

Review

# A Systematic Review of Reliability Studies on Composite Power Systems: A Coherent Taxonomy Motivations, Open Challenges, Recommendations, and New Research Directions

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**Abstract:** Power systems has been subjected to significant upgrades in terms of structure and capacity. Reliability evaluation of composite power systems has surfaced as an essential step in operation and planning stages of the modern power system. It is an effective tool to investigate the ability of power systems to supply customers with reliable power service. The purpose of this review is to enhance the knowledge of reliability studies conducted on composite power systems by providing a critical and systematic review. This work investigates peer-reviewed articles published between 2007 and 2017 in three reliable databases. The findings reveal that the reliability of composite power systems has received considerable attention over the last few years. Secondly, investigation studies demonstrated a crucial role in verifying the impact of adopting new technologies. Third, studies on this topic have been intensively conducted in Asia, which highlights the promising sectors in these regions. However, researchers have generally focused on developing several aspects (e.g., evaluation speed and wind power integration) at the expense of others (e.g., realistic studies and other renewable energy resources). The lack of practical applications is evident in the surveyed publications. These findings imply a potential incoordination between the needs of the real applications and researchers' tendencies. Future reliability evaluation scholars are advised to consider the findings of this systematic review including concentrating on insufficiently covered topics and enhance the coordination among the efforts devoted in this area.

**Keywords:** reliability analysis; composite power system; systematic literature review

## 1. Introduction

Rapid changes in modern life, especially in population, economy, and technology, have created a high demand for energy. Electricity is intertwined with most aspects of modern life because modern society considers it an indisputable right [1]. Maintaining a continuous power supply is an indicator of prosperity and national development. Therefore, providing customers with secure and reliable power is a priority of decision makers.

Fully reliable power systems do not exist due to many factors, such as random failures of system components, intermittent power sources, and uncertain load profile. System blackout may result from one or more of these factors in a conditional sense [2]. An inverse correlation exists between the investment cost of power systems and system reliability, as shown in Figure 1 [3]. This figure illustrates

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