



Center for Energy Studies

Overview EPA's Proposed Clean Power Plan and Impacts for Louisiana

*Clean Cities Coalition Meeting
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Proposed Louisiana CO2 State-wide Emission Rate Reduction

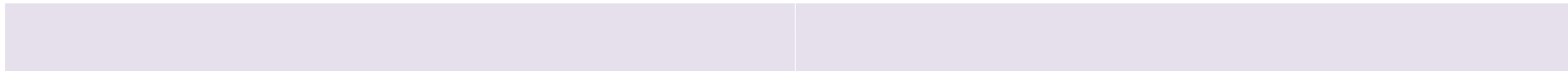
State Comparison of Emission Rate Reductions

State Comparison of Total Annual CO2 Emission Reductions

Myth: Louisiana Will Not be Impacted Much Since it is a Natural Gas State

Comparative Impacts: Emission Reductions Per-Capita

Comparative Impacts: Emission Reductions Per State GDP



EPA's Proposed Clean Power Rule – Louisiana BSER Targets

Louisiana Average Fossil EGU CO2 Emissions Standard based on BSER



Building Block 1: 4-6 Percent Lower Emissions from Existing Coal Generation

- EPA notes that several studies have examined the potential to improve heat rates at coal-fired power plants, noting specifically a 2009 study by the engineering firm Sargent & Lundy.
- Based on the 2009 Sargent & Lundy study, EPA estimated that potential heat rate improvements are in the order of approximately 4 to 12 percent. Furthermore, based on review of EPA and DOE EIA generation data, EPA estimates that historically EGUs have experienced heat rate improvements from 3 to 8 percent.
- Based on a review of prior studies and generation trends, EPA estimates the potential for improvements in heat rates of between 4 and 6 percent, which
 - mirrors a reduction in CO₂ emissions by the same
- EPA notes that a 6 percent reduction in heat rates would result in a 6 percent reduction in CO₂ emissions, and a 6 percent reduction in heat rates would be sufficient to cover the cost,

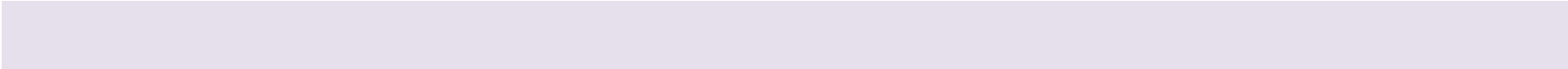


Building Block 1 Issues

Recent Trends in Louisiana Gas-Fired Generation



Building Block 2 Deficiencies

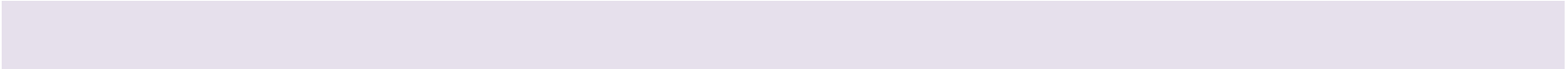


Building Block 3a, “At Risk” Nuclear Capacity

Historic Trends in Nuclear Generation, Operating Plants and Generation

Nuclear Power Plant Operating Challenges: Zero Dispatch

Building Block 3a Deficiencies



Louisiana's Existing Biomass Capacity

NREL Estimated Technical Potential for Onshore Wind Power by State

NREL Estimated Technical Potential for Biopower by State

Building Block 3b, Louisiana Renewable Requirements



Building Block 4, Energy Efficiency Deployment

Building Block 4 Deficiencies

EPA Rulemaking Timeline

Conclusions

LEL Control Strategy

Questions, Comments & Input