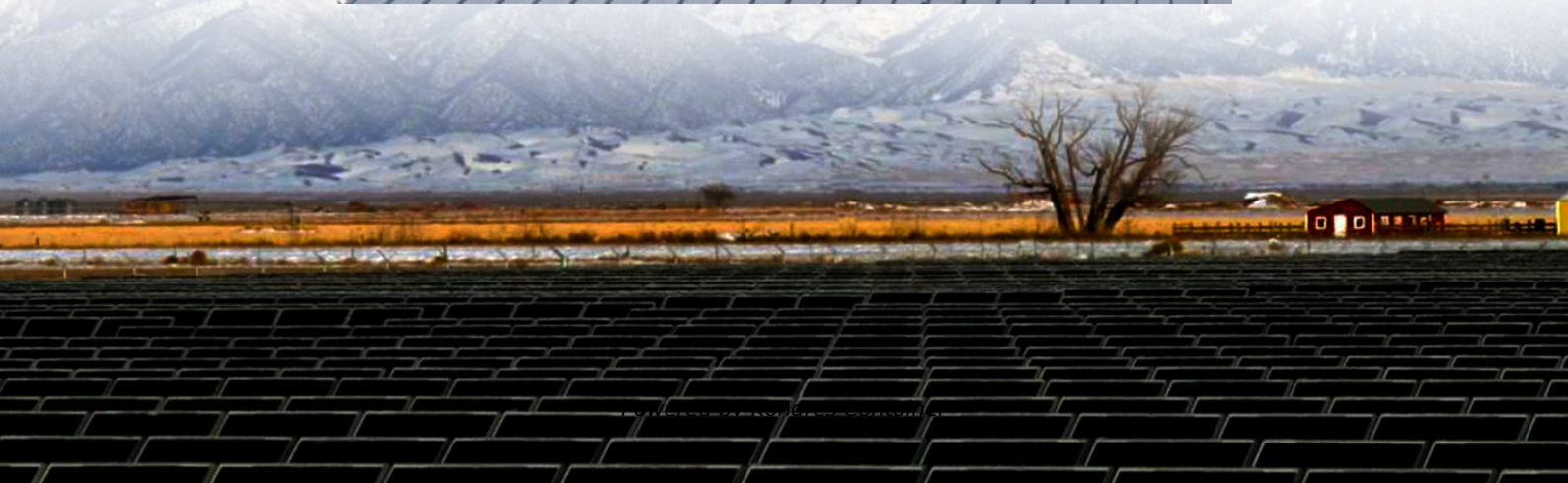


## Kongres Container

# Power generation used by ground base station communications



## Overview

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Some commercial ground-station-as-a-service solutions that support GNU Radio modems are Azure Orbital Ground Station and AWS Ground Station. Another example is the open-source community-driven SatNOGS network.

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If an adjacent base-station transmission (UTRA or LTE) is detected under certain conditions, the maximum allowed Home base-station output power is reduced in proportion to how weak the adjacent base-station signal is, in order to avoid interference to the adjacent base station.

An AERPAW experiment can deploy ground users and UAVs, where the UAV can implement an ABS that uses the proposed method to position itself for serving a legitimate user and control the transmission power in such a way to maximize the user rate in the presence of an eavesdropper.

This paper proposes an antenna solution for direct air-to-ground (ATG) communications, particularly focusing on the challenges and potential of the digital airspace vision.

Satellite technology facilitates telecommunications, security and technological development. This paper presents a simple satellite ground station system for educational advancement and motivation of students' interest in the field of space engineering and satellite for development.

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