



AN OVERVIEW OF THE POLICY AND REGULATION OF THE ELECTRIC POWER SECTOR IN UNITED STATES

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OVERVIEW

Aside from being touted as the most complex machine on the globe, the United States' electricity grid is a core component of the nation's economic backbone. With the current geopolitical shift in the global energy supplies, and an increased concern for climate change, it is of strategic importance, as well as of ecological value to decarbonize the power generation sector.

This work presents a summary of the current organizational and regulatory structure of the sector, from federal jurisdictions to state regulation and the technical standards that govern its day-to-day operation.

The discussion will be developed further into the current regulatory issues that are of concern and finally a brief analysis of the current policy drivers in the form of Inflation Reduction Act and Bi-Partisan Infrastructure Law, that are slated to bring about the transition towards decarbonization will be presented. A keynote conclusion will examine the effectiveness of energy policy w.r.t to current issues presented earlier.

BIO

Ali Khan, MS, currently works as an Associate Engineer at Schweitzer Engineering Laboratories where he works on developing robust communication systems and protocols for a leading product line. He received his MS. in Electrical Engineering from Washington State University and BE. From National University of Sciences and Technology, Islamabad. He is the recipient of the prestigious IEEE Outstanding Graduate Student award of 2022.



During his MS, he worked extensively on analyzing the current policy drivers in the electricity sector of United States, in the light of recent legislative action by the current administration. He also worked with the UI-ASSIST¹ Consortium on developing an aggregator supervised business model for collective ownership and operation of electric vehicles charging infrastructure. He holds the belief that better governance, placed in the hands of competent engineers will solve the 'energy dilemma' for many developing countries.

¹ <https://uiassist.org/>