



太阳能技术及其并网特性综述  
张抒阳, 张沛, 刘珊珊

摘要: 太阳能是继风能之后又一个无污染、高效率的新能源, 有巨大的应用前景。文章介绍了光伏太阳能技术和热力太阳能技术的原理和特性。光伏太阳能技术通常以较小的规模在配电层面上使用, 而热力太阳能技术则以较大的规模在输电层面上使用。文章指出由于技术上差异所致两种太阳能接入电网策略不同之处。根据美国新能源发展的策略和经验结合中国的情况提出对中国太阳能技术发展的看法和建议。

关键词: 太阳能; 光伏太阳能; 热力太阳能; 并网

Overview of Solar Energy Technology and Its Integration Issues

ZHANG Shuyang, ZHANG Pei, LIU Shanshan

Abstract: Solar is a new clean, highly effective renewable energy with tremendous application potentiality after wind. This paper introduces the principle and characteristics of photovoltaic (PV) electric and solar-thermal electric technologies. Photovoltaic electric technology is usually used in a smaller scale at distribution level while solar thermal electric technology is used in a larger scale at transmission level. It is pointed out that the integration strategies for these two kinds of solar technology are different due to their technical difference. Certain opinion and advice on the development of solar technology in China are presented based on the renewable energy strategy and experience in the USA as well as the situation in China.

Key words: solar; photovoltaic; solar-thermal; interconnection and integration

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