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Defining the power system frequency static response slope based on transient synchrophasor data.

The method for defining the power system load frequency static response based on synchrophasor measurements during transients accompanied by frequency deviations is proposed. The method was successfully validated involving four events resulting in frequency deviations of up to 0,06 Hz magnitude in the Northern part of Tyumen region and recorded by means of the System operator WAMS.

Keywords: load static response, slope factor, WAMS, electromechanical transient, Northern part of Tyumen region.