**DOI:** https://doi.org/10.15407/techned2016.05.052

# SIMULATION OF MODES OF ELECTRIC NETWORKS OF MEDIUM VOLTAGE WHEN CONNECTING SOLAR POWER PLANTS

Journal Tekhnichna elektrodynamika

Publisher Institute of Electrodynamics National Academy of Science of Ukraine

ISSN 1607-7970 (print), 2218-1903 (online) Issue № 5, 2016 (September/Oktober)

Pages 52-54

#### **Authors**

## A.F. Zharkin, V.O. Novsky, D.O. Malakhatka

Institute of Electrodynamics National Academy of Science of Ukraine, pr. Peremohy, 56, Kyiv-57, 03680, Ukraine,

e-mail: novsky@ied.org.ua

### Abstract

Simulation Modeling of work regimes of solar power plants (SPP) and medium voltage (MV) network with them is executed. The influence on quality of electrical energy in a point of common connection (PCC) in dependence from power plants parameters and point of common connection deployment in the distribution MV network, as well solar power radiation level is defined. References 2, figures 4.

*Key words*: quality of electric energy, solar power plant, distribution network.

Received: 25.01.2016 Accepted: 05.04.2016 Published: 13.09.2016

## References

- 1. Kyrylenko O.V., Pavlovskyy V.V., Yandulskyy O.S., Stelyuk A.O. Control of power plant with renewable energy sources in condstson of changing frequency in power system. *Tekhnichna Elektrodynamika*
- . 2012. No 4. P. 52-57. (Ukr.)
- 2. Ahmed A. Elserougi, Ayman S. Abdel-Khalik. A Grid-Connected Switched PV Array. IECON2015-Yokohama. November 9-12, 2015. Pp. 68-70.

**PDF**