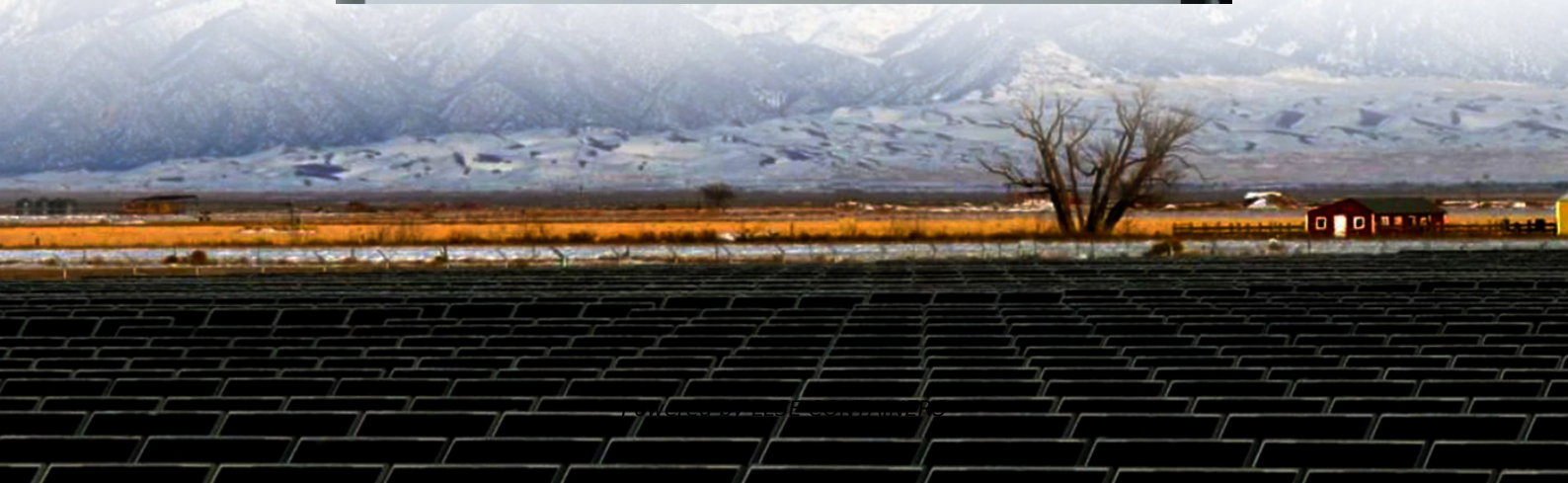


Lora solar container communication station energy storage





Overview

Can a solar energy harvesting Lora sensor prolong the life of a sensor?

By modeling an energy-harvesting LoRa sensor from real-world solar-energy harvesting measurements, we found that carefully freeing up the space of energy storage before the arrival of superfluous solar-energy can remarkably prolong sensor lifetime, and reduce a waste of solar energy available in the environment.

What are LoRa devices used for?

Currently, LoRa devices are used in various IoT applications to address some of the world's biggest challenges ranging from smart cities , transportation , energy management , health monitoring , pollution control and smart farming . . .

What is LoRa technology?

LoRa is a technology developed by Semtech Corporation and it's designed for reduced infrastructure, is scalable and may be used for large areas within a radius of 2-3 km in urban and more than 10 km in rural areas, respectively . The communication stack can be seen in Figure 3.

What is long-lived Lora (LLL)?

Unlike the algorithms above, Long-Lived LoRa (LLL) is a medium access control (MAC) protocol that enables peer-to-peer communications in a LoRa network. Precisely, LLL prolongs the lifetime of the LoRa network by allowing sensors with superfluous energy residuals to relay data on behalf of sensors having scarce energy storage.



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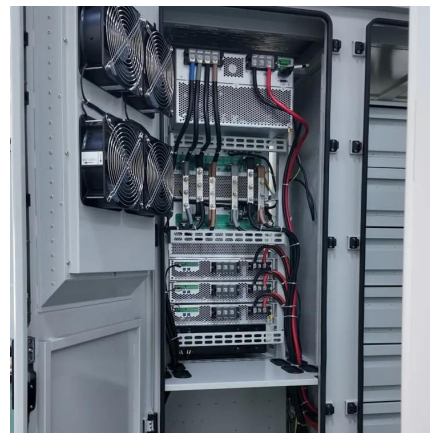
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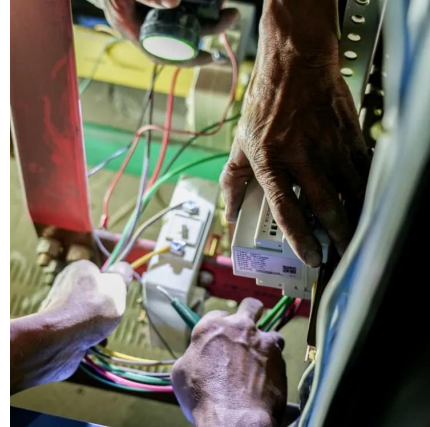
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