



**Service/Product Provider**

**Yates Services**

983 Nissan Drive  
Smyrna, TN 37166

Business: Maintenance Services

Randy Cook

Energy Analyst

Phone: 615-459-1703

Email: [randy.cook@nmm.nissan-usa.com](mailto:randy.cook@nmm.nissan-usa.com)

**Industrial Partner**

**Nissan**

983 Nissan Drive  
Smyrna, TN 37166

Business: Automotive Manufacturing

Ken Roden, CEM

Energy Team Facilitator

Phone: 615-459-1832

Email: [ken.rodan@nmm.nissan-usa.com](mailto:ken.rodan@nmm.nissan-usa.com)

**Yates partners with Nissan to save over \$300,000 annually in energy expenses**

**Project Scope**

Yates Services is an integral member of various plant energy teams at Nissan, providing building maintenance, HVAC, electrical, and production support services. As such, Yates addresses a wide variety of energy reduction opportunities including equipment shutdowns, retro-commissioning, upgrades, and promotion of energy efficiency initiatives at all North American manufacturing sites.

**Project Summary**

Yates helped to implement no- and low-cost energy saving projects at various Nissan facilities. The most significant project involved reducing boiler steam header pressure by 50 psi and lowering hot water process temperatures by 30 degrees Fahrenheit while meeting demands of the production process. Additional projects included transformer voltage reduction during weekends and shutdowns, lighting retrofits, and paint booth cleaning equipment efficiency upgrades.

- **Energy Savings**  
\$275,000 annual savings from reduced energy resource costs due to boiler pressure and hot water temperature optimization measures; additional projects saved \$25,000 annually.
- **Investment**  
Boiler optimization used existing equipment and controls and required no investment. For other projects, investment was minimal, when required.
- **Financial Return**  
For all projects, payback was less than two years, with immediate returns for many projects.
- **Other Benefits**  
Reduced maintenance, lowered greenhouse gas emissions, enhanced training and improved reliability were realized.

**Monitoring & Verifying Energy Savings**

Existing energy meters in Nissan facilities were used to monitor and verify energy savings.

**Distinguishing Value**

Nissan realizes savings from Yates Services' active support of energy efficiency projects. The Yates team provides reliable and consistent input as well as implementation support. The Nissan energy team consists of multiple Yates members, and Yates continues to be a vital part of Nissan's energy program.