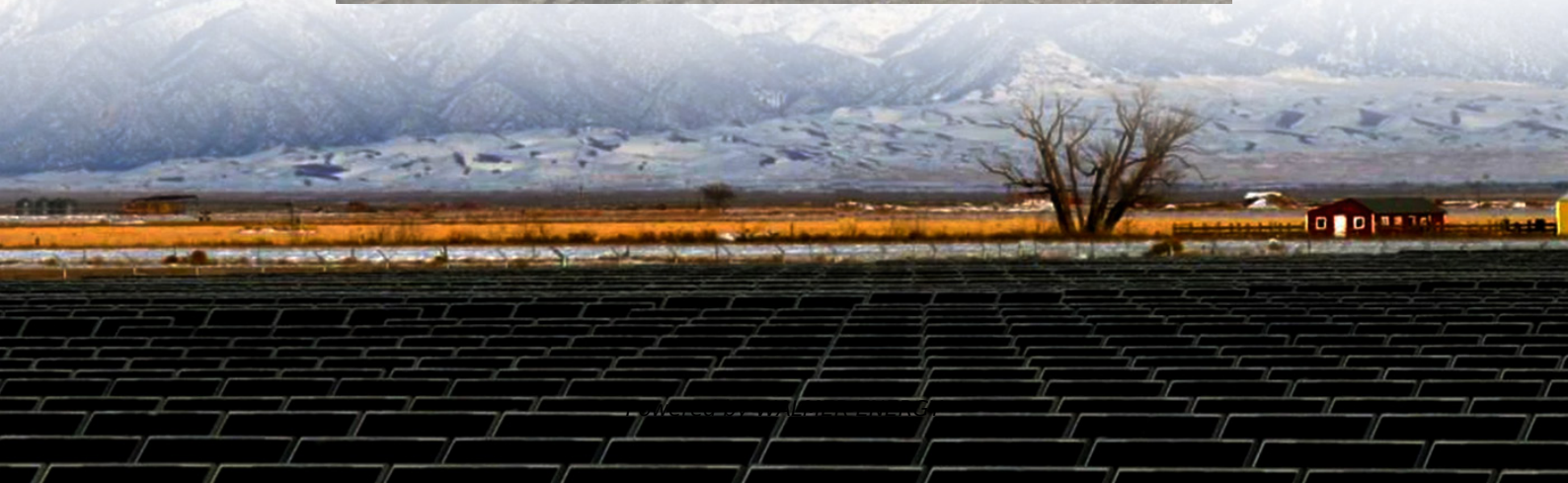


# **How much does the frequency of a small solar container communication station cost**





## Overview

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What frequency does smallsat use?

Radio frequency communications for spacecraft are conducted between 30 MHz and 60 GHz. The lower frequency bands (up to S-band) are typically more mature for SmallSat use, however extensive use of these bands has led to crowding and challenges acquiring licensing.

What is NREL's solar-plus-storage cost benchmarking work?

This work has grown to include cost models for solar-plus-storage systems. NREL's PV cost benchmarking work uses a bottom-up approach. First, analysts create a set of steps required for system installation.

How does a satellite RF communication system work?

A small satellite RF communications system consists of a transceiver comprised of a radio, an amplifier, and an antenna. Radios receive a message from the Command and Data Handling (CDH) subsystem, then produce and modulate an electromagnetic wave to create a signal. They are responsible for generating the signal and modulating or demodulating it.

Are K-band communication systems a good choice for smallsat?

Ku-, K-, and Ka-band communication systems are the state-of-the-art for large spacecraft, especially in spacecraft-to-spacecraft communications, but they are still young technologies in the CubeSat world. They are becoming more attractive to SmallSat designers as the lower frequencies become more congested.



## How much does the frequency of a small solar container communication

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