

ELECTRIC ENGINEER/TECHNICAL EXPERT

Technical Assistance package for the Sustainable Energy Support Programme in Tajikistan

Terms of Reference for Short Term Expert

Expert position	Electricity Engineer / Technical Expert
Expert Category	Senior Non-Key Expert
Mission start-end date	01.03.2024 – 13.11.2027
Minimum requirements	<p><i>Skills and qualifications:</i></p> <ul style="list-style-type: none"> ▪ A University degree in Electrical Engineering or a related field is essential. A Ph.D. or relevant certifications in power systems or electrical engineering is a plus. ▪ A minimum of 12 years of professional experience in the electricity sector, ▪ Minimum of 3 years of specific professional experience in electricity generation, transmission, and distribution, as well as grid optimization. ▪ Comprehensive knowledge of electricity infrastructure, grid operations, and technical aspects of the electricity sector. ▪ Proven experience in conducting technical assessments, infrastructure modernization, and renewable energy integration within the electricity sector. ▪ Proficiency in using engineering tools and software for grid optimization and technical analysis. ▪ Strong analytical and problem-solving skills, with the ability to develop and implement technical solutions for grid enhancement. ▪ Excellent communication and stakeholder engagement skills, with the ability to convey technical information to non-technical stakeholders. ▪ Fluency in English, both written and spoken. Knowledge of Tajik or Russian languages is advantageous. ▪ Commitment to promoting technical excellence, reliability, and efficiency within Tajikistan's electricity sector, aligning with the objectives of the Technical Assistance Programme.
Duration/working days	Up to 410 working days
Task(s) assigned	<p>Technical Assessment: Conduct comprehensive assessments of the technical aspects of electricity generation, transmission, and distribution systems, identifying areas for improvement and optimization.</p> <p>Infrastructure Modernization: Collaborate with stakeholders to develop plans for the modernization and expansion of electricity infrastructure, ensuring reliability and efficiency.</p> <p>Renewable Energy Integration: Work on integrating renewable energy sources into the electricity grid, considering technical challenges and grid stability.</p> <p>Grid Optimization: Utilize advanced engineering techniques to optimize grid operations, reduce losses, and enhance the overall efficiency of electricity distribution.</p> <p>Maintenance and Reliability: Oversee maintenance programs and initiatives to ensure the reliability and availability of electricity supply.</p> <p>Technical Standards: Ensure compliance with international technical standards and best practices in electricity generation, transmission, and distribution.</p> <p>Capacity Building: Provide training and capacity-building support to utility personnel and technical staff in the electricity sector.</p> <p>Safety and Environmental Compliance: Promote safety measures and environmental compliance within the electricity sector.</p>
Output(s)	Inception, mission and progress reporting, etc. as requested