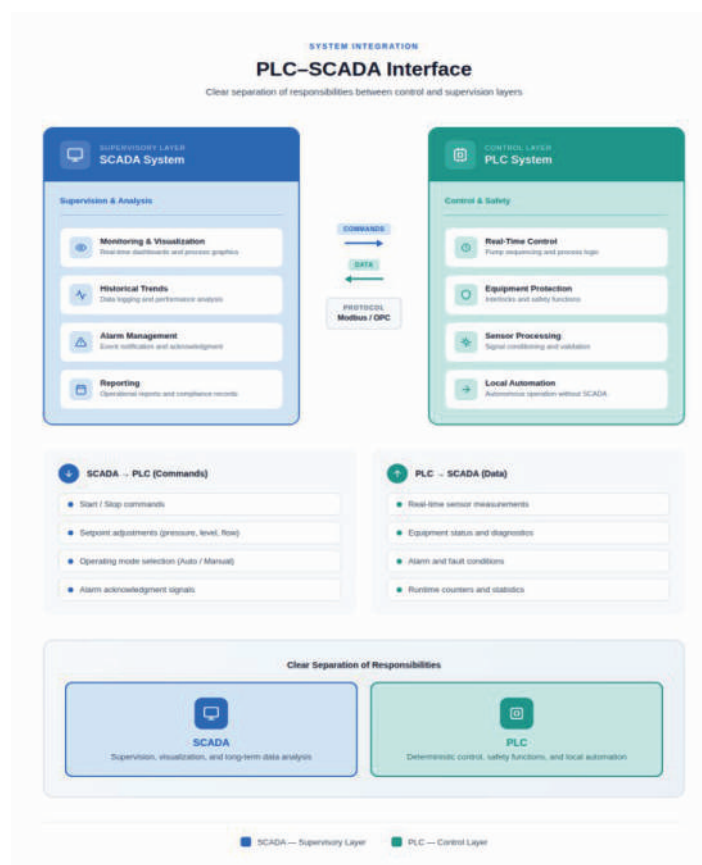
PLC systems interface with:

- Pressure transmitters
- Flow meters
- Level sensors
- Turbidity sensors
- pH and chlorine analyzers
- Auxiliary and future instrumentation

Local HMI Operation

Local HMI panels provide:

- On-site monitoring
- Manual and automatic operation selection
- Local alarm indication
- Maintenance and commissioning support



PLC-SCADA Interface

PLC systems communicate seamlessly with SCADA, providing:

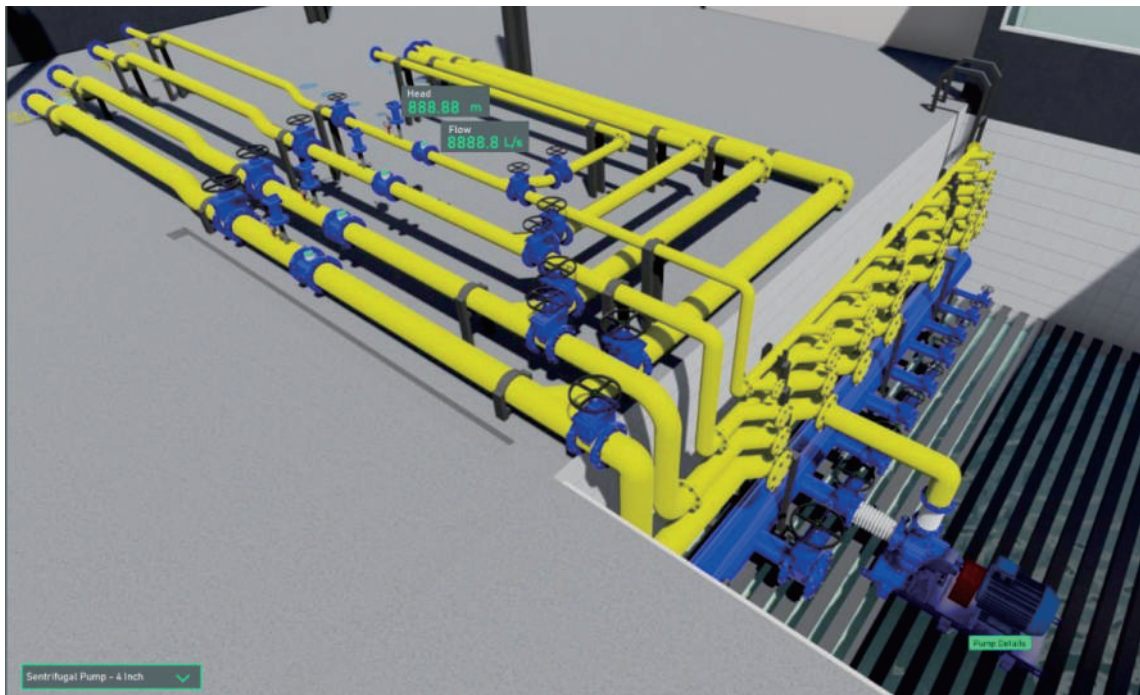
- Real-time process data
- Equipment status and alarms
- Execution of control commands
- Historical data transfer

This ensures a **clear separation of responsibilities**:

- PLC —> control and safety
- SCADA —> supervision and analysis

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SYSTEM FLEXIBILITY & FUTURE EXPANSION

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System Flexibility & Future Expansion

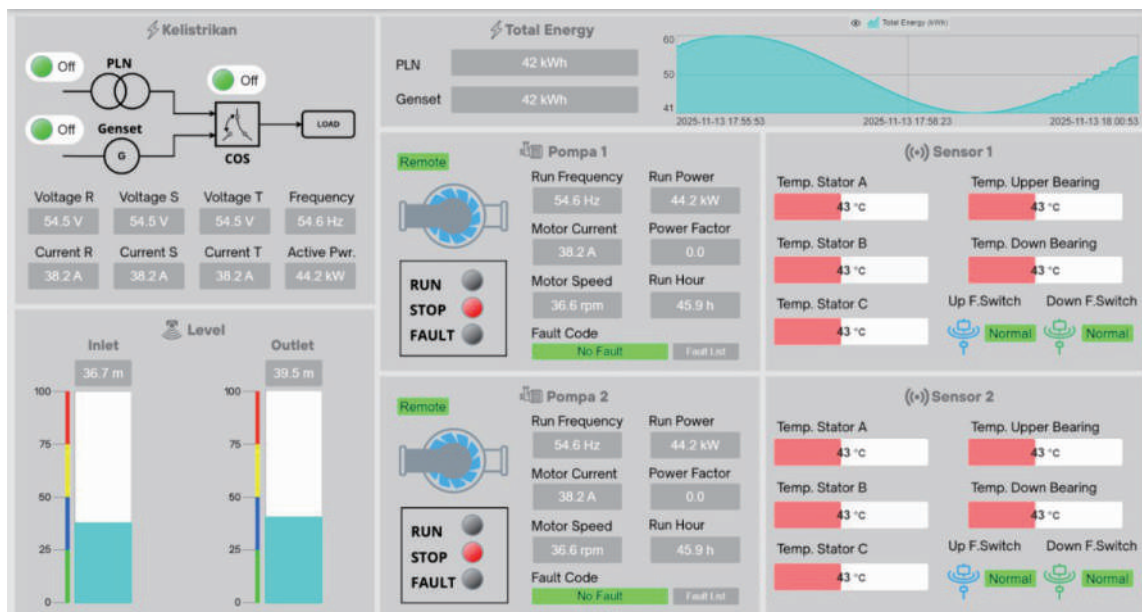
Venema automation systems are designed with a **modular and scalable structure**, allowing:

- Integration of additional equipment
- Expansion to new pump stations
- Addition of new sensors or control functions
- Upgrades without fundamental redesign

This approach protects long-term investment and supports evolving operational needs.

Why VENEMA Automation Systems

- Designed for industrial process control and utility applications
- Integrated PLC and SCADA architecture
- Flexible and scalable system design
- Open protocols for easy integration
- Long-term maintainability and support
- Data logging and analytics capabilities



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