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## Low Temperature Geothermal Waste Heat to Power Abstract

Texas and other states currently have a large demand for emergency and supplemental power to remote regions with little infrastructure. In Texas, many of these remote areas have significant oil and gas operations currently in place which have a high demand for onsite power during the various operations and life of a well. Most wells in Texas also produce significant amounts water and most wells are abandoned due to high water cuts. Much of this produced water is hot enough, due to reservoir depth, to be considered as a Low Temperature Geothermal (LTG) resource, meaning capable of electricity generation. This hot fluid combination of hydrocarbons and water can be run through an