

# **Economic Benefits Comparison of 1MW Photovoltaic Containerized Systems for Hospitals**





## Overview

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How will a combined solar collector & PV system help healthcare facilities?

By creating a combined solar collector and PV system, the proposed system aims to generate renewable energy and reduce the healthcare facility's reliance on grid power. This will lead to a reduction in energy costs, improved energy efficiency, enhanced sustainability, and increased energy security.

Are solar energy systems a good investment for healthcare facilities?

The study highlights the potential benefits of solar energy systems in terms of energy efficiency, cost savings, and environmental sustainability, with implications for healthcare facilities in the region and beyond.

Can a multi-Solar System be used in healthcare facilities?

The research aims to investigate the impact of adding multi-solar collector and photovoltaic systems to healthcare facilities, analyze the system's thermodynamic efficiency in terms of energy and exergy, assess its technical and economic viability, and gauge the adoption rate of solar systems by healthcare technical departments.

Why should a healthcare facility use a PV system?

The DC voltage supplied by the PV system can be integrated with the existing storage units, reducing cost and maintenance requirements. Both systems enhance the resiliency of the healthcare facility in case of emergencies. In addition, renewable energy further provides environmental and economic benefits.



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