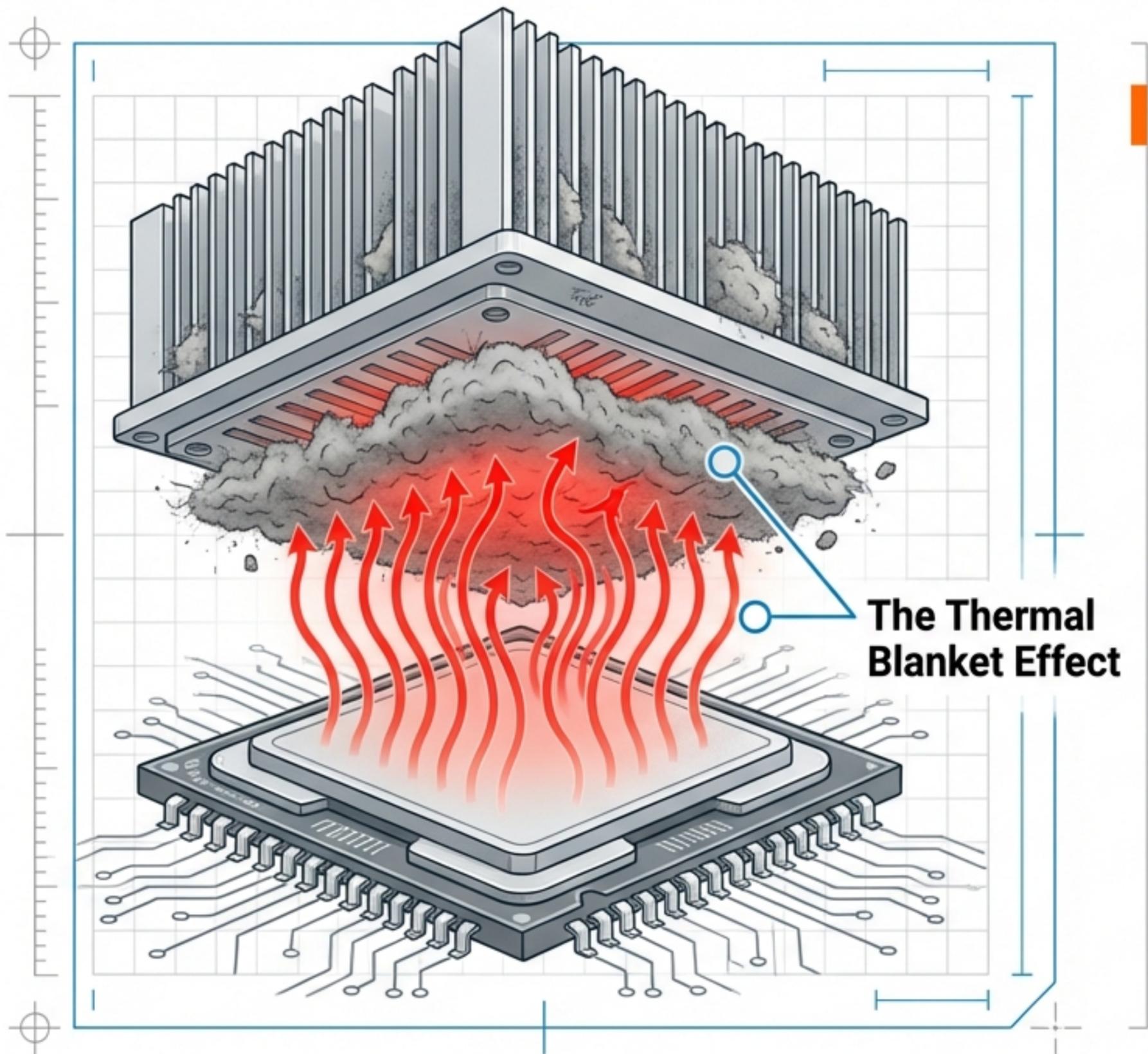


The Future of Infrastructure Maintenance: Live-Line Solutions

Enhancing Reliability, Efficiency, and Safety without Downtime.





Contamination is the Silent Killer of Critical Infrastructure.



The Insulation Trap:

Dust and oil create an insulating layer, trapping heat inside components.



The Conductive Path:

Static buildup and metal dust cause micro-short circuits and signal interference.



The Consequence:

Increased internal resistance, skyrocketing energy bills, and accelerated material fatigue.

Transforming Maintenance from a Disruptive Cost to a Strategic Advantage.

The Old Paradigm (Reactive/Planned)

- ✗ Requires Power Shutdowns (Revenue Loss)
- ✗ Reactive Repairs After Failure
- ✗ High Labor & Opportunity Costs
- ✗ Disrupted Operations

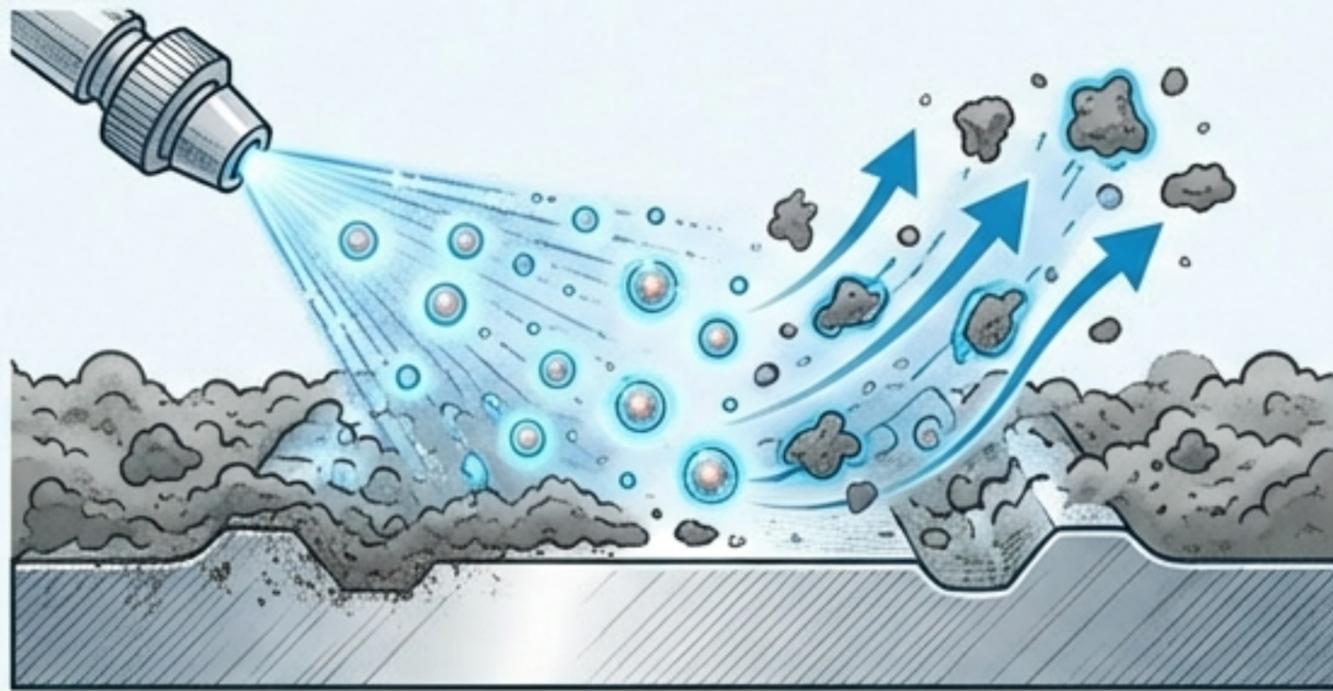
The EcoElectroCare Standard (Proactive/Live)

- ✓ Zero Downtime (Live Maintenance)
- ✓ Proactive Protection Before Failure
- ✓ Extended Asset Life (+20%)
- ✓ Continuous Revenue Generation

**“Stop choosing between safety and uptime.
The new standard delivers both.”**

The "Wash & Coat" Philosophy: A Two-Step Restoration.

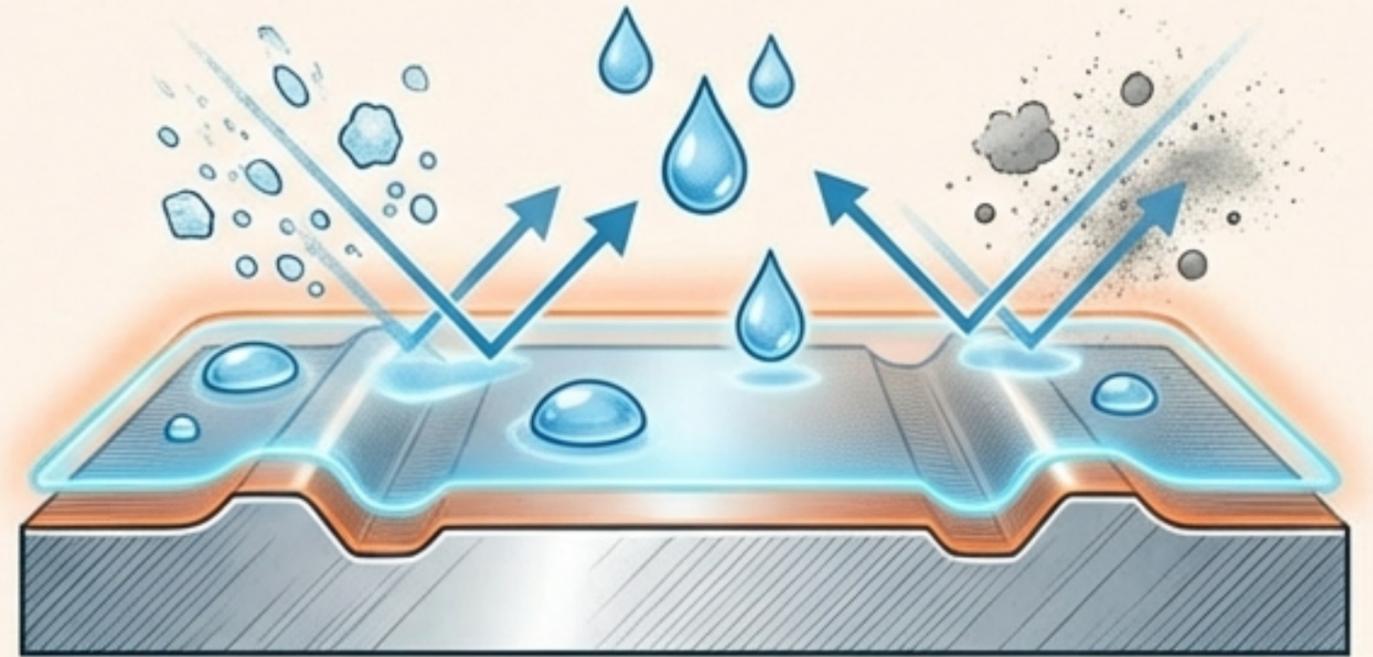
Step 1: The Wash (Nano-Cleaning)



Action: Physical Encapsulation. Nano-molecules penetrate deep grime, wrapping contaminants and lifting them off via liquid pressure.

Result: Surface restored to factory-level cleanliness.

Step 2: The Coat (Nano-Protection)



Action: Invisible Shielding. Cures to form a dense, transparent nano-film.

Result: 8–12 months of protection against moisture, salt spray, and dust. Electrically insulating.

The Physics of Safety: Why It's Safe to 'Wash' Live Electronics.

It looks like water, but acts like an insulator.



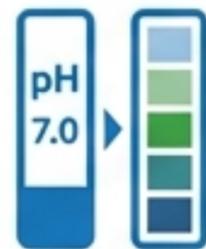
High Insulation

Dielectric strength
withstands up to 500kV.
No short circuits or
arcing.



Fire Safety

Non-flammable / Flame
retardant formulations.
(C-EL59-C offers No
Flash Point).

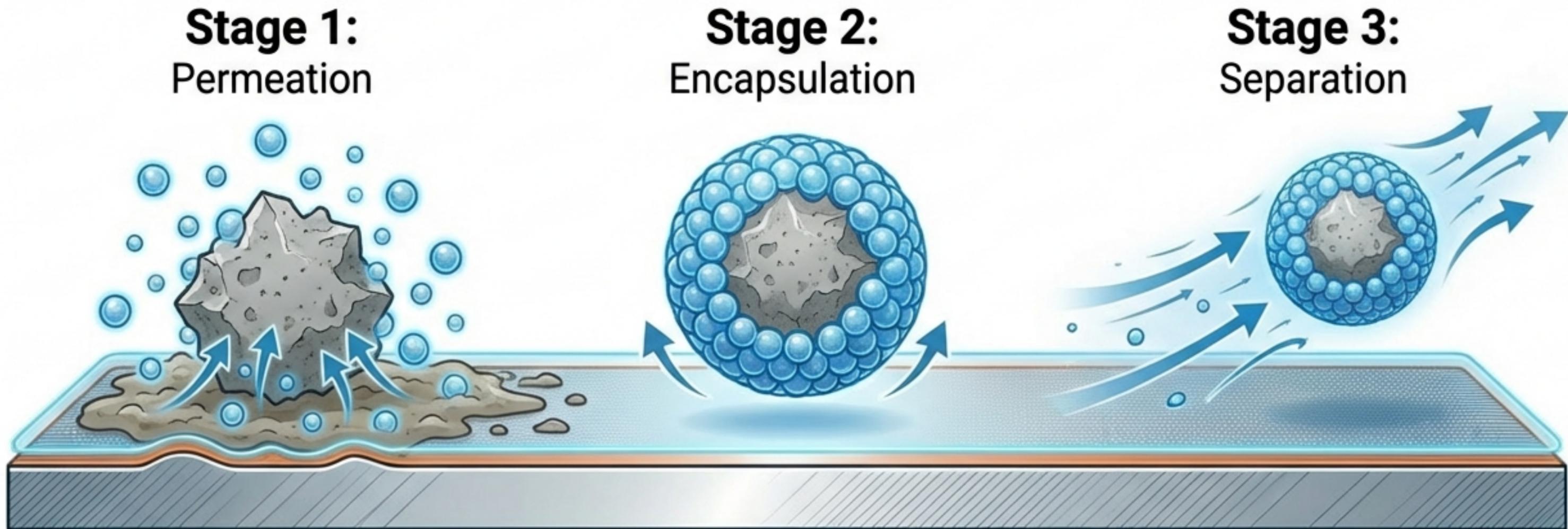


Material Safety

pH Neutral.
Non-corrosive to sensitive
metals, plastics, or rubber
seals.



Deep Dive: The Nanotech Encapsulation Mechanism



A **physical process**, not a chemical reaction. It lifts dirt without dissolving the component.

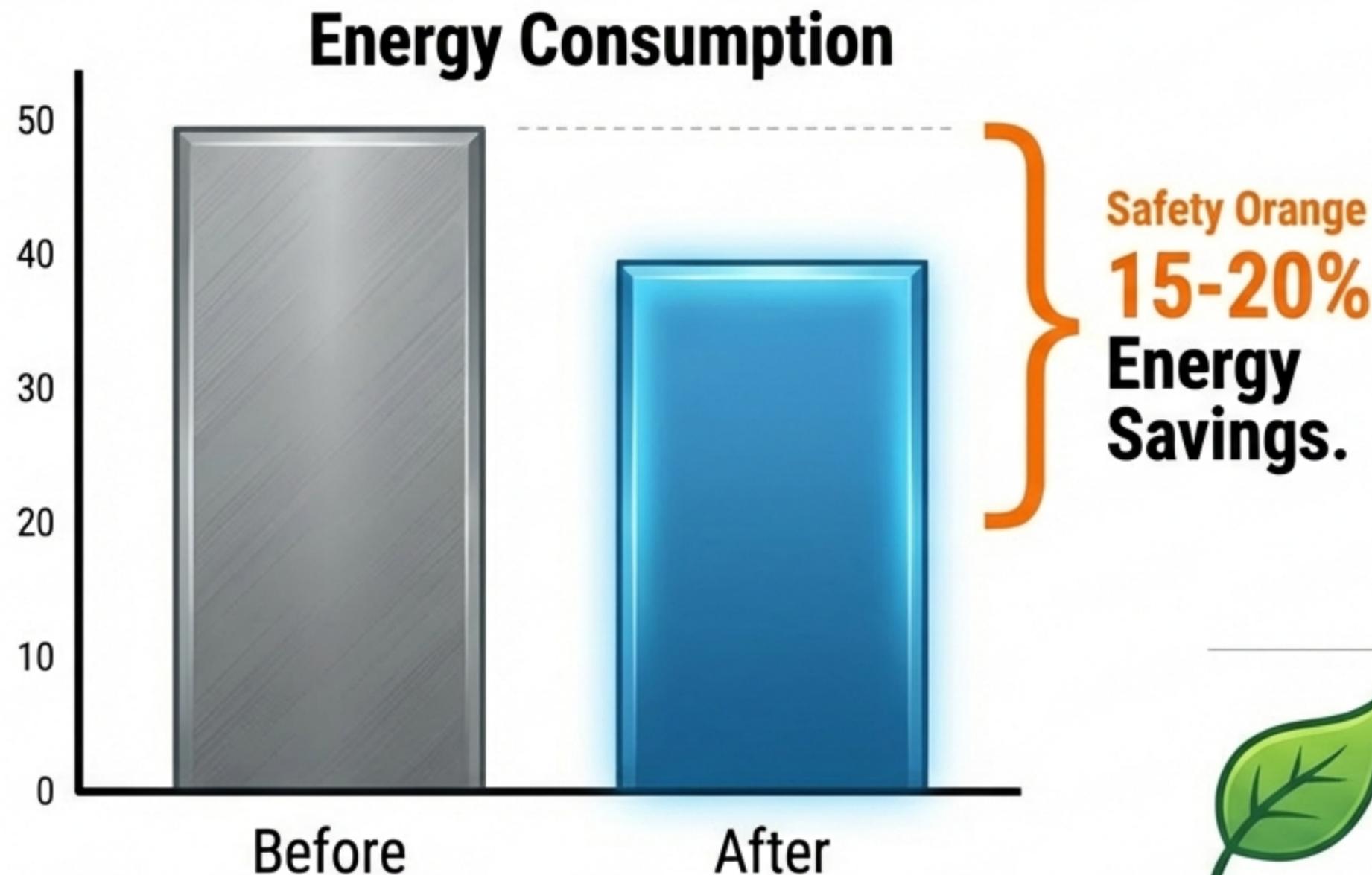
The '5A' Safety Guarantee System.



Critical Safety Red Lines.

- Warning:** FX-193 Anti-rust Lubricant is for OFFLINE use only.
- Warning:** Protective Coating on >400V equipment requires distance protocols or de-energization.
- Warning:** 500kV equipment requires specific C-EL99 series products.

Energy Efficiency & The 'Dual Carbon' Goal.



Removing the “thermal blanket” lowers internal resistance and cooling load.

Direct Impact:
Lower utility bills =
Reduced Carbon Footprint.



**Supports Carbon Peaking
and Carbon Neutrality goals.**

Extending Asset Life: Don't Replace, Rejuvenate.

**-40% to
-60%**

Operating
Temperature

+20%

Equipment
Lifespan

**-60% to
-70%**

Failure Rate

-30%

Fire Risk

“Eliminating the root cause of aging—heat and corrosion.”

Application: Data Centers & Telecommunications.

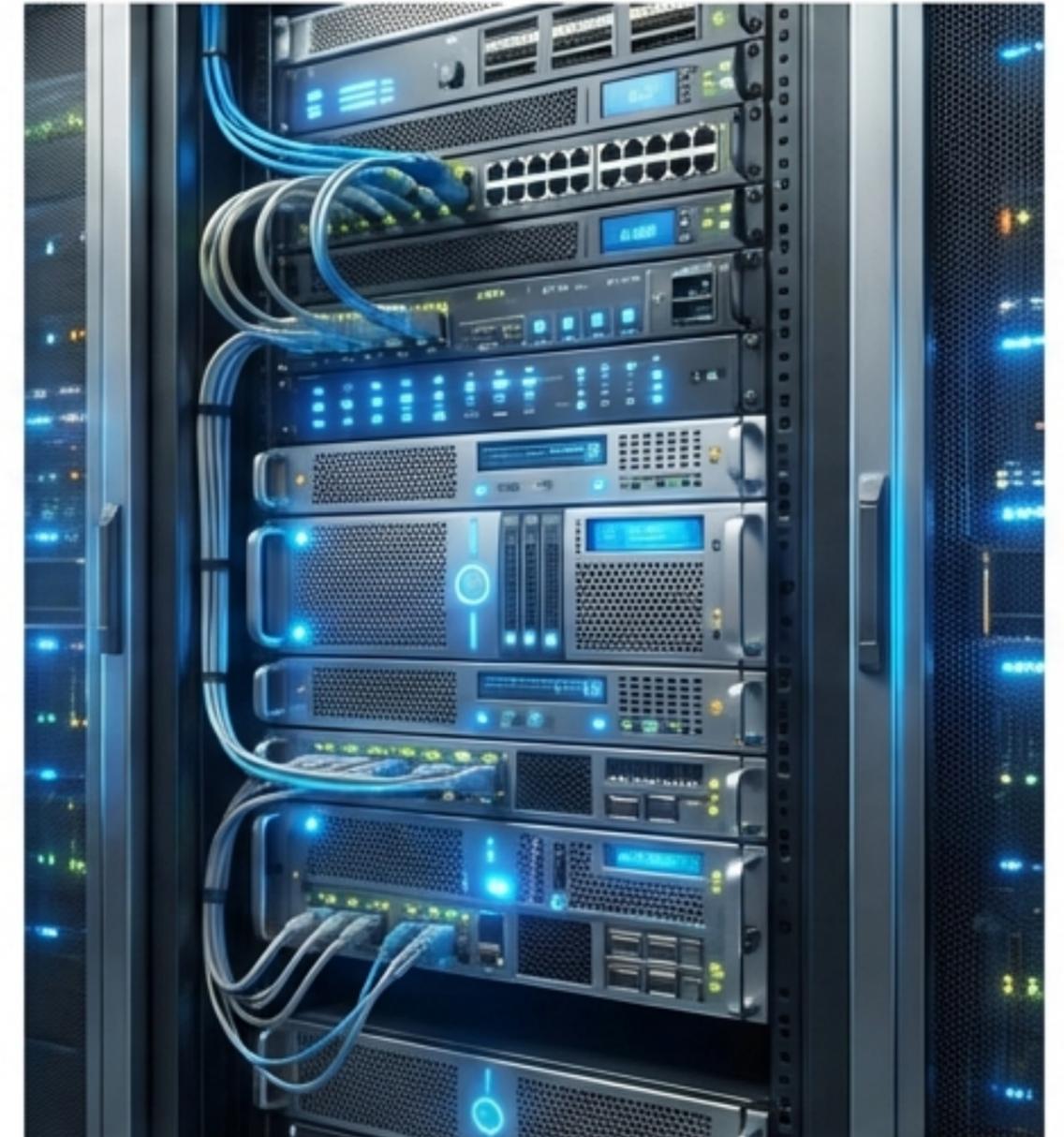
Focus: Signal Integrity and Precision.

Target Gear: Servers, Routers, Firewalls, Base Stations, Disk Arrays.

Key Benefit: Eliminating static/signal interference and cooling server racks effectively.

Product Spotlight:

- **C-NE29 (Cleaning):** Ensures signal stability.
- **P-NE58 (Protection):** Nano-film shield for 8-12 months.
- **P-NE28:** 'Three-Proof' agent for harsh circuit board environments.



Application: High Voltage Power Grids (Up to 500kV).

Focus: Preventing Catastrophic Failure.

Target Gear: Transformers, Generators, Circuit Breakers, Insulators.

Key Benefit: Preventing "Pollution Flashover" caused by dirty insulators in wet conditions.

Product Spotlight:

- **C-EL99 Series:** Specialized for 500kV safety.
- **C-EL09-220:** For **Composite Insulators** (restores hydrophobicity).



Application: Industrial Automation & Harsh Environments.

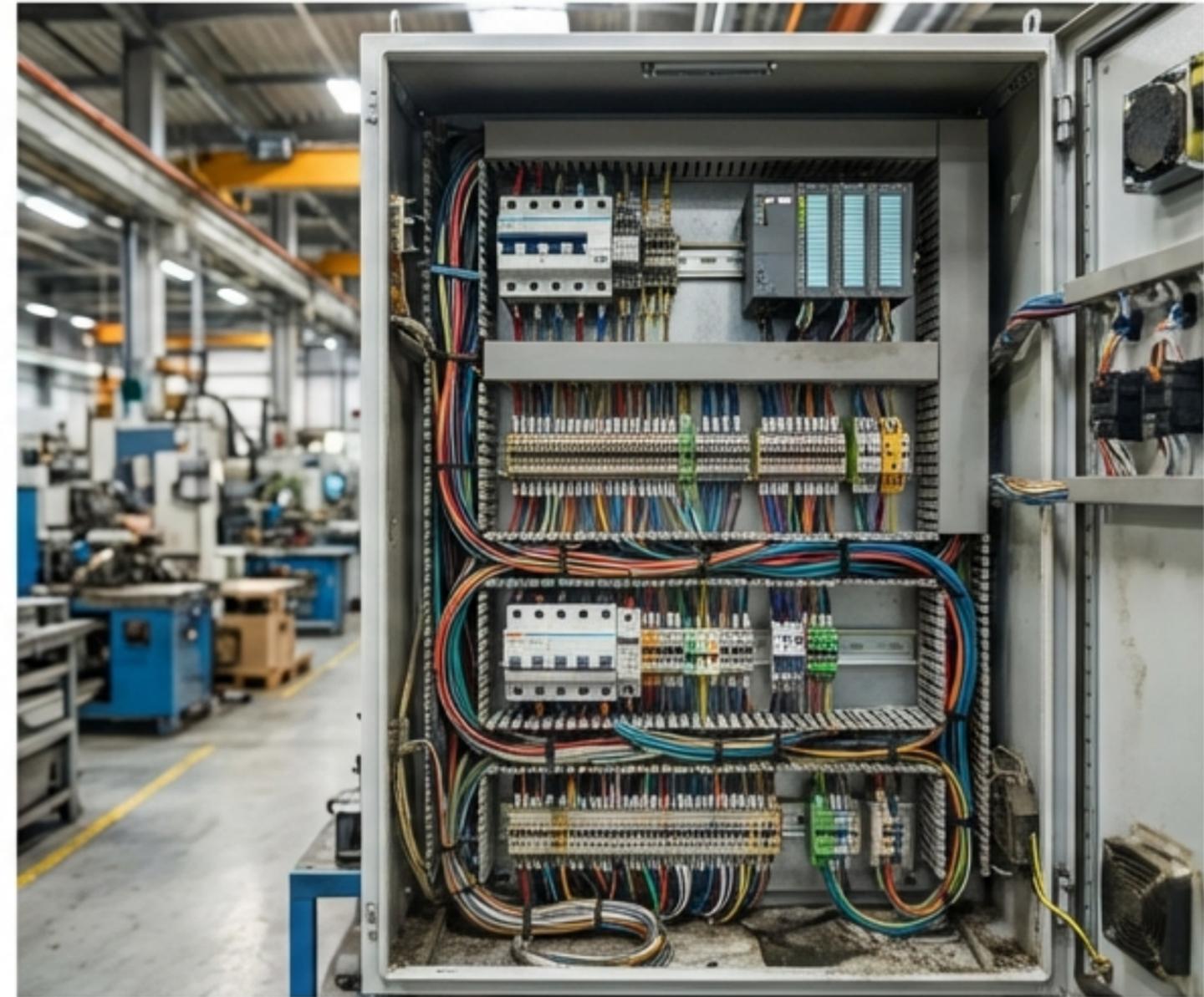
Focus: Reliability in Dirty Conditions.

Target Gear: PLC Control Cabinets, DCS, Factory Robotics, Switchgear (10kV and below).

Key Challenge: High ambient temperatures and complex grime.

Product Spotlight:

- **C-EL59-C:** No Flash Point formulation.
- **Benefit:** Maximum fire safety in hot, enclosed, or complex machinery spaces.

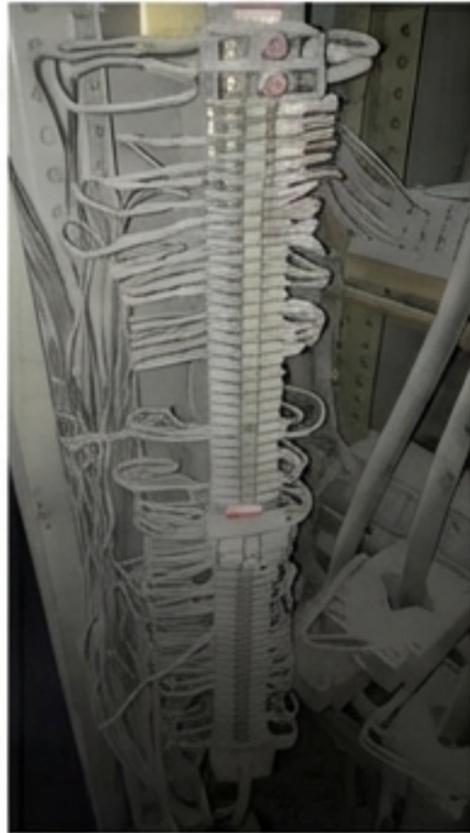


Product Selection Matrix.

Voltage / Environment	Target Equipment	Recommended Product
High Voltage (Up to 500kV)	Grid Infrastructure, Transformers	C-EL99 Series
Composite Insulators	Transmission Lines (220kV)	C-EL09-220
Precision Electronics	Data Centers, Telecom, Servers	C-NE29 (Wash) / P-NE58 (Coat)
Industrial / Low Voltage	Factory Floors, 10kV Cabinets	C-EL59 Series
Offline Maintenance	Tools, Rust Removal	FX-193 (DO NOT USE LIVE)

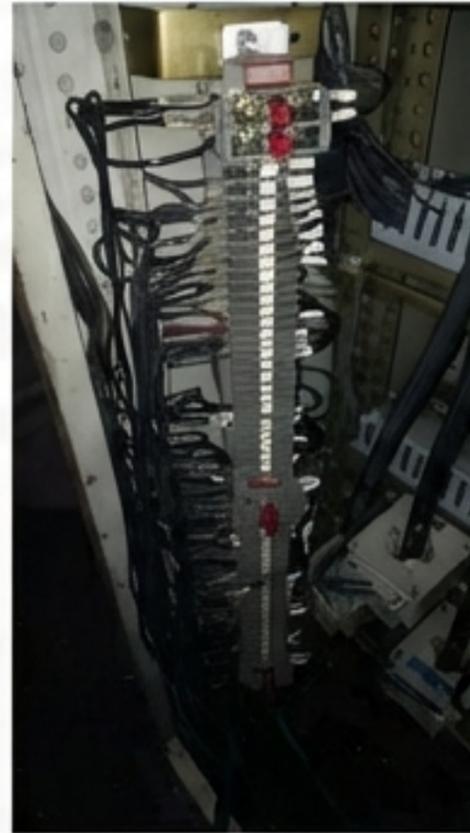
Restoring Factory Conditions in Live Environments.

Before



Before

After



After

Before



Before

After



After

Before



Before

After



After

All results achieved without powering down equipment.

A Strategic Necessity for Modern Infrastructure.



Safety.

5A Guarantee &
Non-flammable Chemistry.



Efficiency.

15-20% Energy Savings
& Zero Downtime.



Longevity.

+20% Life Extension.

Schedule a site assessment to calculate your potential energy savings and risk reduction profile.

Don't just repair. Prevent.