



KNIGHT ELECTRIC

• LICENSED ELECTRICAL & HVAC CONTRACTOR

Industrial Plant *Maintenance Portfolio*

Knight Electric Inc. delivers industrial-grade electrical maintenance, reliability engineering, and emergency response services designed for manufacturing plants that cannot afford unplanned downtime.

50+
YEARS
COMBINED
TRADE
EXPERIENCE

100%
SELF-
PERFORMED
CAPABILITY

Rapid
EMERGENCY
RESPONSE

Nationwide
LICENSED
COVERAGE

Electrical Reliability for Industrial Operations

Manufacturing facilities don't fail from construction problems. They fail from maintenance gaps, delayed response, and risk blind spots. Across automotive, chemical, food manufacturing, aluminum, distribution, and healthcare sectors, the pressures are converging: aging infrastructure, tightening regulations, skilled-labor shortages, and the relentless cost of unplanned downtime.

Knight Electric Inc. (Russellville, KY & Clarksville, TN) was built for this reality. We're not a commercial electrician who occasionally visits a plant — we're an industrial maintenance partner whose crews understand operational tempo, safety protocols, and production-first thinking.

We partner with plant managers and maintenance directors to reduce unplanned downtime, strengthen OSHA & NFPA 70E compliance, improve audit readiness, support shutdowns without disruption, and deliver rapid-response expertise when production is at risk.

This portfolio outlines our philosophy, capabilities, safety leadership, and engagement models — for executives who require a reliability partner, not just a service contract.

“We think like operators — not contractors. Every service call, every PM cycle, every shutdown task is evaluated through one lens: how does this protect production uptime and reduce plant risk?”

— ABOUT KNIGHT ELECTRIC

Authority & Regional Presence

Knight Electric Inc. is a family-owned electrical and HVAC contractor based in Russellville, KY with a branch in Clarksville, TN. We hold active electrical contractor and Master HVAC licenses, with DOT-certified operators, bonding capacity, and full insurance coverage.

Our industrial portfolio: fire alarm systems for the \$3.2B LG Chem EV Battery Plant, complete electrical for the Novelis Advanced Recycling Center (400,000 SF), the Q&B Foods (Kewpie) \$65M facility, and ongoing plant maintenance at Logan Aluminum — one of the region's largest industrial employers.

We maintain our own fleet — service trucks, boom lifts (up to 125 ft), bucket trucks, excavators, and trenchers — plus specialized tooling: wire pulling systems, cable tuggers, hydraulic benders, testing instruments, and portable power distribution. No third-party dependency.



Full-Scope Execution

Earthwork through energization under one contract — no hand-offs, no gaps.



Self-Performance

Own crews, own equipment, own schedule control. Zero subcontractor dependency.



Safety Culture

OSHA certified workforce, documented safety program, dedicated EHS Manager, field supervisor, and safety personnel on every active project.



Long-Term Partnerships

Trusted by LG Chem, Novelis, Airgas, Austin Peay, Logan Aluminum, and more.

— UNDERSTANDING YOUR REALITY

The Pain Points We Solve

Every capability we've built is a direct response to the operational challenges that keep plant leaders up at night.

01

Unplanned Downtime

Equipment failures during production runs cost six figures per hour. Reactive maintenance is a profit killer masquerading as cost savings.

We fix: PM programs + predictive monitoring

02

Aging Infrastructure

Switchgear from the 1990s, deteriorating feeders, obsolete panels — deferred maintenance compounds until it becomes a crisis.

We fix: Infrastructure assessments + upgrades

03

Safety Audit Exposure

OSHA citations, arc flash incidents, incomplete LOTO procedures — the liability is real and the penalties are escalating.

We fix: NFPA 70E + LOTO compliance programs

04

Skilled Labor Shortage

You can't hire industrial electricians fast enough — and when you do, retention is a constant battle against market demand.

We fix: On-call & retainer crew models

05

Emergency Response Gaps

When a transformer blows during a production run, your current contractor's answering machine doesn't reduce downtime.

We fix: Rapid response commitment

06

Documentation Deficiencies

Missing as-builts, outdated one-lines, no arc flash labels — invisible risk that becomes catastrophic during incidents.

We fix: Full documentation & reporting

— INDUSTRIAL MAINTENANCE PHILOSOPHY

We Don't Chase Symptoms. We Eliminate Root Causes.

Our maintenance philosophy is built on three pillars that separate reliability-focused contractors from reactive repair shops.

01

Predict Before It Fails

Every maintenance dollar should prevent ten dollars of unplanned failure. We implement condition-based monitoring, thermal imaging schedules, and trend analysis to identify degradation before it becomes disruption. Our PM programs are designed around equipment criticality rankings, not calendar convenience.

02

Control the Hazard, Not the Paperwork

Safety compliance is not a binder on a shelf. Our crews perform daily JHA/JSA reviews, maintain NFPA 70E arc flash awareness, and execute LOTO procedures as non-negotiable field practice — not administrative theater. We focus on Stuff That Can Kill You: stored energy, falls, utility strikes, and energized work.

03

Own the Outcome

We don't hand off problems to the next shift. Our crews are accountable from task start to documented completion. When something goes wrong, we own the truth, build a learning huddle instead of a blame session, and implement corrective action that sticks. This is what separates Level 3 execution from hourly labor.

CORE CAPABILITIES

Detailed Scope of Industrial Services

Every service listed below is delivered by Knight Electric crews, using Knight Electric equipment, under Knight Electric supervision. No subcontractors. No hand-offs. No excuses.



Power Distribution Systems

- Medium & low-voltage switchgear installation
- Transformer testing & replacement
- Panel board upgrades & modifications
- Bus duct systems & feeders
- Power factor correction
- Grounding & bonding verification



Industrial Equipment Wiring

- Motor control center (MCC) installation
- VFD installation & programming support
- Production line electrical tie-ins
- Conveyor & material handling wiring
- Equipment relocation & reconnection
- Industrial motor terminations



Fire Alarm & Life Safety

- Fire alarm system installation
- Notification appliance circuits
- Initiating device circuits
- Emergency lighting & egress
- Fire pump wiring
- Annual inspection support



Lighting & Controls

- High-bay LED retrofit programs
- Warehouse & production floor lighting
- Exterior & security lighting
- Lighting control systems
- Emergency backup lighting
- Energy efficiency audits



Civil & Underground

- Duct bank & conduit systems
- Direct-buried cable installation
- Manholes, vaults & pull boxes
- Excavation & trenching
- Equipment pad foundations
- Grounding grid systems



HVAC & Mechanical Support

- Commercial RTU systems
- Industrial ventilation support
- Preventive maintenance programs
- Controls & BMS integration
- Ductwork & airflow balancing
- Diagnostics & repair services

Structured Programs That Reduce Risk

Our maintenance programs are engineered around equipment criticality, failure mode analysis, and production scheduling — not contractor convenience.

Preventive Maintenance

Calendar-based and runtime-based inspection cycles tailored to your equipment fleet and operational tempo.

- ✓ Switchgear & panel board inspections
- ✓ Transformer oil analysis & testing
- ✓ Breaker exercising & trip testing
- ✓ Connection torque verification
- ✓ Grounding system integrity checks
- ✓ Motor insulation resistance testing

Predictive Maintenance

Condition-based monitoring that identifies degradation trends before they become production-stopping failures.

- ✓ Infrared thermographic scanning
- ✓ Vibration analysis coordination
- ✓ Power quality monitoring
- ✓ Insulation degradation trending
- ✓ Load profiling & capacity analysis
- ✓ Arc flash hazard assessments

Reliability-Centered Maintenance

Strategic failure mode elimination focused on equipment that matters most to production continuity.

- ✓ Equipment criticality ranking
- ✓ Failure mode & effects analysis
- ✓ Spare parts strategy development
- ✓ Mean-time-between-failure tracking
- ✓ Root cause analysis support
- ✓ Maintenance backlog prioritization

Documentation & Reporting

Every PM cycle produces auditable documentation — not a scribbled notepad left in a truck.

- ✓ Digital inspection reports
- ✓ Photo-documented findings
- ✓ Trend analysis dashboards
- ✓ Corrective action tracking
- ✓ Regulatory compliance records
- ✓ Executive summary reports

EMERGENCY & RAPID RESPONSE

When It Fails, We Answer.

Production emergencies don't respect schedules. Our emergency response model is designed around the reality that every minute of unplanned downtime has a measurable cost — and that cost compounds with delay.

<2hr

On-Site Response Target

For contracted maintenance clients within our primary service radius

Direct

Live Emergency Dispatch

Direct contact with field leadership — not an answering service

100%

Self-Deployed Resources

Our trucks, our equipment, our crews — no third-party mobilization delays

Storm Damage Restoration

Rapid assessment and restoration of utility feeds, distribution systems, and critical circuits after weather events.

Emergency Power Setup

Generator deployment, temporary power systems, and load transfer to maintain critical operations during outages.

Fault Diagnosis & Repair

Advanced troubleshooting of ground faults, phase failures, breaker trips, and equipment malfunctions under production pressure.

Testing & Commissioning

Verification of repaired systems before returning to service — ensuring safety and reliability, not just power restoration.

Precision Execution Under Compressed Timelines

Planned shutdowns and turnarounds represent the highest-stakes maintenance windows in plant operations. Scope creep, coordination failures, and delayed start-ups cost millions.

Knight Electric provides dedicated electrical crews for planned shutdown and turnaround events, scaled to your scope and timeline requirements. Our vertical integration — own crews, own equipment, own logistics — eliminates the coordination overhead that typically plagues multi-contractor shutdowns.

We work within your shutdown planning process, aligning our scope with your critical-path schedule and providing pre-shutdown material staging, crew pre-mobilization, and post-shutdown commissioning support.

Our shutdown crews maintain the same safety and documentation standards as our day-to-day operations — no compromise under time pressure.



Pre-Shutdown Planning

Scope validation, material procurement, crew scheduling, and safety pre-briefings completed 30+ days prior to execution.



Material Staging

Pre-positioned materials, tools, and equipment verified and staged on-site before shutdown window opens.



Execution Phase

Dedicated crews executing electrical scope in coordination with mechanical, instrumentation, and operations teams.



Testing & Commissioning

Point-to-point verification, megger testing, functional checks, and energization sequences completed per startup plan.



Turnover & Documentation

As-built documentation, test reports, and punch list completion delivered before crew demobilization.

Safety Is Not a Program. It's an Operating Discipline.

Knight Electric assigns a dedicated field supervisor and safety person to every active project. Our safety philosophy focuses on hazards with lethal potential: stored energy, falls, utility strikes, and energized work. We ensure the right controls are in place before tasks begin.



Daily JHA/JSA Protocols

Task-specific hazard analysis completed and signed before every work activity. No blanket JSAs. No copy-paste from yesterday.



NFPA 70E Compliance

Arc flash rated PPE, incident energy analysis, approach boundary enforcement, and energized work permit procedures.



LOTO Execution

Strict lockout/tagout procedures for all energy isolation. Zero-energy verification before work begins. No exceptions.



OSHA 10/30 Workforce

All field personnel maintain current OSHA certifications. Ongoing training through weekly toolbox talks and site-specific orientations.



First Aid & CPR Ready

Certified first responders on every active jobsite. Emergency action plans posted and rehearsed.



Incident Tracking & EMR

Transparent reporting, near-miss tracking, and continuous improvement through safety metrics analysis. GC pre-qualification ready.

“We own our roles, speak the truth when things go wrong, and build learning huddles instead of blame. In mission-critical environments where 100% on-time delivery and zero-defect execution are non-negotiable, our crews bring the precision and discipline that complex facilities demand.”

Auditable Records. Every Time.

Every task we perform generates documented evidence. This isn't administrative overhead — it's your protection during audits, insurance reviews, and incident investigations.



Inspection Reports

Photo-documented findings with condition ratings and recommended actions



As-Built Drawings

Accurate field-verified documentation reflecting actual installed conditions



Test Reports

Megger, hi-pot, ground resistance, and functional test results with calibration records



Trend Analysis

Equipment condition trending, failure history, and predictive maintenance dashboards



Arc Flash Labels

NFPA 70E compliant labels with incident energy, PPE requirements, and approach boundaries



Safety Records

JHA/JSA documentation, toolbox talk logs, training records, and incident reports



Submittal Packages

Equipment submittals, cut sheets, and O&M manuals organized for permanent plant records



Executive Summaries

Monthly and quarterly reports for maintenance leadership with KPIs and action items

— QUALITY CONTROL

Level 3 Execution Model

Level 3 execution means our crews don't just complete tasks — they verify quality, document results, and take ownership of the outcome before closing a work order.

Pre-Task Verification

Scope confirmation, material verification, and safety pre-brief completed before tools leave the truck. No assumptions. No rework from misunderstood scope.

In-Process Quality Checks

Torque verification, termination inspection, conductor routing review, and code compliance checks performed during execution — not after.

Post-Task Documentation

Photo documentation, test results, as-built markups, and completion sign-off delivered before crew demobilization. The work isn't done until the paperwork is done.

— WHY WE'RE DIFFERENT

Knight Electric vs. Typical Electrical Contractors

The differences aren't subtle. They show up in response time, documentation quality, safety performance, and production impact.

EVALUATION CRITERIA	KNIGHT ELECTRIC	TYPICAL CONTRACTOR
Workforce Model	100% self-performed with own crews & equipment	Subcontracts specialty work; limited control
Emergency Response	Rapid dispatch, <2hr on-site target for retainer clients	Next business day; generic answering service
Safety Program	Dedicated EHS Manager, daily JHAs, NFPA 70E compliant	Generic safety manual; minimal field enforcement
Documentation	Photo-documented reports, digital records, trend tracking	Handwritten notes; incomplete records
Equipment Fleet	Full fleet: excavators, boom lifts, bucket trucks, tuggers, metering	Rents equipment as needed; mobilization delays
Plant Understanding	Crews trained in plant protocols, production awareness	Commercial electricians unfamiliar with plant tempo
Accountability Model	Single-point ownership from task start to documented completion	Diffused responsibility; finger-pointing between subs
Shutdown Support	Pre-planned crew scaling with material staging	Ad-hoc staffing; scope creep from poor planning

Flexible Service Structures

Choose the engagement model that aligns with your operational tempo, budget structure, and maintenance maturity level.

RESPONSIVE

On-Call Services

Project-based and emergency response engagement for facilities with existing maintenance teams that need supplemental capacity.

- Emergency response access
- Project-based crew deployment
- T&M or fixed-price billing
- No minimum commitment
- Standard documentation package

RECOMMENDED

Retainer Partnership

Dedicated crew availability with priority scheduling, guaranteed response times, and proactive maintenance planning.

- Guaranteed <2hr emergency response
- Reserved crew capacity
- Monthly PM cycle execution
- Priority scheduling over non-retainer clients
- Quarterly executive summary reports
- Annual infrastructure assessment

FULL SCOPE

Contracted Maintenance

Embedded electrical maintenance team functioning as an extension of your plant operations with full program ownership.

- Dedicated on-site crew
- Full PM program management
- Integrated CMMS workflows
- Shutdown & turnaround support
- Continuous improvement KPIs
- Budget predictability

— NEXT STEP

Ready to Reduce Downtime and Plant Risk?

We propose a no-obligation plant electrical walkthrough — identification of high-risk electrical areas, a customized preventive maintenance proposal, and an optional pilot support agreement. Just a conversation between people who understand what it takes to keep production running safely and reliably.

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KNIGHT ELECTRIC INC.

From Dirt to Power-On

Licensed Electrical & HVAC Contractor — Nationwide Coverage
Industrial Plant Maintenance Portfolio — Confidential