

2021 IAS Annual Meeting

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Title: All You Need to Know About Reactive Power Studies for Renewable Energy Projects

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Topic(s): Power Systems Engineering

Keywords: Index Terms--- Wind Energy, Solar Energy, Energy Storage, Reactive Power Control, Voltage Control

Abstract: Abstract--- This paper provides a detailed account on reactive power studies for renewable energy projects in the USA. Projects with main power transformers (MPTs) equipped with either on-load tap changers (OLTC) or de-energized tap changers (DETC) are analyzed. Voltage control throughout the collection system is discussed. Optimum capacitor bank sizing is shown. Lastly, project reactive power capability, known as P-Q capability, is derived.

Comments: