Special Session: Impact assessment in resilience analysis of energy systems

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The resilience of energy systems plays a pivotal role in maintaining societal and economic stability, particularly in times of disruption. This special session, titled "Impact Assessment in Resilience Analysis of Energy Systems," aims to explore the latest advancements in assessing and enhancing the resilience of energy infrastructure. The focus will be on assessing industrial, economic, and societal impacts, as well as the interactions between energy systems and other critical infrastructures.

We invite contributions that address key aspects of resilience analysis, including but not limited to:

1. Assessment of losses in industrial production, economic systems, and the analysis of cascading effects and interactions with other critical infrastructures.
2. Evaluating the loss of essential services across the different phases of the resilience curve, such as disruption and recovery, including societal impacts and vulnerability assessments.
3. Models and tools for supporting decision-making in preparedness and restoration phases, particularly for prioritizing actions that involve multiple decision criteria.
4. GIS-based mapping approaches for visualizing impacts and developing preparedness and restoration strategies, considering diverse perspectives.

This session will offer a platform for researchers and practitioners to share methods, models, and case studies that provide actionable insights into the resilience of energy systems. By bringing together experts in energy resilience, we aim to foster a multidisciplinary discussion that informs robust decision-making and advances the understanding of energy system vulnerabilities and recovery strategies.

Potential contributors:

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