ELECTRIC POWER ENGINEERS

CASE STUDY

System Impact Studies for AES Southland

The AES Southland System Impact Studies aimed to explore alternatives for repowering the existing 4,200 MW Once Through Cooling (OTC) units across three sites in the Western LA Basin area by 2020. Undertaking a Due Diligence initiative, EPE played a pivotal role in conducting steady state and short circuit (SCD) analyses for various scenarios, providing indicative material for the Testimony presented to the California Public Utilities Commission (CPUC).

CHALLENGE

Repowering the OTC units posed multifaceted challenges, necessitating a profound understanding of steady-state and short circuit analyses. Additionally, navigating the California Independent System Operator (CAISO) interconnection process and staying informed about updates in the Generator Interconnection Agreement (GIA) processes, CAISO protocols, and tariffs presented substantial challenges.

SOLUTION

EPE's solution involved meticulous analyses, including steady-state and short-circuit evaluations, to inform decision-making regarding repowering alternatives. Simultaneously, EPE guided AES Southland through the intricate CAISO interconnection process, ensuring compliance with protocols and tariffs.

The collaboration facilitated the preparation of Testimony for CPUC, presenting essential insights and information derived from the analyses.

RESULTS

The collaborative efforts culminated in the presentation of comprehensive Testimony to the CPUC, providing a foundation for well-informed decisions on the repowering of the 4,200 MW OTC units. The project successfully navigated challenges, leveraging EPE's expertise to guide through the CAISO interconnection process and ensuring compliance with regulatory protocols. The results underscored the project's contribution to shaping the future of the AES Southland Los Angeles Basin System.