

# Opportunity Track in Modernization Infrastructure for Thermal Power Plants in India- 2017

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## Abstracts

India, historically has been dependent upon coal based thermal generation at large to meet its base load requirements which indeed is a polluting source of energy generation. Cognizant of this fact tagged as one of the fastest growing economies of the world, India has positioned itself gradually to migrate the alternative sources of electricity generation. Of the current installed capacity of 188 GW coming from the coal based thermal power plants, it is anticipated (arguable) 40-50 GW shall meet up their useful plant life criterion shortly or certainly exceed 20 years of their operation. With, such capacities functional at lower efficiencies it is pertinent to replace the same with modernized infrastructure with supercritical units. Recognizing this, one of the India's largest thermal power generator NTPC limited has already announced a plan of replacing 11000 MW of aging capacity through supercritical units. With fresh order due to come only from CPSUs or the respective SEBs, the opportunity stands limited for the key value chain players. Following this scenario, modernizing the infrastructure, presence huge opportunity even if we consider 11 GW out of 40 GW of capacity. However, challenges are intermittent like land area availability and inclusive R&R implications, the capex in modernization, potential fuel supply security and obviously the power off take. This development demands an in-depth and holistic study which shall be unfolded in our latest research to demystify the potential involved around the modernization of coal based thermal power plants in short, medium and long term basis. We shall conduct in-depth primary research well supported model based analysis to project the "MW" tune in which the modernization and capacity expansion will be a reality by both 2022 in mid – term and 2030 by long term.

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