



# Thermal energy storage new delhi

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Become the leading organization in the field of thermal energy storage research and development

Design and develop market ready thermal energy storage based products and applications

Collaborate with national and international research institutions to develop new solutions based on TES

Make the centre financially sustainable by conducting externally funded research and development work

Human resource development through training and M.Tech, Ph.D. and post-doctoral research based work

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The increasing adoption of variable renewable energy sources necessitates that conventional base load power plants, particularly coal-fired plants, adapt to more flexible and variable operational patterns. This flexible operation of thermal power plants has led to several negative consequences like deterioration in heat rate and higher APC at partial loads, increased thermal and mechanical stress, reduced plant life, and higher rates of forced outages. To address these challenges, NTPC is actively seeking solutions to mitigate the adverse effects of flexible operations in thermal power plants. One promising approach is the integration of thermal energy storage systems (TESS), which can store excess energy from the boiler by diverting steam through the storage system.

Brief About the Technology/Works being carried out

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