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2.1 Solar photovoltaic systems. Solar energy is used in two different ways: one through the solar thermal route using solar collectors, heaters, dryers, etc., and the other through the solar electricity route using SPV, as shown in Fig. 1.A SPV system consists of arrays and combinations of PV panels, a charge controller for direct current (DC) and alternating current ...

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L.G. Valladares-Rendon, G. Schmid, S.-L. Lo, Review on energy savings by solar control techniques and optimal building orientation for the strategic placement of facade shading systems, Energy Build. 140, 458-479 (2019) [Google Scholar]

Solar photovoltaic (PV) energy; latest developments in the building integrated and hybrid PV systems. Renew Energy, 31 (2006), ... View PDF View article View in Scopus Google Scholar [32] S. Mekhilef, R. Saidur, A. Safari. A review on solar energy use in industries. Renew Sustain Energy Rev, 15 (2011), pp. 1777-1790. View PDF View article View ...

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Employing sunlight to produce electrical energy has been demonstrated to be one of the most promising solutions to the world"s energy crisis. The device to convert solar ...

Solar photovoltaic (SPV) materials and systems have increased effectiveness, affordability, and energy storage in recent years. Recent technological advances make solar photovoltaic energy generation and storage sustainable. The intermittent nature of solar energy limits its use, making energy storage systems are the best alternative for power generation. Energy storage system ...

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