**Environmental Sustainability Projects at the Water, Energy and Environment Center**

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| **Project Name** | **Status**  ongoing/closed | **7** Renewable Energy | **11** Sustainable Cities & Communities | **12**  Responsible Consumption | **13** Climate Action | **14** Life Below Water | **15** Life on Land |
| 1. A conceptual model to analyze the effects of urbanization and agricultural activities on groundwater levels and quality in Amman Zarqa basin. | closed |  |  |  |  |  |  |
| 1. Anaerobic pre-treatment to increase the energy efficiency and performance of wastewater treatment plants | Ongoing |  |  |  |  |  |  |
| **3-** An Integrated Approach for Water Resources Sustainability of Yarmouk River Basin Considering Socioeconomic Aspects Using Supply-Demand Water Simulation Model. | Ongoing |  |  |  |  |  |  |
| **4 -** Assessment and funding of the IGCP Project 730-Hydrogeological Significance of Mediterranean Geoparks | Ongoing |  |  |  |  |  |  |
| **5 -** Assessing Climate Vulnerability in Karak and Madaba | Ongoing |  |  |  |  |  |  |
| **6 -** Assessment of Preferential Subsurface Flow and Transport in Soils near Zarqa River Basin. | Closed |  |  |  |  |  |  |
| **7 -** CrITERIA- Cr(VI) Impacted water bodies in the Mediterranean: Transposing management options for Efficient water Resources use through an Interdisciplinary Approach. | Closed |  |  |  |  |  |  |
| **8 -** Developing a bio-zeolite filter for treatment of surfactants in grey water. | Closed |  |  |  |  |  |  |
| 9- Evaluation of Water Quality of Kufranja Dam in Jordan Using Physiochemical Parameters and Water Quality Indices | closed |  |  |  |  |  |  |
| **10 -** Expanding access to sanitation for unsewered communities in Middle East and North Africa Countries. | Closed |  |  |  |  |  |  |
| **11 -** Functions of Water Lentils as a Natural Water Bioremediation, and its Suitability for Layer Performance and Egg Production. | Closed |  |  |  |  |  |  |
| 12- Innovative methodology to prevent and mitigate diffuse pollution from urban water runoff | Ongoing |  |  |  |  |  |  |
| **13 -** Natural Based Nano-Composite for treatment of surfactants polluted water. | Closed |  |  |  |  |  |  |
| 14 - Promoting Water Use Efficiency in Green Schools | closed |  |  |  |  |  |  |
| 15- Prototyping of pyrolysis technology for sewage sludge utilization | closed |  |  |  |  |  |  |
| 16 - Selenium in the Dead Sea GW basin | Closed |  |  |  |  |  |  |
| 17 - Studying the effects of using the eﬄuent of King Talal dam water in irrigation on soils and groundwater in evaluating groundwater vulnerability maps for the area | closed |  |  |  |  |  |  |
| **18 -** Sustainability of Olive Oil Industry in Jordan: Moving Olive Mills toward Circular Economy. | Ongoing |  |  |  |  |  |  |
| 19-Sustaining small-scale water systems (3SWater)-integrating local knowledge and co-learning for preserving aquatic ecosystems and improving quality of life  **(one MSc student)** | Ongoing |  |  |  |  |  |  |
| 20- sustainable groundwater resources management by integrating earth observation-derived monitoring and flow modelling Results | closed |  |  |  |  |  |  |
| **21-** The economic environmental and social sustainability of wastewater treatment plants in Jordan. | Closed |  |  |  |  |  |  |
| **22-** The role of Fungi in Treatment of water polluted by surfactants. | Closed |  |  |  |  |  |  |
| **23-** The potential of zeolite in treating grey water. | Closed |  |  |  |  |  |  |
| 24-Utilizing solar energy for water pumping and brackish water desalination in agriculture | closed |  |  |  |  |  |  |
| 25-Water and Wastewater Utilities for Climate Mitigation (WaCCliM) Project | closed |  |  |  |  |  |  |
| 26- Water Management Study for Queen Alia International Airport | closed |  |  |  |  |  |  |
| **27 -** Water Use Efficiency for Improving Water Productivity in the Jordan Valley/Jordan. | Closed |  |  |  |  |  |  |
| **28 -** Water Footprint Analysis as Tool for Water Better Management in Jordan. | Closed |  |  |  |  |  |  |
| **29-** Water Lentils in Jordan’s Irrigation Ponds. | Closed |  |  |  |  |  |  |