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Decarbonization energy transition is one of the most important measures to mitigate climate change and improve sustainability. These main investment projects for future net-zero emissions include renewables, energy storage systems (ESSs), electric vehicles (EVs), charging infrastructure, hydrogen production, recycling, etc. High penetration of renewables and large-scale deployment of EV and charging infrastructure can significantly affect the operations of energy systems, even rendering them unstable and unreliable. Therefore, revolutionary energy systems call for the advancement of smart technologies in planning, operation, and optimization. This includes highly resilient energy system architecture enabled by the Internet of Energy (IoE).