

Reliability Indexes for Variable Energy Resource Generation in IEEE Standard 762-2023

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IEEE Standard Definitions for Use in Reporting Electric Generating Unit Reliability, Availability, and Productivity has recently been revised to extend the standard to variable energy resource (VER) generating facilities. The revision includes definition that distinguish between equipment performance and the availability of a generator for system reliability analysis purposes, and generation-based reliability indexes for VER units corresponding to the traditional time-based indexes in previous versions of the standard. The revision also includes definition of critical period indexes, where the critical period is specified as hours of high system need. This paper describes the new terms and outlines issues with their definition.