



Divergent solar power generation

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Simulations of divergent-chimney solar power plants (DSPPs) are conducted, and the DSPP performance studied by changing chimney outlet-to-inlet area ratios (COAR, representing the ...

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The combination of divergent chimney and convergent collector impacts in the pilot plant yields remarkably better electrical power output since both design concepts improves buoyant ...

Divergent Solar Chimney Power Plants (SCPPs) can achieve a 237 % power gain over conventional cylindrical chimneys, cutting construction costs by up to 70 %. Divergent SCPPs ...

Ohya et al using laboratory model solar chimneys found experimentally enhancement by a factor of 2-3-4. The present paper develops its own theoretical model and finds that efficiency is multiplied by ...

The experiments show that divergent solar chimney increases the theoretical power generation potential and improves the stalk effect and have ...

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LI Defei, GUI Haoyu, LIU Yang, et al. Performance analysis of divergent solar chimney power plant system based on 3D turbine [J]. Thermal power generation, 2020, 49 (6): 46-52.

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