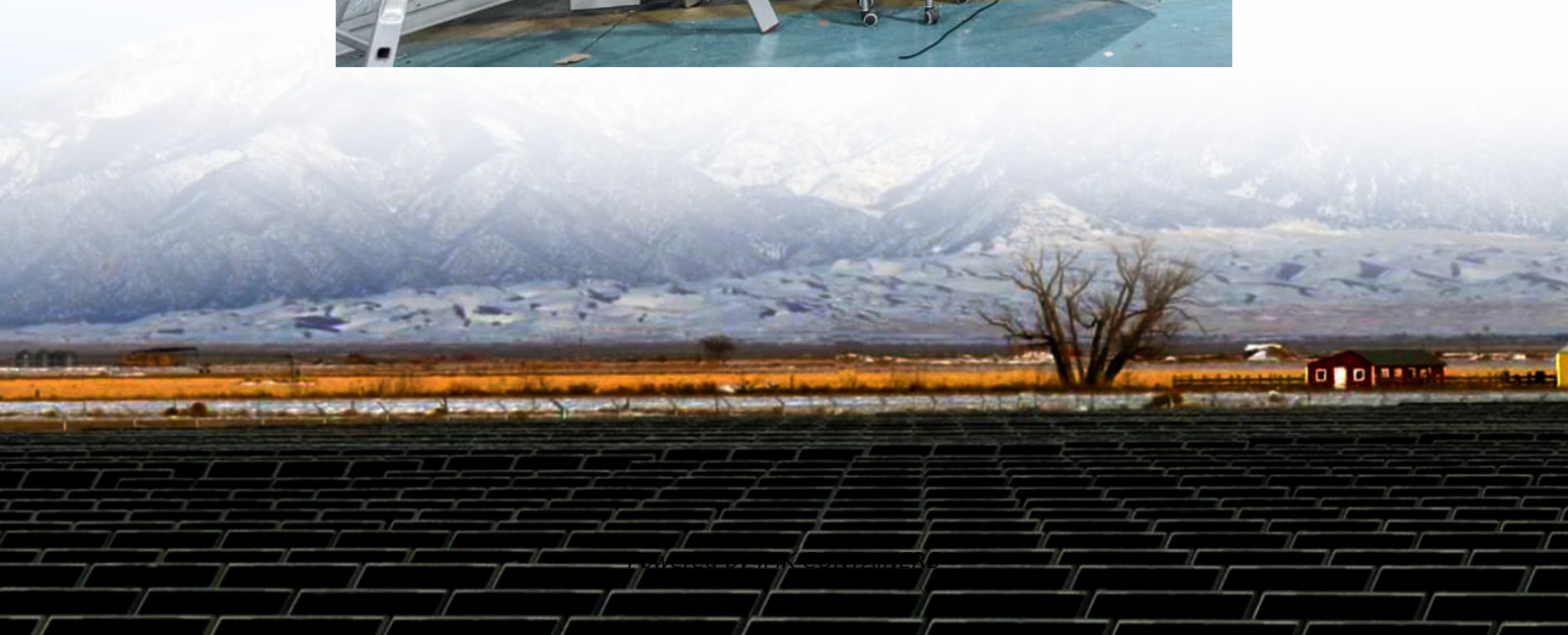


# **Mobile base station power supply wind power**





## Overview

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Can solar and wind provide reliable power supply in remote areas?

Solar and wind are available freely and thus appears to be a promising technology to provide reliable power supply in the remote areas and telecom industry of Ethiopia. The project aims generate and provide cost effective electric power to meet the BTS electric load requirement.

Can a hybrid solar and wind power system provide reliable electric power?

This paper presents the solution to utilizing a hybrid of photovoltaic (PV) solar and wind power system with a backup battery bank to provide feasibility and reliable electric power for a specific remote mobile base station located at west arise, Oromia.

How much electricity does a PV/wind/battery hybrid system produce?

Monthly average electricity production of PV/Battery hybrid system. 5.1.2. PV/Wind/Battery configuration are DC. The result is based upon the system with 41.4 kWh/day telecom load at 5.83 kWh/m solar radiation, 3.687m/s of wind speed and \$0.8/L diesel price.



## Mobile base station power supply wind power

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### Optimal sizing of photovoltaic-wind-diesel-battery power supply ...

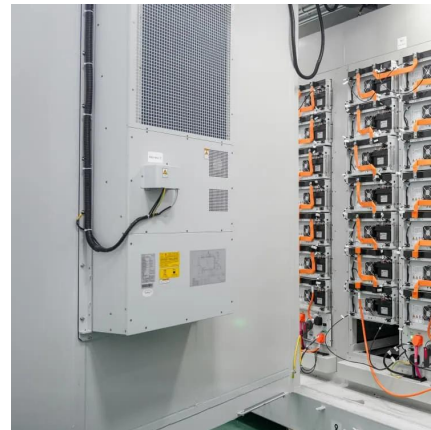
Abstract The paper proposes a novel planning approach for optimal sizing of standalone photovoltaic-wind-diesel-battery power supply for mobile telephony base stations. ...

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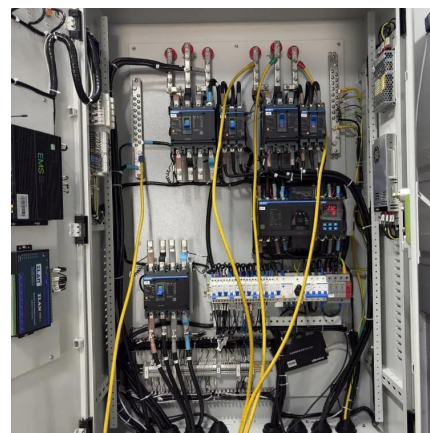
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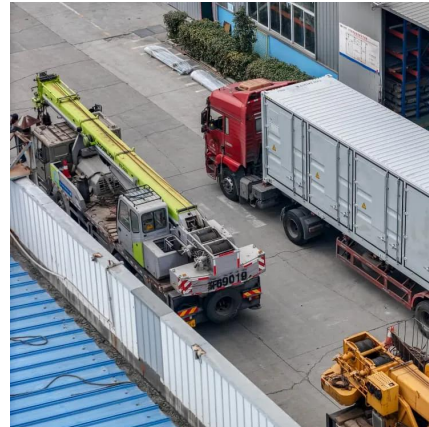
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