



The Future of Louisiana Energy and the Environment >>>

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Energy Supply in Louisiana



- Shale Gas Revolution
- Diverse and Flexible Fuel Supply
 - Transportation
 - Conventional Petroleum
 - Propane
 - Natural Gas
 - Electric
 - Electricity
 - Natural Gas
 - Coal
 - Nuclear
 - Limited Renewables

“Back to the Future”



- Federal Energy Policy
 - Coal has dominated electric generation in the US for more than 60 years
 - But in Louisiana, electric generation was dominated by Natural Gas until the 1970s
- 1973 Arab Oil Embargo
- 1975 Energy Policy & Conservation Act
 - Required that new electrical generation be from America's Abundant Resource....Coal
 - State Energy Offices were established
- 1980s: 4 new large scale coal fired electric generation stations were built in Louisiana



Early 2000s:

New Combined Cycle Combustion Turbines

- Electric Demand Growth
- Potential Changes to the Integrated Utility Structure
- Advent of Independent Power Producers
- Availability of New Highly Efficient / Low Emitting Combustion Turbines

Energy Efficiency Programs



- 1998: DNR established new energy efficiency programs
- Initially focused on individual homes
- Expanded to include low interest Revolving Loan Program focused on schools (>\$30 Million to date)
- Expanded under ARRA in 2009
 - State Buildings (Lead By Example)
 - Energy Star® Appliance Rebate Program
 - Energy Efficiency and Conservation Block Grant Program (EECBG)
 - Renewable Energy Program
- Programs have saved well over 600,000 MMBtu of energy

Renewables in Louisiana



- Louisiana Legislature's favorable tax incentives result in over **44,000 kW** of renewable capacity to the utilities regulated by the Public Service Commission
- Renewable Generation funded under ARRA generate over **95,000 kWh** of renewable energy annually
- Cooperative endeavor between Cleco, the University of Louisiana at Lafayette, DOE, and DNR established the Alternative Energy Center in Crowley
 - Concentrating Solar, Biomass Gasification, and Torrefaction

Alternative Transportation Fuel Programs



- DNR continues to encourage the development of Alternative Fueling Infrastructure including CNG, LNG, Propane, and Electric
- Under ARRA, DNR funded the award-winning St. Landry Parish Landfill BioCNG Facility and 11 CNG Stations
- Continue to provide funding for the work of Louisiana Clean Fuels and the Greater New Orleans Clean Cities Coalition

EPA Clean Power Plan Building Blocks (Draft 2014 Proposal)



- Make fossil fuel power plants more efficient
 - 6% average heat rate improvement for coal steam electric generating units (EGUs)
- Use electricity more efficiently
 - Increase demand-side energy efficiency by 1.5% annually
- Use more low-emitting power sources
 - Dispatch existing and under-construction natural gas combined cycle (NGCC) units to 70% capacity factor
- Use more zero- and low-emitting power sources
 - Dispatch moderate deployment of new renewable generation, new nuclear generation under construction, and continued use of existing nuclear generation

Our Energy “Future”



- Continue to promote responsible energy exploration and development
- Continue to promote Alternative Transportation Fuels
- Continue to promote Energy Efficiency Projects
- Continue to promote Renewable Energy
- Work with LPSC and LDEQ on responding to new EPA Air Quality Standards and Regulations

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