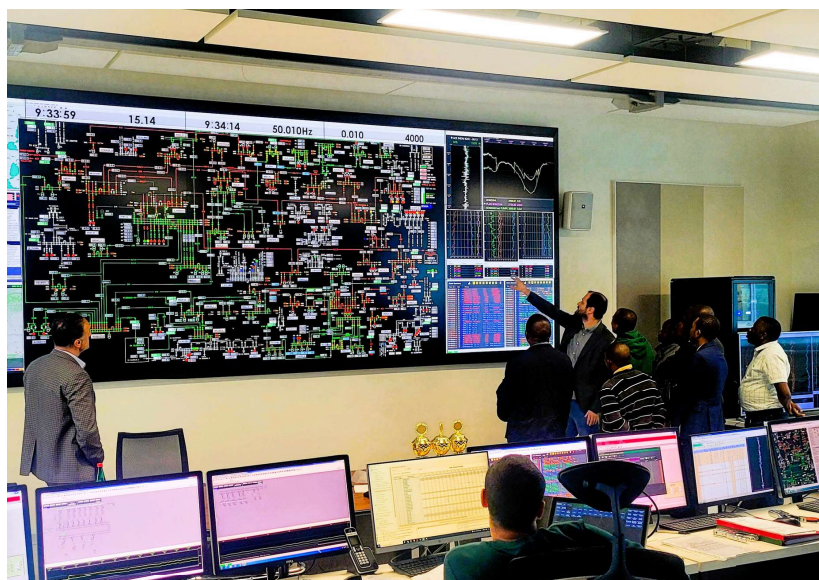


# USEA Strengthens Grid Resilience in Tanzania Through Regional Interconnection Support



In a significant development for grid resilience and regional power integration, the United States Energy Association (USEA) supported Tanzania's successful commissioning of a 400 kV AC transmission interconnection with Kenya in 2024. This landmark project enhances the reliability and stability of the power grid in both countries, lowers energy costs, and facilitates cross-border electricity trade. It also contributes to climate goals by promoting the increased use of clean hydropower.

Recognizing the operational complexities of interconnected grids, USEA collaborated with the Tanzania Electric Supply Company (TANESCO) to prepare Tanzania's

national power system. Through a comprehensive interconnection gap analysis, USEA identified vulnerabilities and areas for improvement in TANESCO's protocols, aligning the utility's operational procedures with international standards for resilient grid management.

USEA provided TANESCO with a comprehensive package of resources, including an Operational Planning Document, Interconnected Systems Guidelines, a Roadmap for Coordination Processes, and a template for an Inter-System Operator (Inter-SO) Agreement. These resources now enable coordinated and reliable system operation between Tanzania and Kenya, reducing the risk of disruptions and improving

USEA strengthened Tanzania's grid resilience by supporting the country's integration into a regional 400 kV interconnection with Kenya. This effort delivered critical technical assistance, operational tools, and hands-on training. These efforts have improved real-time grid management, reduced system vulnerabilities, and reinforced East Africa's ability to operate a stable, reliable, cross-border power network.

the regional grid's overall robustness.

To ensure long-term impact, USEA conducted advanced training for TANESCO's National Grid Control Center dispatchers and Kenya Power & Lighting Company (KPLC) engineers. The training focused on real-time grid monitoring, incident response, and modern operational protocols, equipping system operators with the skills needed to manage dynamic, interconnected networks.

Through targeted support, USEA has significantly strengthened the resilience of Tanzania's power grid. This initiative strengthens national grid operations and contributes to a more stable, efficient, and cooperative regional power system in East Africa.