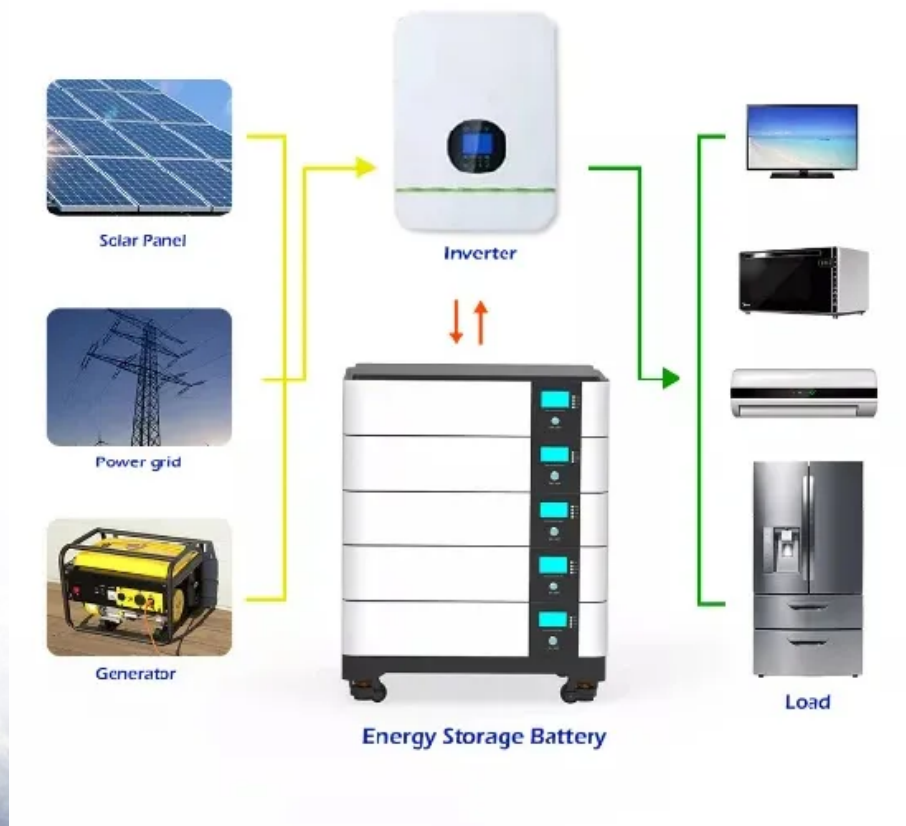


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Cuba forest fire prevention solar container communication station wind and solar complementarity



Overview

Is Cuba a vulnerable energy system?

Cuba is currently in a vulnerable energy situation since it strongly depends on the importation of fossil energy. Strategies based on intermittent RES (solar and wind) can reduce this vulnerability, but the introduction of this type of source impacts the energy system's characteristics and aspects at a country/regional scale.

How can solar and wind power improve energy security in Cuba?

Every time solar and wind capacity is progressively increased, Cuban authorities will save on fuel costs and achieve environmental improvements and energy security. The money saved could be gradually reinvested in new solar and wind power installations.

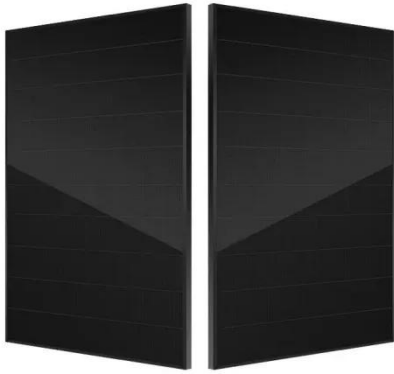
Can intermittent sources reduce fossil fuel importation in Cuba?

This allows the description of the trends of the changes in the energy system and the evaluation of the benefits linked to a progressive introduction of intermittent sources. Scenarios for Cuba correspond to a progressive introduction of intermittent sources to reduce fossil fuel importation.

How can Cuba improve energy security?

In the Int-a and Int-b scenarios, Cuba still needs to import refined fuels which are mainly required by the industrial and transport sectors. Therefore, energy security can be improved by reducing the oil subproducts demanded by these activity macro sectors (i.e. MS1 and MS7).

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...

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By incorporating advanced technology and innovative design, the solar-powered fire detection system aims to offer a more reliable and effective early warning system for forest fires.

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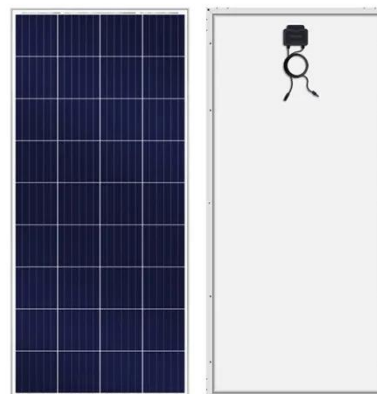
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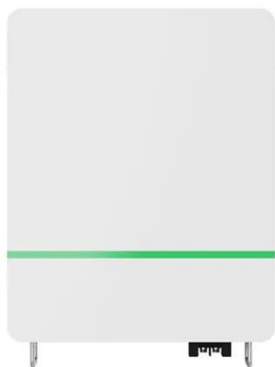
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