

BUSINESS INNOVATION SYMPOSIUM (E6)  
New Space Markets + Investment Opportunities (3)

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A RATIONAL ROADMAP FOR DEVELOPING A FIRST REVENUE SPACE SOLAR POWER  
SATELLITE

**Abstract**

Niche markets (military installations, developing nation remote power, etc.) may be a potential markets where Space Solar Power (SSP) satellites may be economically viable, given certain government support and Earth-to-Orbit launch cost assumptions. There have been concepts for SSP demonstrators. It is advocated here that such a demonstrator should include an actual post-demonstration phase revenue production capability. Such a capability would demonstrator not just the technical readiness of such a system, but also the operational readiness and revenue generation potential for a specific customer (government or commercial). This paper examines such a concept, referred to a First Revenue SSP Satellite in terms of the overall plan and potential economics of such a system. A notional SSP architecture is taken as a case study for this examination. This approach may be a more rational, market-based approach to actual implementation of SSP.