

2009년 태양광발전소 월별 및 지역별 이용률 분석

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Monthly & regional utilization factor of PV Plants in 2009, Korea

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KPX(Korea Power Exchange) has been supervising FIT(Feed-in-tariff) for renewable energy power plants and supported 289MW photovoltaic power plants with Electric Power Industry Basis Fund in 2009. In this paper, we'll analyze utilization factor of these PV power plants in 2009 and for the latest 3 years and finally utilization factor of other renewable energy power plants in 2009.

Key words : Photovoltaic Plants(태양광발전소), Renewable Energy(신재생에너지), Feed-in-tariff(발전차액지원제도), Utilization Factor(이용률)

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태양광발전 계통연계 실증시험장 구축에 관한 연구

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The study on construction of the practical testing ground of grid-connected photovoltaic system

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Currently the variety of governmental business support and research for supplying solar energy have been actively progressed. As of now, however, There are no practical testing infrastructures of grid-connected photovoltaic system which test performance of solar power facility in domestic. Therefore, in KEPRI, there is in progress construction of practical testing ground of 500 kW class grid-connected PV System for developing the evaluation of the performance technology including the Module, PCS, and etc, that is the important instrument of the PV System, in Gochang area. It analyzed the site creation work for constructing the practical testing ground and new construction of control room and the unit standards, specifications and capacity of required equipment. For the system detailed design, configuration, instrument-specific parameters established, power generation predictions of Array Type and the components of testing ground are needed to build.

Key words : Grid-connected PV System(계통연계형 태양광발전 시스템), BOS; Balance of System(주변기기), PCS; Power Conditioning System(전력변환장치), Solar cell module(태양전지모듈)

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