



# HOW TO BE SUSTAINABLE IN SPACE





**Space Sustainability**— The primary focus of the Secure World Foundation is on space sustainability – the ability of all humanity to continue to use outer space for peaceful purposes and socioeconomic benefit over the long term.

By default, space missions must be as sustainable as possible because supplies are limited on spacecraft. A Moon base that does not rely on regular supply missions is more viable and could last indefinitely if it created its own fuel from local resources and solar energy. **ESA** has been working for over 25 years to create a portable ecosystem so that astronauts can bring a self-contained atmosphere-in-a-box that will supply oxygen, water and food while processing their waste.

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GEN. JOHN HYTEN,  
AFSPC COMMANDER, 2015  
SMALLSAT CONFERENCE**





Throughout the years, the **Committee on the Peaceful Uses of Outer Space** has considered different aspects of the long-term sustainability of outer space activities. Building on previous efforts, in 2010 **the Scientific and Technical Subcommittee** began considering as an agenda item the long-term sustainability of outer space. A Working Group on the Long-term Sustainability of Outer Space Activities was established, the objectives of which included identifying areas of concern for the long-term sustainability of outer space activities, proposing measures that could enhance sustainability, and producing voluntary guidelines to reduce risks to long-term sustainability. The Working Group and its expert groups addressed thematic areas including sustainable space utilization supporting sustainable development on Earth; space debris, space operations and tools to support collaborative space situational awareness; space weather; and regulatory regimes and guidance for actors in the space arena.

