

If you use electricity in your business or industry, you could benefit significantly from these services. For more information, or to discuss specific energy issues, call your MTEMC Key Account Coordinator.

## ***Rutherford & Cannon***

**Kevin Lee**

615-494-1639

kevin.lee@mtmc.com

## ***Williamson***

**Todd Palmer**

615-217-5281

todd.palmer@mtmc.com

## ***Wilson***

**Dale Merritt**

615-453-3079

dale.merritt@mtmc.com

**www.tva.com**

For alternate formats of this document, call 865-632-6824 and allow five working days for processing.

Comprehensive Services

# Need energy solutions?



  
Middle Tennessee Electric





## COMPREHENSIVE SERVICES

# Products and Services

Through the Comprehensive Services Program (CSP), TVA and local power companies provide engineering and technical assistance for commercial and industrial customers at no charge.

CSP covers all areas of energy use, including power analysis, technical services, energy use and predictive maintenance.

Our services include:



**POWER ANALYSIS**



**TECHNICAL SERVICES**



**ENERGY USE**



**PREDICTIVE MAINTENANCE**



# Power Analysis

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## Power Quality

Studies address voltage problems originating inside or outside the facility that adversely affect the end user.

## Metering

We install temporary metering equipment to gather data on facility electrical usage.

## Power Factor

Metering and recommendations to correct for low power factor.

## Grounding/Lightning

Grounding study, grounding testing and lightning-protection recommendations.

## Demand-Side Management

Monitoring and testing electrical systems and recommendations related to managing peak demand.



# Technical Services

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## HVAC

Heating, ventilation, and air-conditioning studies examine the sizing of HVAC equipment, offer heating-and-cooling system comparisons, investigate problems with existing systems and provide recommendations for improvements.

## Lighting

Studies provide recommendations for the design of lighting systems in such places as sports fields, roadways, parking lots, and commercial and industrial plants.

## Wiring and Electrical Distribution Equipment

Studies analyze the facility's distribution system, including the sizing of wiring and equipment, and provide recommendations for system improvement.





## Energy Use

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### Energy Audits

General survey of energy use in a facility and recommendations on energy management opportunities, process and facility improvements.

### Water Heating

Studies explore heat-pump water heater applications, standard energy-efficient water heaters, and cost comparison of electric versus fossil-fuel systems.

## Predictive Maintenance

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### Infrared Scans

Infrared scans of electrical equipment such as transformers, breakers, bus and conductor connections for hot spots, as well as scans for facility heating-and-cooling loss.

### Ultrasonic Testing

Ultrasound technology can locate compressed air leaks caused by vibration, holes in hoses, loose joints and cracks.