

Utilizing Waste Heat from Thermal Power Plants to Generate Power by Modelling an Atmospheric Vortex Engine

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Abstract : Convective vortices are normal highlights of air that ingest lower-entropy-energy at higher temperatures than they dismiss higher-entropy-energy to space. By means of the thermodynamic proficiency, it has been anticipated that the force of convective vortices relies upon the profundity of the convective layer. The atmospheric vortex engine is proposed as a gadget for delivering mechanical energy by methods for artificially produced vortex. The task of the engine is in view of the certainties that the environment is warmed from the base and cooled from the top. By generation of the artificial vortex, it is planned to take out the physical solar updraft tower and decrease the capital of the solar chimney power plants. The study shows the essentials of the atmospheric vortex engine, furthermore, audits the cutting edge in subject. Moreover, the study talks about a thought on using the solar energy as heat source to work the framework. All in all, the framework is attainable and promising for electrical power production.

Keywords : AVE, atmospheric vortex engine, atmosphere, updraft, vortex

Conference Title : ICEFTA 2019 : International Conference on Environment-Friendly Technologies and Applications

Conference Location : Dubai, United Arab Emirates

Conference Dates : January 30-31, 2019