

IAF SPACE POWER SYMPOSIUM (C3)  
Solar Power Satellite (1)

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## FORMING AN INTERNATIONAL SPACE SOLAR POWER PROGRAM

**Abstract**

During the past several years, the International Academy of Astronautics (IAA) has conducted a decadal re-assessment of the topic of Space Solar Power (SSP), first examined during 2008-2011. Although this study, started in 2019 has been impacted by the COVID-19 pandemic – as have so many other endeavors – it is now nearing completion. During these years, there have been quite remarkable changes in the global context for SSP, including increasing concerns regarding climate change, new programs and plans by various countries, and advances in key capabilities (such as low-cost launch). In 2021, the IAA formed a new, Permanent Committee on the topic of SSP to better frame and coordinate international activities addressing this emerging carbon net-zero energy option. This paper will present a status report on the ongoing IAA decadal study of space solar power and will sketch current planning for the newly-formed IAA Permanent Committee on SSP. Together, these efforts may garner support for a globally-coordinated effort to realize the goal of large-scale, affordable carbon net-zero space solar power for humanity.