**Theoretical Design of Lightning Panel**

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**Abstract.** The light trapping device (LTD) was theoretically designed to suggests the best way of harvesting the energy derived from natural lightning. The Maxwell's equation was expanded using a virtual experimentation via a MATLAB environment. Several parameters like lightning flash and temperature distribution were consider to investigate the ability of the theoretical lightning panel to convert electricity efficiently. The results of the lighting strike angle on the surface of the LTD shows the maximum power expected per time. The results of the microscopic thermal distribution shows that if the LTD casing controls the transmission of the heat energy, then the thermal energy storage (TES) can be introduced to the lightning farm.