

**SSEPP - Space-based Solar Energy Power Plant
for electric power generation
with a closed cycle gas turbine running on Helium**



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ABSTRACT

The features of a Space-based Solar Energy Power Plant for electric power generation with a closed cycle gas turbine running on Helium are discussed. The system is intended for generating both electricity and process heat for industrial manufacturing processes in a large space station. A system overview for operation and control of such a plant is presented.