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The effect of Kinetic Theory and Pressure Differentials on Post Combustion Coal gas Capture DANNITY ISIWELE, Samuel Adegboyega University, Ogwa, Edo State, Nigeria, MONDAY ALILE, University of Benin, Benin City, Nigeria, ELMER ISIWELE, Deep Green Geophysical Ltd, CHRIS AIGBOGUN, University of Benin, Benin City, Nigeria — The research used a direct heat exchange method through centrifugal air-cooled digester in capturing coal gas. The ambient temperature allows oxygen to re-enter the heat envelope and thus makes the combusted gases heavy to be injected. The application is very useful in coal fired power plants all over the world, as it will remove the menace of pollution.

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