POWER NEXUS

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Local and Secure Management and Automation System for Smart Devices.

→ PowerNexus enables monitoring, automation, and deterministic power sequencing across heterogeneous, multi-vendor power-dependent systems.

CAPABILITY	PLC (Industrial)	SMART HOME HUB	IOT DEVICE LAYER	POWERNEXUS
Predictable & Safe Operation	✓	✗	✗	✓
Offline /Air-Gapped Operation	✓	✗	!	✓
Multi-Device System Control	!	!	✗	✓
Multi-Vendor Support	✗	!	✗	✓
Configurable Automation	✗	✓	!	✓

Why PowerNexus ?

Centralized Power Control

PowerNexus centralizes power dependency management and sequencing to ensure correct startup, operation, and shutdown behavior.

On-Premise Operation

PowerNexus runs all control logic locally at the edge, is cloud-optional, and operates independent of external connectivity to ensure continuity and data sovereignty.

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Unified Control for Diverse Systems

PowerNexus brings multi-vendor systems together under a single control interface, enabling centralized management without vendor dependency or infrastructure replacement.

Monitoring and Automated Control

PowerNexus provides real-time visibility into system status and energy usage, executing automated, condition-based power sequences to keep infrastructure safe and predictable.

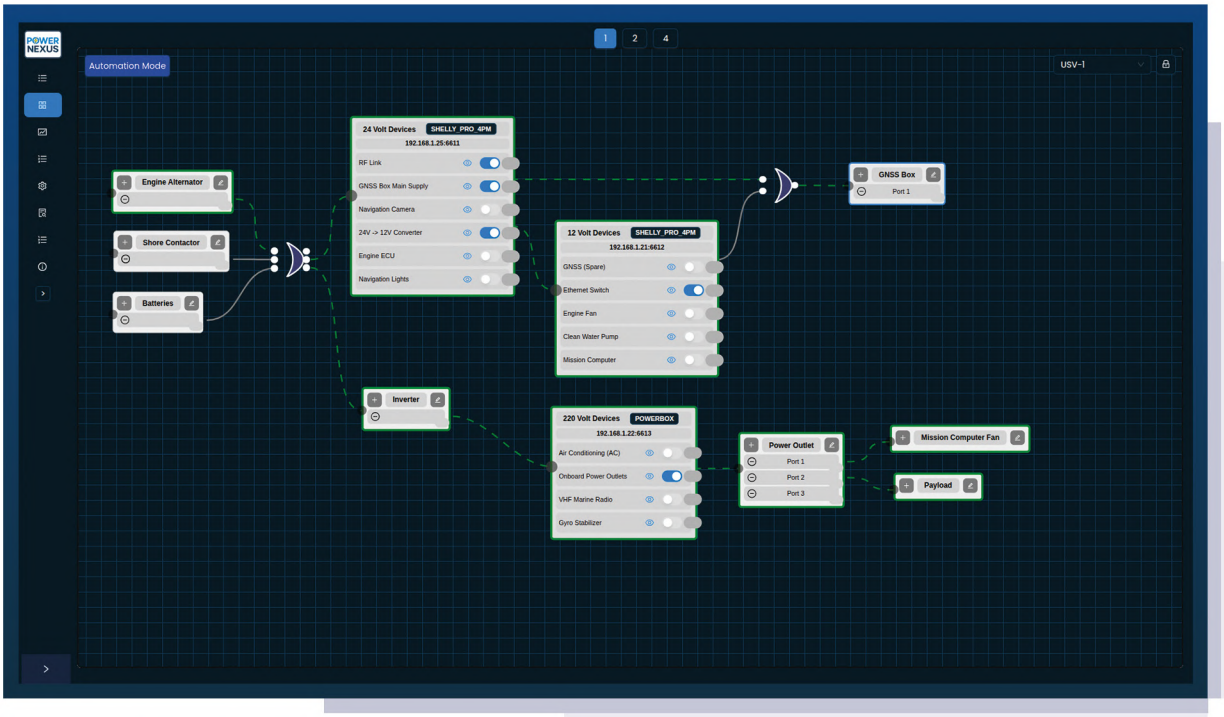
USE CASES

CONTEXT	WHAT POWERNEXUS DOES
Tactical Shelter	Automated local startup & shutdown.
Data Center	Real-time rack health & optimization.
Remote Sites	Remote monitoring & intervention.

CONTEXT	WHAT POWERNEXUS DOES
Integration Laboratories	Repeatable sequencing for test setups.
Unmanned System	Coordinated payload & motor sequencing.
Industrial Facility	Shift-based machine automation.

https://akdogan.tech
info@akdogan.tech
+90 312 514 16 61

akdogan tech



Features

Interface & Live Control

- Access everything through a single web interface
- See combined energy metrics, device status, and alerts in one view.
- Build smart automation and map system dependencies using a drag-and-drop editor.
- Modify system structure and behavior safely while operations continue running.

Power Management

- Controls how power and connected systems start, operate, and shut down as a system
- Define precise turn on and off orders to replace manual switching.
- Create repeatable scenarios and execute predefined rules and sequences
- Apply the same validated control logic across multiple sites or setups instantly.

Local Logic

- Runs locally without internet dependency, with optional cloud connectivity.
- Works with existing smart and non-smart devices from different vendors.
- Designed for continuous, unattended operation.
- Isolates operational faults to stop problems from spreading to other systems.

Operational Flow

Install

Device Configuration

Rule Configuration

Operational

akdogan tech
https://akdogan.tech
info@akdogan.tech
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