Introduction: Al-Mustaqbal University has adopted a comprehensive water conservation policy. This policy not only addresses the local water crisis but also contributes to the global effort in achieving the United Nations Sustainable Development Goals (SDGs), particularly SDG 6: Clean Water and Sanitation and SDG 13: Climate Action. It also aligns with the criteria of Global Rankings of universities, which measure sustainability efforts at universities worldwide.

Part One: Water Neutrality by 2030

Objective: Achieve water neutrality across the university campus by 2030, minimizing water footprint.

- All existing and new campus buildings will be fitted with water-efficient fixtures (e.g., low-flow faucets, water-saving toilets, and showers).
- Ensure 100% treatment and recycling of greywater and at least 50% of sewage by 2030 using state-of-the-art water recycling technologies.
- Promote rainwater harvesting systems to offset water demand and support campus irrigation, contributing to the water neutrality goal.

Part Two: Water Metering and Governance

Objective: Strengthen water usage management through metering and governance.

- Increase the installation of smart water meters across all campus buildings to track and reduce excessive water usage.
- Implement a data-driven Water Use Monitoring Program to identify high-usage areas and address inefficiencies.
- Develop a Water Governance Framework that promotes awareness among staff, students, and faculty on responsible water consumption.
- Ensure continuous monitoring and preventive maintenance of water systems to prevent leaks and wastage.

Part Three: Sustainable Water Storage

Objective: Secure long-term water reserves through sustainable storage solutions.

- Establish storage systems such as eco-friendly ponds, wells, and underground tanks to collect and store excess conserved water for future use.
- Introduce measures to minimize evaporation from water storage facilities, including the use of evaporation suppressants and green infrastructure.
- By 2030, ensure all water storage systems are optimized for sustainable irrigation and emergency water supply.

Part Four: Research, Innovation, and Community Engagement

Objective: Foster innovation in water conservation through research and education.

- Encourage interdisciplinary research on innovative water conservation techniques, such as greywater reuse, desalination, and climate-resilient water systems.
- Partner with local and international institutions to share best practices and contribute to global water sustainability research.
- Integrate water conservation topics into the university curriculum, ensuring students and staff are equipped with the knowledge to practice and promote sustainable water use.
- Provide incentives for students and staff who demonstrate leadership in water conservation efforts.
- Extend water conservation training to local communities and authorities, promoting Al-Mustaqbal University as a regional leader in water resource management.

Part Five: Prevention of Water Pollution

Objective: Prevent water contamination and safeguard water quality.

- Implement strict protocols to ensure all washing and cleaning activities use non-toxic and biodegradable materials.

- ❖ Prohibit the disposal of hazardous materials (chemicals, solvents, etc.) into campus drainage and sewer systems.
- ❖ Conduct annual water quality audits to ensure that campus water systems remain free of pollutants, including pesticides and fertilizers.
- ❖ Develop and promote green landscaping practices to reduce the risk of pesticide and fertilizer runoff into water systems.
- ❖ Continuously explore innovative pollution prevention methods, including bioremediation and constructed wetlands.
- ❖ Regularly test and monitor water quality to ensure compliance with national and international standards for clean water.

Partr Six: Water Reuse

Objective: Maximize the reuse of water to reduce overall water demand and promote sustainability.

- ❖ Expand the **reuse of treated greywater** for irrigation, landscaping, and other non-potable purposes across the campus.
- ❖ Integrate **closed-loop water systems** in laboratories and facilities that allow for repeated use of water.
- ❖ Promote the **reuse of rainwater** collected via harvesting systems for appropriate campus uses.
- ❖ Research and implement best practices for the **recycling of wastewater** in a manner that is both energy-efficient and environmentally friendly.

Note: All the provisions of the above policy must be implemented by the university staff and students, and it will be updated to align with the requirements of national policies and community needs.

Prof. Dr. Hasan Sh. Majdi

The President of Al-Mustaqbal University