

SPACE POWER SYMPOSIUM (C3)
Wireless Power Transmission Technologies, Experiments and Demonstrations (2)

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THE CURRENT STATUS OF MICROWAVE POWER TRANSMISSION FOR SSPS

Abstract

Japan Space Systems (J-SPACESYSTEMS) has been studying wireless power transmission (WPT) from the beginning of 2000. In this study, we have focused on the microwave power transmission as a key technology for the realization of future Space Solar Power System (SSPS). J-SPACESYSTEMS group have been kept on developing high efficient microwave transmission and receive system. The result of the first stage development was demonstrated as a ground wireless transmission experiment in March 2015. We have conducted the ground WPT experiments project which includes kW level electrical power, under

the contract of Ministry of Economy, Trade and Industry (METI) from FY2009 to FY2014. More than
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