scottmadden
MANAGEMENT CONSULTANTS

Resume of:
Alex Tylecote
Manager

Summary

Alex Tylecote joined ScottMadden in July 2022, specializing in transmission operational excellence, nuclear generation modernization, and emerging technology deployment strategies including the integration of artificial intelligence since joining the firm. Other energy sector experience includes storage commercialization, strategic planning for rural cooperatives, assessing renewable energy integration feasibility for a major U.S. refiner during his M.B.A. internship. Prior to business school, he spent 10 years in foreign policy and international development, managing projects supporting U.K. and U.S. foreign policy in the Middle East. He co-founded Treadway International, a consultancy providing management solutions for humanitarian organizations in conflict zones. Alex earned an M.B.A. from the University of North Carolina Kenan-Flagler Business School, graduating Beta Gamma Sigma in 2022. He graduated with first-class honors in Arabic with economics from the School of Oriental and African Studies in London in 2010.

Areas of Specialization

- Transmission and Distribution
- Safety
- Nuclear Generation
- NXTGEN Training
- Natural Gas
- Energy Storage
- Project Management

Recent Assignments

- Led NXTGEN® (video-based) training project for a major Middle Eastern transmission utility's updated permitting system. Coordinated on-site video capture at substations and control centers and developed role-specific modules for switching, safety documentation, and permit-to-work procedures
- Supported transformation of an enterprise-wide safety management system for a major Middle Eastern transmission utility by developing a comprehensive governance framework, assessing safety standards, and creating implementation plans and technical specifications. Authored rollout documentation, including detailed technical impact assessments, and adapted safety standards (e.g., arc flash safety, job safety analysis)
- Developed integrated operational procedures for a major Middle Eastern transmission utility on end-to-end switching and permitting, including general safety, LOTO, and substation entry. Facilitated technical workshops and produced and managed pilot testing in-country with operator feedback
- Supported assessment of a major Middle Eastern transmission operator's maintenance and operations practices, encompassing detailed evaluation of core safety procedures at substations and control centers, including in-country observations and interviews. Performed detailed, in-depth evaluation of electrical safety protocols, substation entry procedures, switching operations, and lockout/tagout compliance. Identified operational challenges and improvement opportunities and performed detailed gap analysis against international industry standards to develop targeted enhancement recommendations
- Led a research project for a national laboratory organization on deploying emerging nuclear technologies (drones/robotics, automation, digital twins). Synthesized utility interviews and research to evaluate regulatory, cybersecurity, and infrastructure barriers to develop strategic research recommendations
- Supported a business case analysis for a nuclear plant digital infrastructure modernization program for a national laboratory organization. Analyzed maintenance records, collaborated with experts to validate automation and reliability cost savings, and demonstrated ROI through financial modeling and planning
- Supported evaluation of a federally sponsored nuclear research program by assessing initiatives in plant modernization, flexible operations, and risk-informed systems. Classified opportunities into near-term (three to five years) and long-term (more than five years) categories and recommended actionable improvements
- Worked with rural electricity cooperatives to develop three- to five-year strategic plans by surveying employees, interviewing board members, and facilitating sessions with boards and senior leadership to align organizational priorities
- Supported a major electric utility in establishing an enterprise-wide workforce optimization center by enhancing labor supply/demand forecasting and creating mechanisms to manage future workforce risks
- Assisted in developing a business strategy to identify, assess, and validate commercialization opportunities for long-duration energy storage technology
- Authored a study for major North American refining corporation on the feasibility of behind-the-meter wind and solar installations at refineries. Analyzed renewable potential, economic impacts, and provided strategic recommendations