

Policy subject: Water Treatment and Reuse Policy	Policy number: 27/P.D/2024	Date of last revision: 2024/11/15
Implementing body: Administrative Affairs Department	Implementing start date: 2024/11/20	Policy reference: Planning and Development Department

1. Overview:
Palestine Ahliya University is committed to sustainable water management, focusing on the treatment and reuse of water to minimize environmental impact and conserve resources. The Water Treatment and Reuse Policy promotes the safe reuse of wastewater, reducing fresh water consumption and waste. This policy aligns with the University's broader sustainability goals, aiming to enhance resource efficiency and contribute to water conservation efforts.

2. Objectives:

- **Promote Water Reuse:** Maximize reuse of treated water for non-potable uses like irrigation and cooling.
- **Reduce Freshwater Consumption:** Decrease reliance on fresh water by incorporating treated wastewater.
- **Ensure Water Quality:** Implement treatment protocols to meet health and environmental standards.
- **Enhance Sustainability:** Contribute to the University's sustainability goals by reducing water usage and environmental impacts.
- **Support Innovation:** Foster innovative water treatment technologies to improve the reuse of water.
- **Comply with Regulations:** Adhere to local, national, and international wastewater treatment standards.

3. Scope:
This policy applies to all campus buildings, wastewater treatment systems, and water reuse infrastructure, including greywater, blackwater, and non-potable water systems. It covers all University departments and individuals involved in water treatment and reuse.

4. Statements:

- **Commitment to Conservation and Reuse:** The University aims to reduce environmental impacts through innovative water reuse strategies.
- **Integration of Reuse Systems:** Water treatment and reuse will be integrated into campus operations to reduce freshwater reliance.
- **Water Treatment Standards:** All systems will comply with water quality standards to ensure safety and minimize contamination risks.
- **Continuous Improvement and Innovation:** The University will continually monitor, improve, and adopt new technologies for water treatment and reuse.

- **Environmental Responsibility and Compliance:** The University will ensure compliance with all relevant environmental regulations.

5. Procedures:

1. Wastewater Collection and Treatment:

- **Collection Systems:** Establish systems to collect greywater and blackwater for reuse.
- **Treatment Technologies:** Use technologies such as filtration, biological treatment, chlorination, UV treatment, and reverse osmosis to treat wastewater for reuse.

2. Reuse Applications:

- **Non-Potable Uses:** Reuse treated water for irrigation, cooling systems, and cleaning.
- **Infrastructure Integration:** Incorporate water reuse systems into new and existing campus infrastructure.

3. Monitoring and Quality Control:

- **Water Quality Monitoring:** Regularly test treated water to ensure it meets safety standards.
- **Maintenance and Inspection:** Perform routine checks on systems for proper functioning.
- **Reporting:** Keep detailed records of water quality, maintenance, and water usage.

4. Staff and Student Awareness:

- **Training and Education:** Educate staff and students on water reuse benefits and proper handling.
- **Public Engagement:** Actively involve the campus community in water conservation efforts.

5. Compliance and Legal Requirements:

- **Regulatory Compliance:** Ensure all water treatment and reuse practices comply with regulations.
- **Environmental Reporting:** Provide transparent reports on water reuse efforts and environmental impact.

6. Feedback and Continuous Improvement:

- **Feedback Mechanisms:** Establish a system for feedback and suggestions on water reuse systems.
- **Research and Innovation:** Encourage research and collaboration on sustainable water management.

Key Performance Indicators (KPIs):

1.	Percentage of Treated Waste Water
2.	Number of Water Pollution Incidents
3.	Percentage of Water Reused