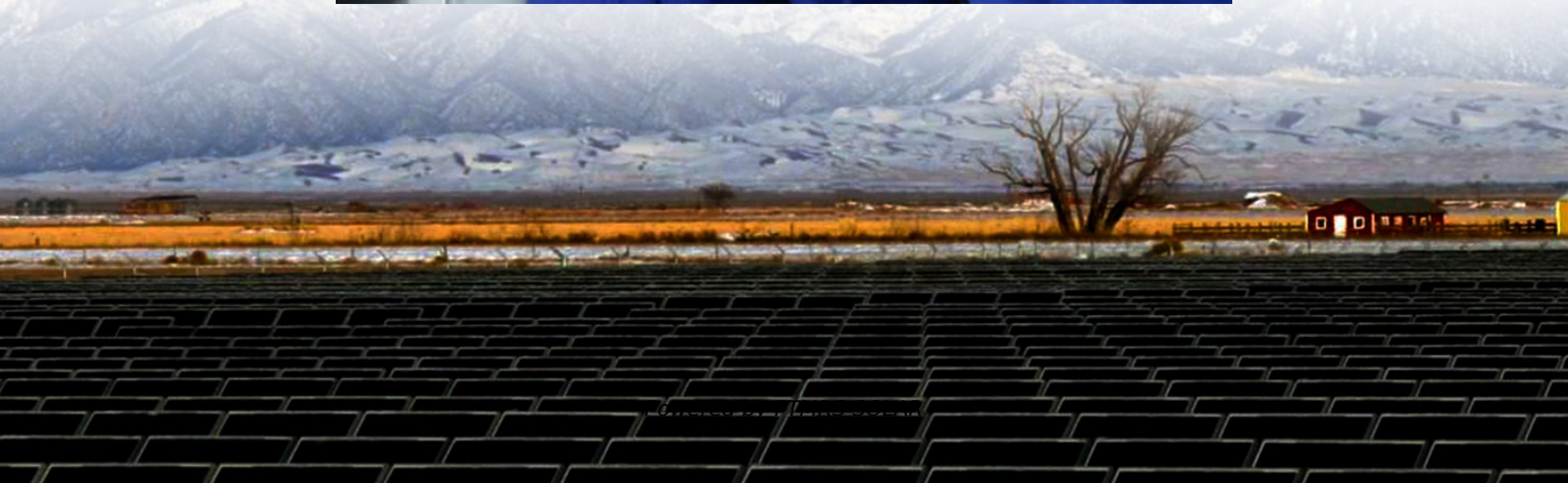


# **Off-grid photovoltaic containerized type for oil platforms**





## Overview

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Can a battery-integrated solar PV system support an offshore environment?

Although the LCOEs of the designed battery-integrated system were found to be higher than a typical on-grid solar PV system commonly installed over lakes or dams to support a national energy portfolio, an offshore environment essentially requires an energy storage solution.

Can a battery-integrated floating solar photovoltaic system be installed in Abu Dhabi?

This paper investigates the techno-commercial feasibility of installing a battery-integrated floating solar photovoltaic (FPV) system for an offshore oil platform facility in Abu Dhabi. The performance analysis of two floating PV design schemes has been evaluated using the PVsyst design tool.

Are floating PV systems feasible in the offshore environment?

A review of existing literature shows that many studies of floating PV systems have been conducted globally. However, studies on the offshore environment, particularly its technical and economic feasibility, are still limited.

What is the LCOE of Battery-integrated floating PV system?

The analysis showed that the LCOE of the battery-integrated floating PV system is at the level of 261–349 USD/MWh, which is aligned with the case study conducted for off-grid solar PV in Indonesia with the LCOE range from 290 to 310 USD/MWh [ 25 ]. 4.4.2. Net Present Value (NPV) and Discounted Payback Period (DPP)



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PCIC Europe Authors Kit

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