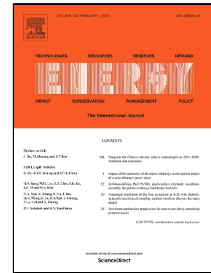


# Accepted Manuscript

Innovative configuration of a hybrid nuclear-solar tower power plant

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External superheating of nuclear steam with solar thermal energy is proposed.

Novel hybrid plant configuration is assembled, modeled and simulated.

Substantial increase of nuclear plant capacity and efficiency is reported.

Superior efficiency of solar heat to electricity conversion is achieved.

Substantial decrease of solar field investment cost is reported.

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