

Title: Carbon Dioxide Electricity Generation Prospect In Nigeria.

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Abstract: The need to meet up with the present energy demand in Nigeria calls for urgent mediation. Using the carbon dioxide data obtained from IEA through the ministry of Environment in Nigeria and the knowledge of bottoming power generation; the ability of Carbon dioxides exhaust gas from the power plant is exploited. Qualitative amount of power is estimated from the nation industrial Carbon dioxide potential generation. The result shows that an optimum amount of 564.7MW of electricity per year could be estimated from this power source; this is equivalent to 10.8% of projected power required for year 2030.

Therefore, using Carbon dioxide hybrid turbine a total amount of 1265MW of electricity could be spawned by year 2030. With these results it is concluded that Carbon dioxides powered turbine has better prospects in Nigeria energy needs.