

# **5G solar container communication station inductor**





## Overview

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Should solar panels be used in 5G base stations?

Adopting solar panels in 5G base stations is expected to reduce dependency on traditional grid power sources, thereby decreasing energy usage and operational expenses, and supporting the goal of achieving netzero emissions in communication systems.

Can solar panels be integrated with a MIMO antenna array?

Additionally, the feasibility of integrating solar panels with the proposed MIMO antenna array is shown.

Can a MIMO antenna array be electronically reconfigured using PIN diode switches?

Abstract: This paper presents a novel MIMO antenna array configuration that incorporates metamaterial isolation surfaces to enhance overall performance. It was demonstrated that the directivity of this antenna array can be precisely electronically reconfigured using PIN diode switches.



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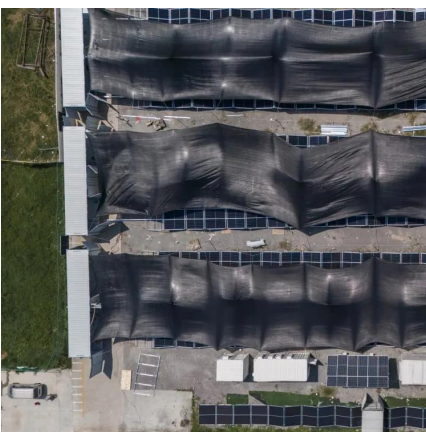
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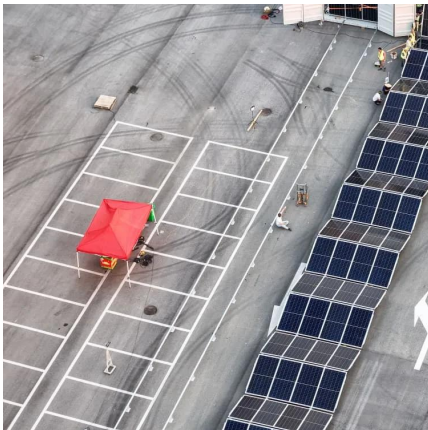
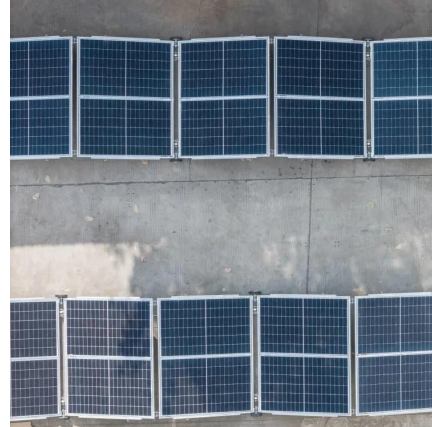
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