



MADISON ENERGY  
EFFICIENCY MADE SIMPLE

## EFFICIENCY INNOVATION SUITE



## CLIENT UTILITY SERVICE PLATFORM

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Transform Hidden Utility Costs Into Strategic Savings With utility expenses consuming 12-30% of operating costs while 70% of businesses lack visibility into their energy patterns, Madison's intelligent utility management platform eliminates the guesswork from energy spending. Our proprietary analytics engine uses machine learning to transform raw utility data into actionable insights, identifying the inefficient usage patterns and suboptimal rate structures that silently inflate energy bills by 15-40% annually.

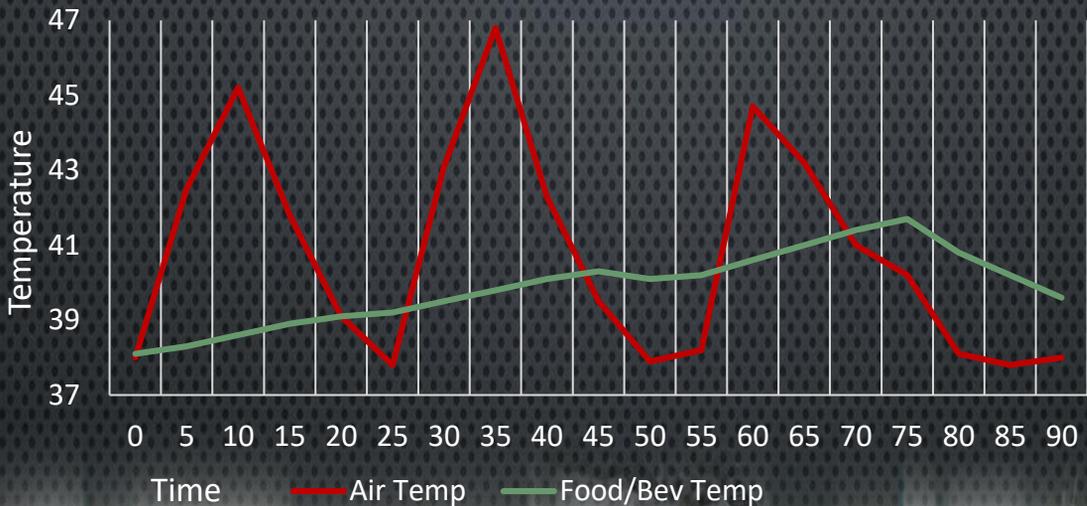
- **Watts True Platform Monitoring & Analysis**
- **Utility Rate Optimization**
- **Utility Expense Auditing & Review**
- **Continuous Project Performance Monitoring**





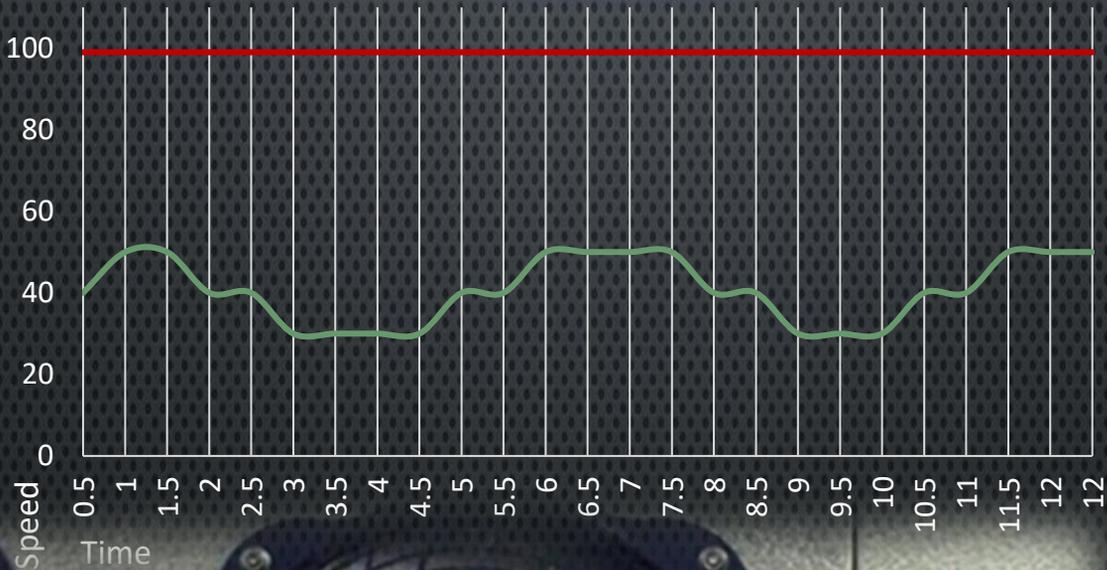
## CONTROL TEMPERATURE EFFECTIVELY & EFFICIENTLY

EnerG<sup>2</sup> revolutionizes refrigeration control by replacing inaccurate air-based thermostats with food-simulating gel technology. This specialized thermal compound mimics the actual temperature of refrigerated products, delivering precise temperature control that reduces energy waste and compressor cycling. With zero maintenance requirements, lifetime warranty, and guaranteed performance, EnerG<sup>2</sup> provides immediate efficiency gains with complete peace of mind.



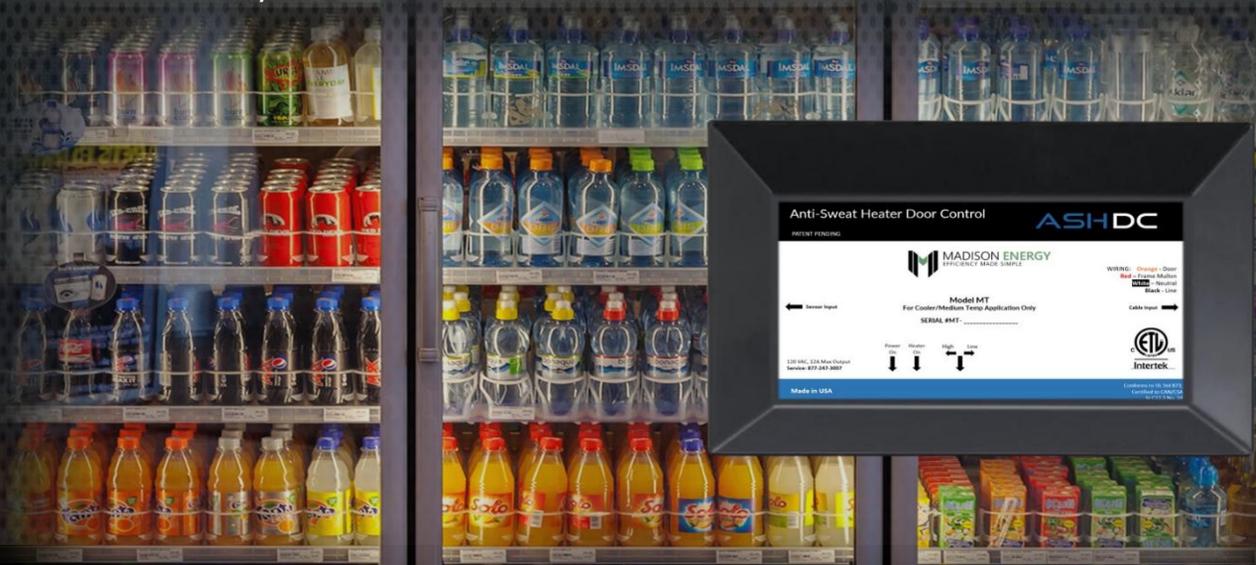
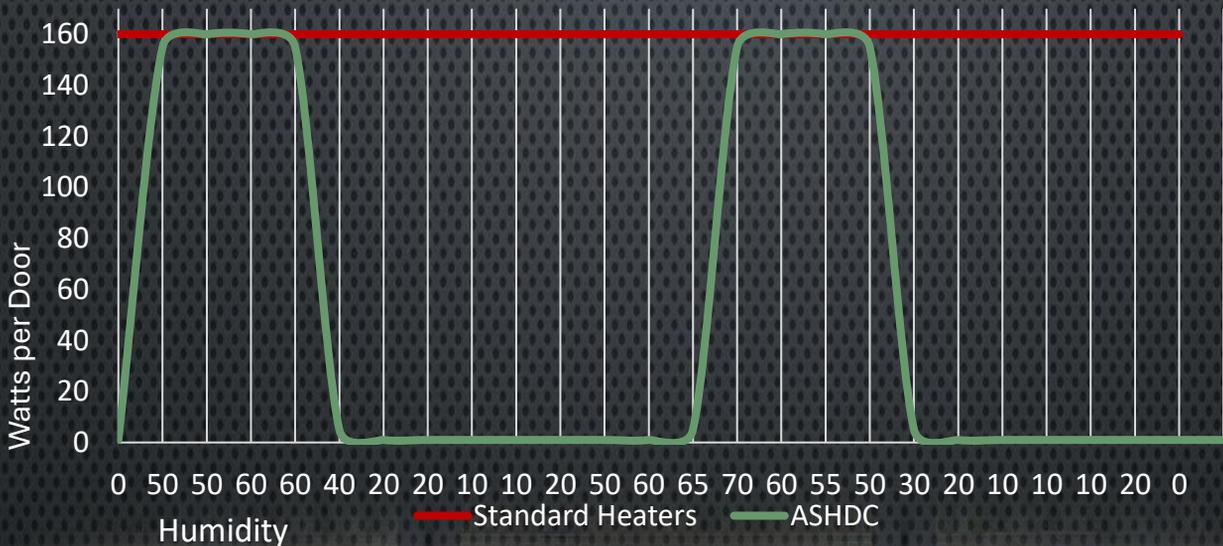
## MAXIMIZING EFFICIENCY WITH SMART COOLING

ECMTEK delivers an integrated dual solution featuring EC (electrically commutated) evaporator fan motors with advanced controllers that enable variable speed operation while dramatically reducing energy consumption. Unlike traditional fan motors that inefficiently convert electrical energy into counterproductive heat within refrigerated environments, ECMTEK intelligently operates fans at optimized lower speeds and minimizes heat output during non-cooling periods, resulting in substantial energy savings and enhanced efficiency.



## CLEAR DOORS, EFFICIENT STORES

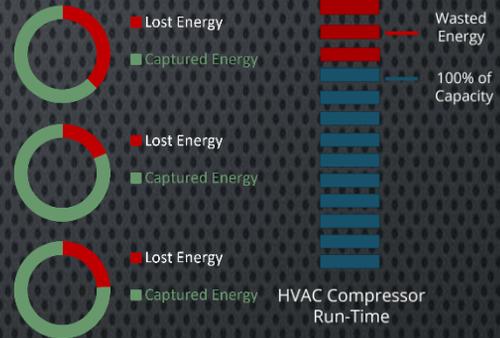
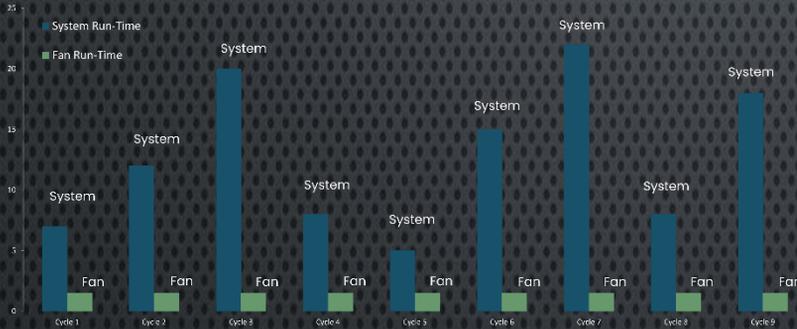
Anti-Sweat Heater Controls significantly reduce energy consumption by up to 80% using sensor-based technology to modulate heaters, ensuring they operate only when necessary. Our system independently controls the three heating components (door, frame, mullion) to maximize efficiency. The built-in Programmed Maintenance Cycle (PMC) technology guarantees that display cases remain free of sweat, frost, and ice.



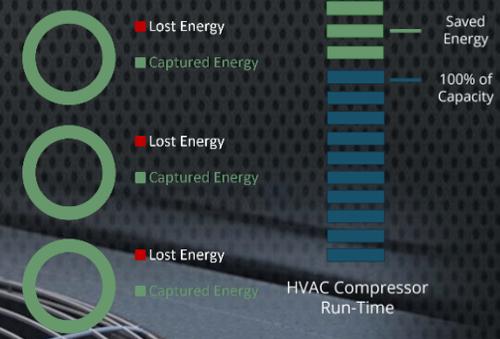
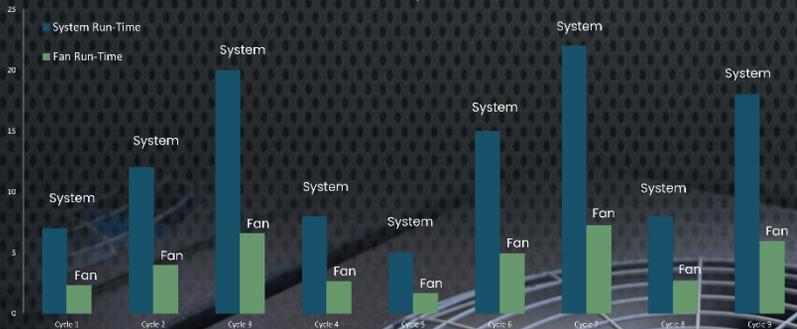
## OPTIMIZING HVAC OPERATION FOR MAX EFFICIENCY

The IntelliHVAC is an advanced dual-microprocessor control system that optimizes HVAC efficiency through intelligent timing coordination. It synchronizes fan and compressor operations, extending blower run-time to capture residual coil energy while preventing unnecessary compressor cycles when coils reach peak performance. This smart sequencing maximizes energy extraction from each cooling cycle, delivering measurable efficiency gains with minimal operational disruption.

**BEFORE IntelliHVAC: Compressor Run-Time vs Fan Run-Time**



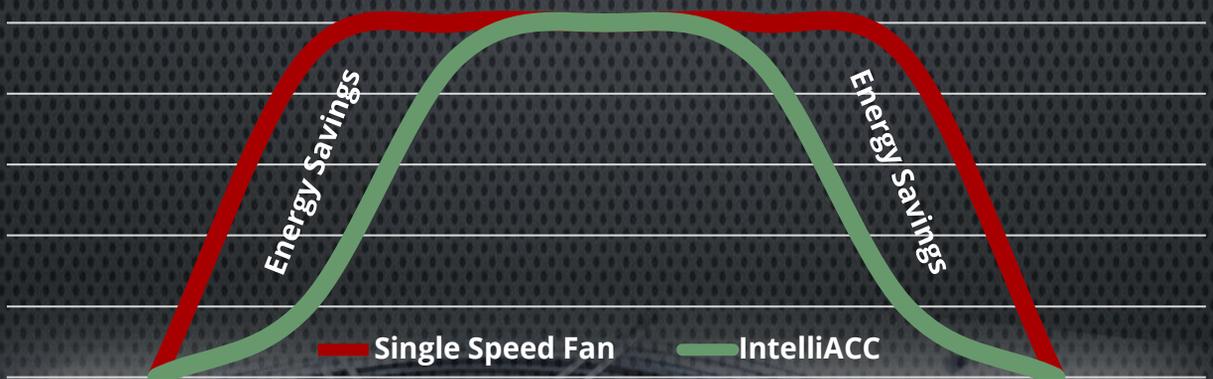
**AFTER IntelliHVAC: Compressor Run-Time vs Fan Run-Time**



## ADAPTIVE SPEED, MAXIMUM EFFICIENCY

IntelliACC is an intelligent fan motor control system that transforms single-speed, single-phase motors into adaptive variable speed units. Utilizing Cube's Law principles—where a 20% speed reduction yields 50% energy savings—IntelliACC maximizes operational efficiency through soft-start technology that reduces inrush current by 60%, then dynamically modulates fan speed based on system demand and setpoint proximity. Enhanced with machine learning capabilities, it continuously adapts to changing climate conditions and system parameters, delivering optimal performance while significantly reducing energy consumption and operational costs.

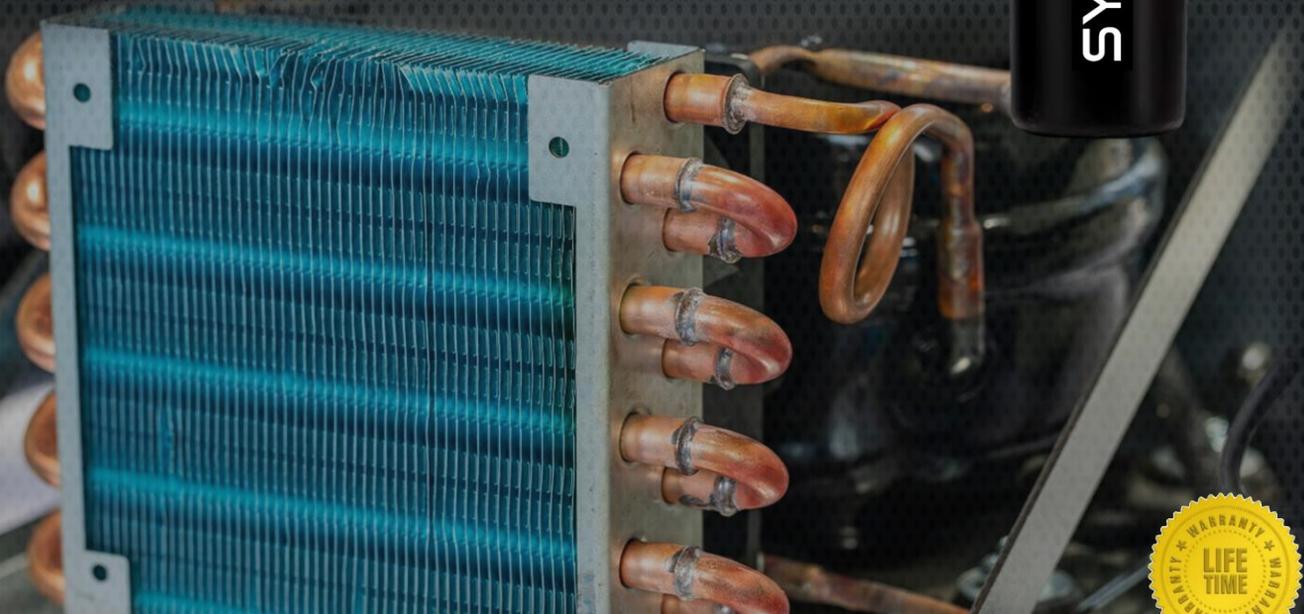
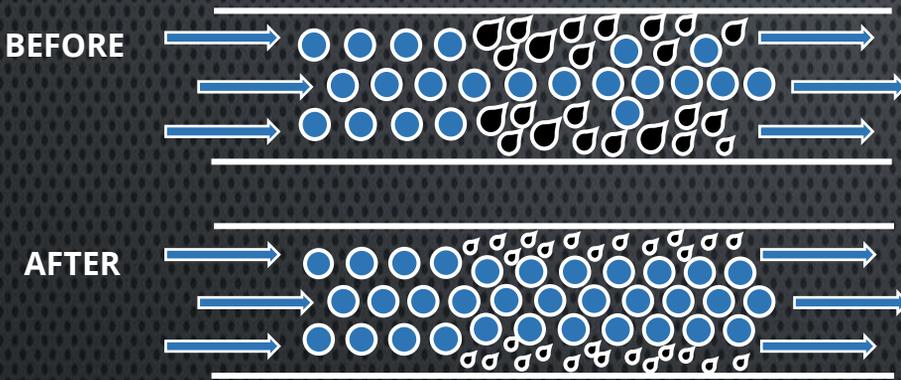
Single Speed Fan vs IntelliACC



# SYNCAT360

## SUPERIOR PERFORMANCE; LASTING PROTECTION

SynCat360 is an advanced synthetic catalyst that enhances HVAC compressor performance by breaking down oil particles and restoring viscosity. It features two catalysts: one removes oil fouling to keep heat exchange surfaces clean, and the other accelerates refrigerant heat absorption for faster setpoint achievement and energy savings. Additionally, nanoparticles fill cracks and bond to refrigerant lines and coils, extending equipment life by preventing leaks and degradation.



# ATMOS-Eco3

## ADVANCED COMPRESSOR CONTROLS

ECO3 and ESM4 devices act as intelligent controllers that retrofit seamlessly onto existing HVAC systems, optimizing compressor operation through smart cycle management rather than the traditional all-or-nothing approach. These devices continuously monitor system performance, learn building cooling patterns, and precisely time compressor cycles to run in shorter, more frequent bursts that achieve the same comfort levels while consuming 20-40% less energy. The technology requires no system replacement or major modifications—it simply makes existing compressors work smarter by determining the optimal timing for when and how long they need to run.

- ❧ Energy Savings: 20-40% reduction in HVAC energy costs
- ❧ Quick ROI: Payback period typically 6-18 months
- ❧ Zero Disruption: Under 2-hour installation with no system downtime
- ❧ Universal Compatibility: HVAC and Cold Storage

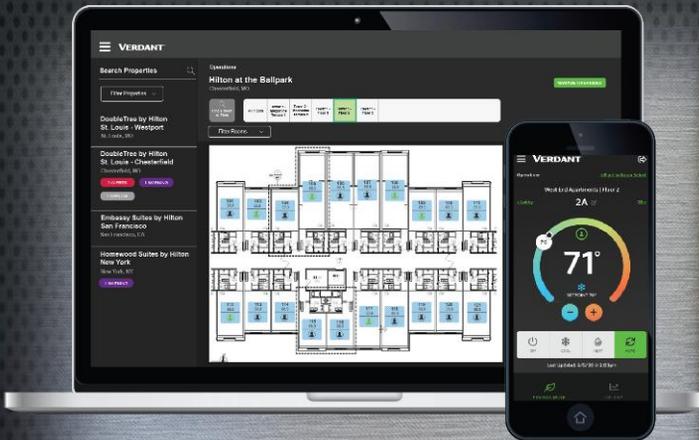


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## SMART CLIMATE CONTROL FOR MAXIMUM EFFICIENCY & SAVINGS

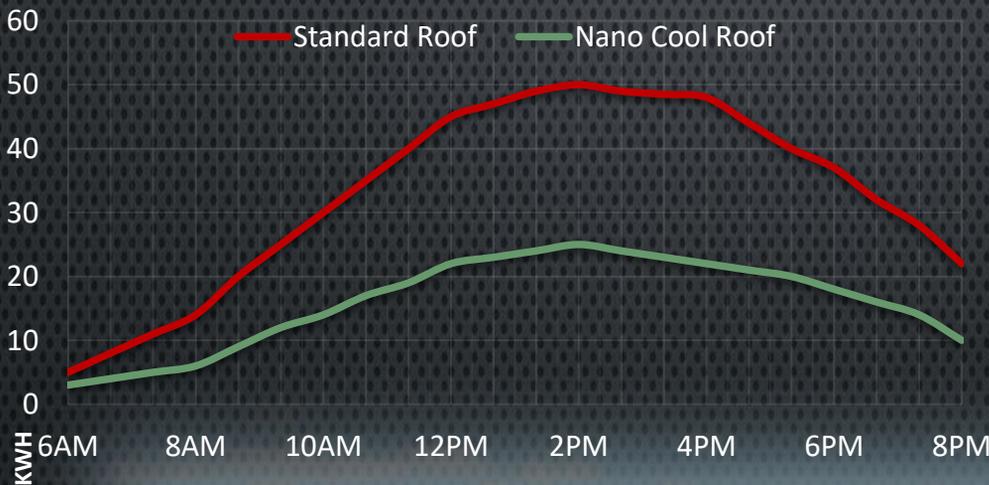
Verdant Energy Management Systems deliver intelligent, automated climate control that reduces HVAC energy costs by 25% while improving occupant comfort. Our wireless technology combines smart thermostats, occupancy sensors, and cloud-based analytics to optimize building performance in real-time. The system features Wi-Fi enabled thermostats, wireless sensors requiring no rewiring, and AI-powered algorithms that automatically adjust climate settings based on usage patterns and weather forecasts. The VerdantIQ™ platform provides real-time monitoring, predictive maintenance alerts, and energy reporting through web dashboards and mobile apps.

- || Core Technology: Smart thermostats, wireless occupancy sensors, and AI-powered optimization
- || Verdant IQ™ Platform: Real-time monitoring, predictive maintenance alerts, and energy reporting via web/mobile



## BUILDING OPTIMIZATION THROUGH NANO SCIENCE

An advanced nano-engineered acrylic coating that dramatically reduces cooling costs by up to 50% through superior heat rejection technology. NanoCool features a proprietary ultra-low thermal conductivity formula that maintains peak energy efficiency even when dirty or under extreme UV exposure. With industry-leading 71% solids content and exceptional weather resistance, it creates a seamless, waterproof membrane that withstands cracking, hail damage, and UV degradation. Engineered for effortless application and maximum durability, NanoCool delivers the industry's highest ROI, making it the intelligent, cost-effective alternative to expensive roof replacement.



## PURE AIR, HEALTHIER WORKSPACES

The Madison Aire UVC LED Light Bar delivers cutting-edge air purification for HVAC systems, installing near evaporator coils to ensure your workforce breathes the cleanest, safest air possible. This precision-engineered 18-inch unit provides complete sterilization coverage for 5-ton HVAC systems, featuring a premium driver that generates 26,000 watts of continuous 265nm UVC light—the optimal wavelength for maximum pathogen destruction. Laboratory testing confirms that within two hours of activation, The Madison Aire achieves near-complete elimination of harmful bacteria, viruses, mold spores, and other pathogens while neutralizing odors, creating a healthier, more productive workspace.

- Eliminates 99.9% of Bacteria, Viruses, etc.
- Lab Tested / CE & RoHS Certified
- Solid design, 2mm thick aluminum PCB mounted on ribbed metal extrusion for increased heat dissipation and longer life



# MADISONLED

## BRIGHT SOLUTIONS, EXPERTLY DESIGNED

Our advanced LED solutions provide superior illumination while significantly reducing energy consumption and maintenance costs. Whether you're implementing small to large-scale projects, our team offers detailed design and expert analysis to ensure optimal performance. Designed for longevity and durability, commercial LEDs offer a brighter, more consistent light output, enhancing the ambiance and safety of your workspace. With a variety of customizable options, our LEDs can be tailored to meet the specific needs of any commercial environment.



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## POWERING THE FUTURE OF OUR INSTRUCTURE

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Madison Energy delivers turnkey electric vehicle charging solutions with Level 2 and Level 3 infrastructure for commercial, retail, and multi-family properties. Our expert team conducts comprehensive site assessments to develop customized deployment strategies that balance current needs with future scalability.

Madison Energy offers flexible financing including capital purchase, operational leases, and innovative revenue-sharing programs where we invest in charging infrastructure in exchange for a percentage of charging revenue—featuring 5-10-year terms with performance guarantees and ownership transfer options.

Our comprehensive service includes utility coordination, rebate administration, design, permitting, installation, commissioning, and ongoing management with 24/7 monitoring, maintenance, usage analytics, and driver support—delivering maximum ROI with zero hassle.



# MADISON SOLAR

## POWERING THE FUTURE OF OUR INSTRUCTURE

Madison Solar develops solar projects, including rooftop solar, ground mounts, and microgrid solutions, across the U.S. Our expert team consists of industry leaders with decades of experience in energy projects, bringing unparalleled knowledge and expertise to every client engagement. We take a unique approach by prioritizing the reduction of your energy consumption before designing your solar solution, ensuring maximum efficiency and optimal system performance. This methodology allows us to achieve higher energy offset percentages than our competitors, delivering superior value and faster return on investment. We utilize the latest advancements in solar technology to deliver cutting-edge solutions that represent the forefront of renewable energy innovation. Throughout the entire process, we provide comprehensive end-to-end service, offering dedicated support from your initial consultation through final installation and beyond.



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