

COMPARATIVE CHARACTERISTICS OF SOLAR POWER EFFICIENCY IN LEADING COUNTRIES WORLDWIDE

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There is performed a comparative analysis of solar power efficiency in individual regions and leading countries across the world and in Ukraine. It is estimated that amongst some regions, the leadership belongs to North America countries. The leader of solar power efficiency is Spain. Its dominant positions are determined by the high solar intensity in comparison with other European countries and the current legal requirements obliging owners of new facilities to install a certain amount of solar inverters during construction. It should be mentioned that such an approach allows minimizing line losses while transmission of

electricity since a major part of the electricity produced is consumed by the producer itself. It is confirmed that solar power efficiency in Ukraine is at the mean European level that is largely due to solar power plants located in the southern regions of the country with higher solar radiation intensity and use of up-to-date equipment. It is recommended to divide further investigation into two separate directions, one of which is a comparison study of operational efficiency for large solar plants, and another one is an analysis of the operation of small solar facilities mounted on building roofs and walls.