

Distributed energy systems vaduz

Distributed energy resources (DERs) is key to sustainable development of energy, which has the advantages of high energy efficiency, environmental protection and high reliability. This paper dividing DERs into four types: combined heat and power, renewable energy, energy storage and fuel cells and discusses it from two aspects: technical principle and development. In general, DERs seek to maximize the benefits of energy, environment and economy. But the main factor affecting users' choice of distributed energy is economy.

?,-;,,,--?IEA,2050(solar photovoltaic, PV)16%,(solar thermal electric power generation, STE)11%?,,,?2018,13,750 MW[17]?50 MW?100 MW?50 MW200 MW2018?,?,?

(fuel cell, FC),[29]?,,?,,;?,NO_xSO_x?,,,?,?(alkaline fuel cells, AFC)?(phosphoric acid fuel cells, PAFC)?(polymer electrolyte fuel cells, PEMFC)?(molten carbonate fuel cells, MCFC)(solid oxide fuel cells, SOFC),4[10,30]?AFC?PEMFC,?MCFC?SOFC,?50%,60%?100~200 kWPAFC[31,32]?

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