

Job-title	Energy (EE & RE) Engineer/ Climate change
Reporting to	PMD Director
Proposed Mandate and functions of PMD	<p>The focus of PMD is primarily to support and follow up the water sector reform measures as agreed upon in the task matrix of the Development Policy Loan, funded by KfW/ AFD.</p> <p>Professional support to WAJ through a team of qualified national and international experts is focussing on utility companies and WAJ operational units.</p> <p>Of particular importance is the improvement of energy efficiency in the water sector, a saving potential of 30% needs to be realized. Considerable financial assistance by especially KfW of more than 100 M EUR has been secured, a number of projects have already been completed.</p> <p>Future developments of the sector will have to take into consideration constraints posed by limited water resources, technical aspects of matching supply and demand, timely implementation, economic, social, and health aspects of providing water to all. As WAJ is largest single consumer of electricity in Jordan and electricity tariffs are rising, the efficient use of energy in pumping and other services in the respective water supply and wastewater disposal systems is of utmost importance.</p> <p>Whereas projects related to energy efficiency are typically carried out by the traditional WAJ water and sewerage departments, the recently established RE/EE unit in PMD shall be the overarching competence centre for any RE/EE component in WAJ investment projects, and will have to monitor and follow up on implemented projects in the utility companies.</p> <p>Major intervention areas will be the</p> <ul style="list-style-type: none"> • Identifying potential EE projects in existing water and wastewater systems • Monitoring and follow up of achievements made in EE activities • Supporting the RE/EE unit of PMD in identifying potential projects for RE/ EE. • Supporting the RE/EE unit in receiving approvals from NEPCO and regional distribution companies for RE components • Provision of technical expertise to enable and empower the RE/EE unit actively engage with the various utility companies on establishing a solid energy management system
Key responsibilities of the position:	The EE Engineer will be responsible to coordinate and follow-up the monitoring and reporting on all technical and financial matters

	<p>between donors, consultants, contractors and the clients like WAJ and the respective utility companies.</p> <ul style="list-style-type: none"> - Providing technical expertise on all kind of energy efficiency improvement measures, identify saving potentials arising out of existing, planned and ongoing projects; - Hydraulic assessment of water supply systems for the sizing of pumps and the related water supply networks; - Support WAJ organizational units in the management of projects targeting the reduction & optimization of energy inputs in pumping systems.
Scope of work	<ol style="list-style-type: none"> 1. Support the project management and controlling of projects in which energy saving potentials can be realized quickly, like network re-structuring, treatment plants, pumping stations and wells. 2. Check all planning & design reports of consultants for compliance with approved design standards, with a special emphasis on energy efficient lay-outs. 3. Ensure compliance with monitoring & reporting requirements agreed with donors, consultants, contractors and WAJ. 4. Technical assistance to the concerned contractual parties in development of adequate EE monitoring and reporting arrangements, enabling decision makers to decide on problem oriented and timely solutions at an early stage incl. but not limited to provision of recommendations and proposals for developing and piloting renewable energy projects in the water sector, as well as for enhancing the institutional and regulatory framework for energy management in the water sector. 5. Coordinate and cooperate with all water companies, WAJ administrations in governorates and monitor the results of energy efficiency projects in WAJ. 6. Coordinate with MEMR, NEPCO and distribution companies on receiving approvals for RE components 7. Report at regular intervals on the state of affairs and progress made towards realization of objectives incl. but not limited to the following: <ul style="list-style-type: none"> - Current status and trends of energy consumption and efficiency in Jordan's water sector, including baseline assessment, gap analysis, and benchmarking with other countries or regions. - Progress of implementing energy efficiency improvement measures in selected water facilities, such as network re-structuring, treatment plants, pumping stations and wells, including technical design, cost-benefit analysis, risk assessment, and monitoring and evaluation framework.
Educational Background	<p>University Degree in Mechanical/ Electrical Engineering, with minor on hydraulics and/or SCADA systems. MBA will be an advantage</p>
Knowledge/skills/experience Required	<ul style="list-style-type: none"> ● 7 years of professional experience in planning, design and/or operation of pumping systems in water supply and wastewater disposal

	<ul style="list-style-type: none"> • Experience in energy audits of existing water/ wastewater systems • Excellent knowledge on ICT technologies and computer applications, including SCADA systems • Experience in management of donor funded projects is an advantage • Experience in management of renewable energy projects is an advantage. • Good understanding of Management Information Systems
Skills	<ul style="list-style-type: none"> • Fluency in Arabic and English (spoken and written). • Fully proficient computer skills and ability to use relevant software applications • Excellent interpersonal and communication skills
Behavioural Competencies	<ul style="list-style-type: none"> • Team-worker with the ability to establish and maintain effective working relations with people of different national and cultural backgrounds