

In this paper an efficient framework based on a hybrid heuristic approach is proposed to find the appropriate capacity and location for stand-alone, remote photovoltaic/battery schemes. The framework evaluates the total area of photovoltaic panels and the size of the ...

The development of residential solar photovoltaic has not achieved the desired target albeit with numerous incentive policies from Chinese government. How to promote sustainable adoption of residential distributed photovoltaic generation remains an open question. This paper provides theoretical explanations by establishing an evolutionary game model ...

Several researchs analyzed the solar access of urban areas and neighborhood designs, in different countries around the world employing various simulation tools, such as Energy Plus, e-QUEST,...

The solar photovoltaic (PV) power generation system (PGS) is a viable alternative to fossil fuels for the provision of power for infrastructure and vehicles, reducing greenhouse gas emissions and enhancing the sustainability of road transport systems. A highway slope is generally an idle public area with high accessibility, which is the ideal application scenario for a ...

To address these problems, this study aims to establish an assessment method for the PV generation potential of highway slopes based on the design or measured geometric parameters of the slope, the highway orientation, and the ...

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The analysis shows that the annual power generation capacity of the photovoltaic power generation system can reach 141.9 MWh, which indirectly saves 283.800 MWh in the thermal power generation shop and can replace thermal power generation to a certain extent. By upgrading the existing structure of the hospital, 1845.586 MWh of electricity can be effectively ...

Distributed photovoltaic (PV) power system refers to the distributed generation system which converts the solar energy into electric energy using PV components. It is a new and widely used way of comprehensive utilisation of power and energy. It advocates the principle of nearby power generation, nearby grid connection, nearby conversion, and ...

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