

# Comparison of 2MW Photovoltaic Containerized Procurement with Traditional Generators





## Overview

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The procurement auction scheme for long-term photovoltaic (PV) energy contracts is being implemented in various countries to ensure stable profits for potential PV generators. However, in most of the.

Are renewable power plants a viable solution to the procurement problem?

For these reasons, to consider the possibility of signing procurement contracts with renewable power plants and the installation of a renewable self-production unit in the procurement problem of a large consumer is relevant today for decision makers.

Can a large consumer install a solar PV unit?

We consider that a large consumer has an appropriate location for installing a solar PV unit with a maximum capacity of 2.5 MW.

Why are PV self-generation units becoming more popular?

The technological advances and the high decrease of the prices of the components of PV installations has caused a remarkable rise in the number of PV self-generation units installed in households and industries over the last years.

Is the cost of a PV unit underestimated?

The expected cost of the consumer is underestimated 4% if the sale of surplus energy of the on-site PV unit is not properly modeled using a mixed-integer linear formulation that explicitly considers the case in which the on-site generation exceeds the consumer demand.



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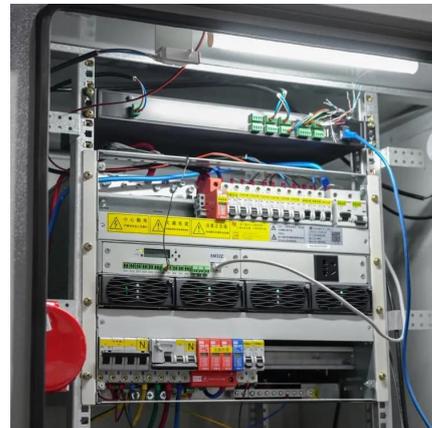
The main purpose of this study is to design an optimal procurement auction for long-term PV contracts considering the uncertainty of the power generation efficiency of PV generators ...

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In this regard, this study proposes a procurement auction scheme for long-term photovoltaic (PV) energy contracts based on mechanism design theory. We developed a two ...

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The following points highlight these differences:  
Design: Traditional generators are typically exposed and less weather-resistant versus protected Container Gensets. Mobility: ...

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[Comparison the Combination of Different Power ...](#)

1 Introduction The depletion of the fossil fuel reserves and the pollution caused by the conventional energy sources has made necessitous the exploitation of Renewable Energy ...

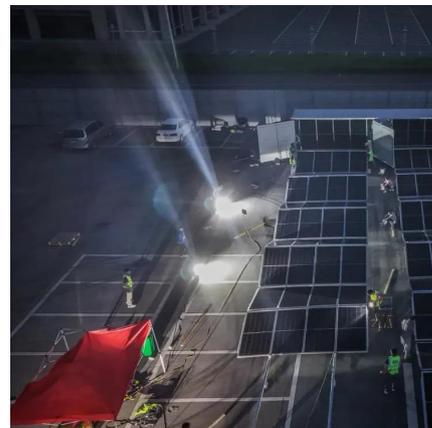
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**Market ...**

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