Research on solar power generation and utilization technology

Over the next decades, solar energy power generation is anticipated to gain popularity because of the current energy and climate problems and ultimately become a crucial part of urban infrastructure.

Solar thermal power generation technology research. Yudong Liu *, Fangqin Li, Jianxing Ren, Guizhou Ren, Honghong Shen and Gang Liu. ... among which photovoltaic power generation technology is the most mature solar photovoltaic power utilization technology at ...

In addition, a comparison is made between solar thermal power plants and PV power generation plants. Based on published studies, PV-based systems are more suitable for small-scale power ...

Solar power is the conversion of sunlight into electricity, either directly using photovoltaic (PV), or indirectly using concentrated solar power (CSP). The research has been ...

This paper, therefore, reviews the progress made in solar power generation research and development since its inception. Attempts are also made to highlight the current and future issues involved in the generation of quality and reliable solar power technology for future applications. ... In current technology condition, utilization of tracking ...

Solar power generation is a sustainable and clean source of energy that has gained significant attention in recent years due to its potential to reduce greenhouse gas emissions and mitigate ...

Based on global distribution of solar energy and its feature, this paper discusses a review about solar energy"s utilization techniques, mainly discusses the latest development of...

International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06 Issue: 06 | June 2019 p-ISSN: 2395-0072 ... Solar Power Generation, Utilization and Monitoring Using Internet of Things ... Things Technology for supervising solar photovoltaic power generation can greatly enhance the performance ...

However, the transformation from traditional methods of power generation, usually based on fossil fuels, to power generation based on renewable resources presents many challenges associated with ...

Corresponding author"s e-mail:593617953@qq Solar thermal power generation technology research Yudong Liu1, Fangqin Li1, and Jianxing Ren1, Guizhou Ren1, Honghong Shen1, and Gang Liu1 1Colleg of Energy and Mechanical Engineering, Shanghai University of Electric Power, Shanghai, China Abstract ina is a big consumer of energy resources.

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Through a systematic literature survey, this review study summarizes the world solar energy status (including concentrating solar power and solar PV power) along with the published solar energy potential assessment articles for 235 countries and territories as the first step toward developing solar energy in these regions.

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