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NISSAN



Leveraging Government Programs to
Implement Plant Energy Projects

Canton, Mississippi

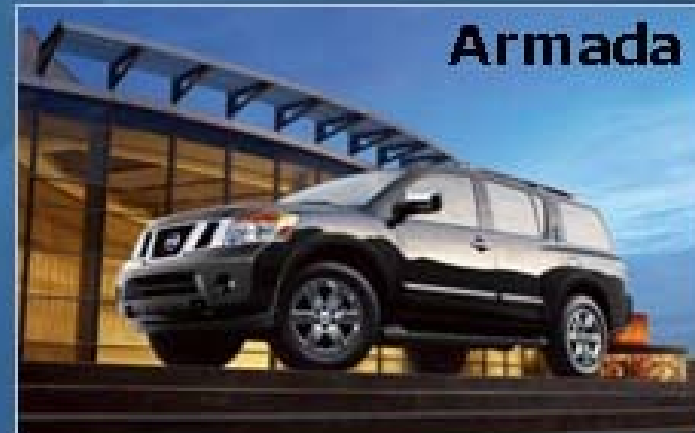


CANTON **VEHICLES**



IntelliChoice
MAKING YOUR CAR SMART

edmunds.com
www.edmunds.com



AutoPacific
ideal
vehicle
IVA
award

Kiplinger's 2008





- 75 year history
- Nissan CVs sold in over 75% of world's markets
- Sold over 500,000 in 2007, over 550,000 in 2008
- 16% of Nissan's global sales volume in 2009





WHY COMMERCIAL VEHICLES?

- Tailored to today's North American customer
- Best-in-class comfort
- Best-in-class performance
- Best-in-class utility





CANTON ENERGY STAR





CANTON ENERGY FAIR





ENERGY PERFORMANCE

The Canton plant has achieved:

- Improved energy efficiency by more than **35%**
- Energy savings of over **\$5.0 million** annually
- Improved energy intensity by more than **8.5%**





ENERGY INITIATIVES

- Only use energy that is needed – minimize waste
- Challenge barriers and fixed cost mindsets
- Benchmark, share best practices
- Establish in-plant energy teams
- Meter/measure/monitor commodities
- Minimize non-production time energy use
- Focus HVAC & lighting to areas needed
- Establish targets & report performance
- Demand Curtailment Program
- **Identify and implement low-cost and capital projects for sustained energy reduction**



ENERGY ASSESSMENTS



U.S. Department of Energy
Energy Efficiency and Renewable Energy
Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable



Industrial Technologies Program

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Save Energy Now



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Energy Assessments

- Application
- Assessment Process**
 - Prepare
 - Apply
 - Participate
 - Implement
 - Communicate
- Participating Plants
- Energy Experts
- Results
- Recognition

Assessment Process

Through energy assessments, DOE's Save Energy Now helps plants quantify immediate opportunities for energy and cost savings. These assessments can help you launch or expand your energy management strategy to help you continue to yield major bottom-line benefits throughout your company and put you on a path to energy savings.

Energy Assessments *The Path to Energy Savings* ▶

Prepare

Apply

Participate

Implement

Communicate

Identify and implement low-cost and capital projects for sustained energy reduction



IDENTIFY OPPORTUNITIES

Fan Assessment

Pump Assessment

Process Heating Assessment

Save
ENERGY
Now.





IDENTIFY IDEAS

- Nissan's plants are larger than the intended scope for state Industrial Assessment Centers (IACs).
- Mississippi State is helping Nissan by providing assessments to vendor plants and supplier companies. We're also horizontally deploying these ideas.





MISSISSIPPI MANUFACTURER'S ASSOCIATION

Nissan is on the energy committee, working with other manufactures to exchange ideas and share best practices.

Learn about government programs.



Mississippi Manufacturers Association



MMA ENERGY SUMMIT





STATE of **MISSISSIPPI**

- Member of Mississippi Development Authority (MDA), Mississippi Energy Coordination Association (MECA) and other state wide organizations.
- Nissan is on the board of the governor's Mississippi Energy Policy Institute (MEPI).





ARRA and **MDA**

State Energy Program (SEP) - The U.S. Department of Energy allocated \$40,418,000 in SEP funds to the State of Mississippi to improve the energy efficiency of homes, commercial and industrial buildings, businesses, schools, and transportation.





SEP – MJPEED \$10,000,000

Mississippi Job Protection through Energy Economic Development

MDA-Energy has developed a program which will provide funding to eligible Mississippi businesses for energy efficient retrofits and upgrades to help them cut costs, reduce energy consumption and create or retain jobs. Businesses of all sizes are eligible to receive funding for energy efficient upgrades including: building envelope; lighting; heating, ventilating and A/C; water heating; industrial systems for steam, process heating, pump, fan and compressed air; solar or biomass power systems; metering; and other energy efficient or alternative energy systems.

Mississippi Job Protection through
Energy Economic Development

Overview





LEADING to OPPORTUNITIES

State Energy Program (SEP)

American Recovery and Reinvestment Act of 2009 (ARRA)

Mississippi Job Protection through Energy Economic Development Program

Nissan North America, Inc.



GOVERNOR HALEY BARBOUR
STATE OF MISSISSIPPI

MISSISSIPPI DEVELOPMENT AUTHORITY
Gray Swoope, Executive Director

Funds were made available for this project by the
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State Senators Thad Cochran & Roger Wicker
State Representative Bennie G. Thompson, District 02



ARRA SEP GRANT **SAVINGS**

Plant energy savings of 70,000 MMBTU/yr

Energy cost savings over \$700,000/yr

Equivalent to 12 technician jobs

Grant produced 26 different construction jobs





Leveraging Government Programs



NISSAN

