Comparing the linear and square models for defining the power system frequency static response slope based on transient synchrophasor data. Berdin A. S., Gerasimov A. S., Kovalenko P. Y., Udin A. V.

The possibilities of utilizing the linear model for defining the power system frequency static response slope based on synchrophasor data of transients accompanied by frequency changes, assumed in previous publication, is investigated in detail. Square model usage is considered. The comparison is done using 13 recordings of events that caused frequency deviations in Northern part of Tyumen region including four considered in the previous publication.

Keywords: load frequency static response, slope factor, wide area monitoring system, WAMS, electromechanical transient, Northern part of Tyumen region.