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ORGANIZATIONAL AND MANAGEMENT MECHANISMS FOR EFFICIENT WATER RESOURCE USE BASED ON CIRCULAR ECONOMY PRINCIPLES

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Abstract. Increasing water scarcity and environmental challenges necessitate the transition from traditional linear resource management to approaches based on the principles of the circular economy. This study examines organizational and managerial mechanisms for the efficient use of water resources within the framework of the circular economy. The research focuses on integrating the principles of reduce, reuse, recycle, and recover into water resource management systems to enhance resource efficiency and ensure long-term sustainability.

The study applies systematic and analytical approaches to evaluate existing water management practices and identify opportunities for sustainable transformation. A conceptual organizational and managerial framework for the sustainable use of water resources is proposed, emphasizing effective governance, technological modernization, and rational resource allocation. The proposed framework can support the development of sustainable water management policies in regions facing increasing water stress.

Keywords: circular economy; water resource management; resource efficiency; sustainable development; water governance; organizational and managerial mechanisms; efficient water use.

Annotatsiya. Suv resurslarining tobora tanqislanib borishi hamda ekologik muammolarning kuchayishi resurslarni boshqarishning an'anaviy chiziqli modelidan aylanma iqtisodiyot tamoyillariga asoslangan yondashuvlarga o'tishni taqozo etmoqda. Mazkur tadqiqotda aylanma iqtisodiyot tamoyillari asosida suv resurslaridan samarali foydalanishni ta'minlovchi tashkiliy-boshqaruv mexanizmlari tahlil qilingan. Tadqiqot suv resurslarini boshqarish tizimlariga kamaytirish (reduce), qayta foydalanish (reuse), qayta ishlash (recycle) va tiklash (recover) tamoyillarini integratsiya qilish orqali resurslardan foydalanish samaradorligini hamda ekologik barqarorlikni oshirish masalalariga qaratilgan.

Tadqiqotda mavjud suv resurslarini boshqarish amaliyotlarini baholash va ularni barqaror rivojlantirish imkoniyatlarini aniqlash uchun tizimli hamda tahliliy yondashuvlardan foydalanilgan. Suv resurslaridan barqaror foydalanishga qaratilgan konseptual tashkiliy-boshqaruv modeli taklif etilib, unda samarali boshqaruv, texnologik modernizatsiya va resurslarni oqilona taqsimlashning ustuvor yo'nalishlari asoslab berilgan. Taklif etilgan yondashuv suv tanqisligi ortib borayotgan hududlarda barqaror suv resurslarini boshqarish siyosatini takomillashtirishga xizmat qilishi mumkin.

Kalit so'zlar: aylanma iqtisodiyot; suv resurslarini boshqarish; resurslar samaradorligi; barqaror rivojlanish; suv boshqaruvi; tashkiliy-boshqaruv mexanizmlari; suv resurslaridan samarali foydalanish.

Аннотация. Усиливающийся дефицит водных ресурсов и возрастающие экологические вызовы обуславливают необходимость перехода от традиционной линейной модели управления ресурсами к подходам, основанным на принципах циркулярной экономики. В настоящем исследовании рассматриваются организационно-управленческие механизмы эффективного использования водных ресурсов на основе принципов циркулярной экономики. Особое внимание уделено интеграции принципов reduce, reuse, recycle и recover в системы управления водными ресурсами с целью повышения эффективности использования ресурсов и обеспечения экологической устойчивости.

В исследовании применены системный и аналитический подходы для оценки существующей практики управления водными ресурсами и выявления возможностей её устойчивой трансформации. Предложена концептуальная организационно-управленческая модель устойчивого использования водных ресурсов, основанная на эффективном управлении, технологической модернизации и рациональном распределении ресурсов. Предлагаемый подход может способствовать совершенствованию политики устойчивого управления водными ресурсами в регионах, испытывающих возрастающий дефицит воды.

Ключевые слова: циркулярная экономика; управление водными ресурсами; эффективность использования ресурсов; устойчивое развитие; водное управление; организационно-управленческие механизмы; эффективное использование водных ресурсов.



INTRODUCTION

Increasing water scarcity, climate change, rapid population growth, and inefficient consumption patterns have emerged as major global challenges affecting sustainable socio-economic development [1]. In many regions of the world, traditional linear models of water resource use, which are based on excessive extraction and disposal, no longer ensure environmental sustainability or the efficient allocation of resources [2]. Under these conditions, the transition toward the principles of the circular economy is widely recognized as one of the most effective approaches to improving resource efficiency and strengthening sustainable water resource management systems [3].

The concept of the circular economy promotes the rational use of natural resources through the implementation of the reduce, reuse, recycle, and recover strategies [4]. Unlike conventional linear models, circular approaches aim to minimize resource losses, expand opportunities for water reuse, and reduce environmental pressure on ecosystems [5]. In the context of water resource management, these principles contribute to enhancing ecological sustainability, optimizing water consumption, and improving institutional and technological efficiency [6].

At the same time, many developing regions continue to face significant water management challenges associated with outdated infrastructure, insufficient institutional coordination, and increasing anthropogenic pressure on water systems [7]. These challenges highlight the growing need for effective organizational and managerial mechanisms capable of integrating the principles of the circular economy into water governance practices, thereby supporting sustainable and resilient water resource management [8].

LITERATURE REVIEW

The concept of the circular economy has been widely recognized as an effective approach to improving resource efficiency and achieving sustainable development. Martin Geissdoerfer et al. (2017) [9] define the circular economy as a new sustainability paradigm that integrates economic development with efficient resource utilization through closed-loop systems and reduced resource losses. Similarly, Patrizia Ghisellini et al. (2016) [10] emphasize that the principles of the circular economy enhance environmental performance while simultaneously improving economic efficiency and resource productivity. In our view, these studies provide a strong theoretical foundation for the development of circular economy concepts; however, they primarily focus on production systems and devote comparatively limited attention to organizational and managerial mechanisms for water resource governance.

The application of circular economy principles to water resource management has also received considerable scholarly attention. Anne P. M. Velenturf [11] and Phil Purnell (2021) [12] argue that sustainable water governance requires the integration of technological innovation, institutional coordination, and efficient resource management. Their research highlights wastewater reuse, digital monitoring, and resource recovery as key components of sustainable water management systems. We consider that these studies effectively demonstrate the environmental and economic benefits of circular water management; however, they provide only limited guidance for the development of integrated organizational and managerial mechanisms.

In Uzbekistan, water resource management has become one of the strategic priorities for ensuring sustainable economic development under conditions of increasing water scarcity. Shokhojaeva and Murodova (2020) [13] argue that improving the efficiency of water resource use in irrigated agriculture requires the modernization of irrigation systems, the rational allocation of water resources, and the introduction of water-saving technologies. Their study emphasizes that efficient water resource management plays a vital role in increasing agricultural productivity and ensuring the sustainable use of water resources.

Furthermore, Matkarimov (2026) [14] highlights that existing institutional constraints, including insufficient coordination among management bodies, inadequate monitoring mechanisms, and inefficient resource allocation, reduce the effectiveness of land and water resource management in Uzbekistan. The author emphasizes the importance of strengthening institutional governance and improving management mechanisms to achieve sustainable water resource use.

The author agrees that institutional reforms and technological modernization are fundamental to improving water resource management. However, the reviewed studies primarily address individual aspects of water governance and do not propose an integrated organizational and managerial mechanism based on the principles of the circular economy. Therefore, this study develops a comprehensive conceptual framework that integrates organizational governance, technological modernization, resource efficiency, and the principles of reduce, reuse, recycle, and recover into a unified and sustainable water resource management mechanism.

RESEARCH METHODOLOGY

This study adopts a qualitative research methodology to examine organizational and managerial mechanisms for the efficient use of water resources within the framework of the circular economy. The research is based on a systematic review and comparative analysis of scientific literature, international reports, and policy documents related to water resource management, the circular economy, and sustainable development. Secondary data obtained from international organizations, including the Food and Agriculture Organization (FAO), the World Bank, the Organisation for Economic Co-operation and Development (OECD), and UNESCO, were used to identify current challenges and best practices in water resource management.

A systems analysis approach was employed to examine the relationships among organizational structures, management mechanisms, and the principles of the circular economy in water resource governance. Comparative analysis was conducted to evaluate existing water management approaches and identify effective organizational practices that promote resource efficiency, water reuse, and the sustainable utilization of water resources. In addition, logical synthesis and conceptual modeling were applied to develop an integrated organizational and managerial framework for efficient water resource management.

The proposed framework is based on the integration of the four core principles of the circular economy—reduce, reuse, recycle, and recover—with organizational governance, technological modernization, and the rational allocation of resources. This methodological approach facilitates the identification of priority management mechanisms that can enhance water-use efficiency and strengthen the implementation of sustainable water management policies within the context of the circular economy.

Experimental Methods. This study adopts a systematic and interdisciplinary approach to the analysis of water resource management based on the principles of the circular economy. The methodological framework is grounded in the concepts of sustainable development and the circular economy, particularly the reduce–reuse–recycle–recover model, which serves as the conceptual foundation for efficient water resource management [1; 3]. Comparative analysis was employed to identify the limitations of conventional water management systems and evaluate the advantages of circular economy mechanisms in promoting the sustainable use of water resources [5]. Furthermore, a systems approach was used to assess the interrelationships among environmental, organizational, technological, and economic factors influencing water governance processes [6].

Particular attention is devoted to the development of a conceptual organizational and managerial mechanism for the efficient use of water resources. The proposed mechanism integrates institutional regulation, technological modernization, water reuse practices, monitoring systems, and sustainable governance principles into a unified management framework. The overall methodological structure of the study is presented in Figure 1.

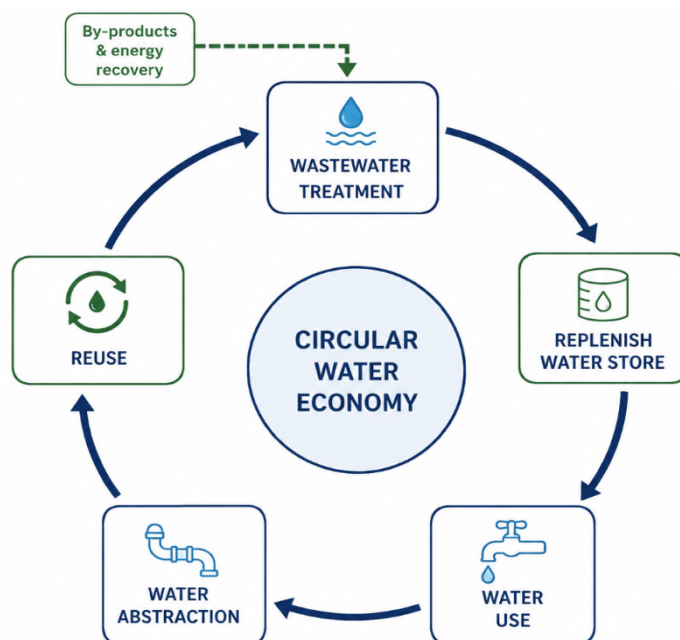


Figure 1. Conceptual organizational-management mechanism for efficient water resource use based on circular economy principles.



Figure 1 illustrates the conceptual organizational and managerial mechanism for the efficient use of water resources based on the principles of the circular economy. The model demonstrates the interrelationships among institutional regulation, technological modernization, resource-saving approaches, water reuse systems, monitoring processes, and environmental sustainability indicators. Particular attention is devoted to the integration of the reduce–reuse–recycle–recover principles into water resource management practices in order to minimize resource losses and enhance management efficiency.

The conceptual framework demonstrates that effective water governance requires not only technological modernization but also well-coordinated institutional mechanisms and sustainable management strategies. The interaction among environmental, economic, and organizational components establishes a solid foundation for improving resource efficiency and strengthening the long-term sustainability of water resources under conditions of increasing water scarcity and environmental pressure.

Based on the conceptual framework presented in Figure 1, the principal structural components of the proposed circular economy-based water resource management mechanism and their functional characteristics are systematically presented in Table 1.

Table 1
Main components of the circular economy-based water management mechanism¹

Components	Main functions	Expected outcomes
Institutional management	Coordination of water governance policies and regulations	Improved management efficiency
Technological modernization	Introduction of water-saving and recycling technologies	Reduction of water losses
Water reuse systems	Reuse of treated wastewater in economic sectors	Increased resource efficiency
Monitoring and control	Digital monitoring and assessment of water use	Better decision-making
Environmental sustainability	Reduction of ecological pressure on water ecosystems	Sustainable water use

The proposed methodology provides a conceptual basis for improving sustainable water governance and may be applied in regions experiencing increasing water stress and resource limitations, including the Fergana region. The methodological approach also allows the integration of environmental sustainability indicators into organizational and management decision-making processes.

ANALYSIS AND RESULTS

The results of the study indicate that the application of circular economy principles to water resource management substantially improves resource efficiency and strengthens sustainable governance mechanisms. The analysis demonstrates that traditional linear water management systems are characterized by significant water losses, inefficient resource allocation, limited water reuse practices, and inadequate institutional coordination [2]. Under conditions of increasing water scarcity and environmental pressure, such approaches are no longer capable of ensuring long-term sustainability.

The implementation of circular economy principles facilitates the transition from conventional consumption-oriented models to integrated water resource management systems based on resource recovery and reuse. In particular, the application of the reduce–reuse–recycle–recover framework contributes to minimizing water losses, enhancing wastewater utilization, and improving the efficiency of water distribution processes. The findings indicate that circular approaches promote ecological sustainability while simultaneously enhancing economic and managerial performance.

The proposed organizational and managerial mechanism emphasizes the importance of effective institutional coordination among government agencies, water management organizations, industrial sectors, and local stakeholders. Sustainable governance requires the integration of technological modernization, digital monitoring systems, and environmentally oriented management strategies into a unified and coordinated framework. The results further demonstrate that the adoption of water-saving technologies and wastewater recycling systems can substantially reduce pressure on freshwater resources.

¹ Created by author.



In addition, the study highlights the growing role of digital technologies in promoting sustainable water governance. Smart monitoring systems, data-driven decision-making mechanisms, and automated control processes enhance the transparency, responsiveness, and operational efficiency of water management. These technologies facilitate the timely detection of water losses and contribute to a more rational and efficient allocation of water resources.

Particular attention is devoted to regions experiencing high levels of water stress, including the Fergana region, where increasing agricultural demand, rapid population growth, and climate-related challenges intensify pressure on water resources. Under these conditions, the implementation of circular economy mechanisms can enhance water security, strengthen environmental sustainability, and support long-term socio-economic development.

The proposed conceptual framework provides a methodological foundation for the development of sustainable water management policies and institutional reforms aimed at improving resource efficiency and reinforcing resilient water governance under contemporary environmental and economic challenges.

CONCLUSIONS AND RECOMMENDATIONS

This study examined organizational and managerial mechanisms for the efficient use of water resources based on the principles of the circular economy. The findings demonstrate that traditional linear approaches to water resource management are no longer sufficient under conditions of increasing water scarcity, environmental degradation, and growing demand for water resources [1]. In this context, the transition toward circular economy models represents a key prerequisite for strengthening sustainable water governance and improving resource efficiency [9].

The results indicate that integrating the reduce, reuse, recycle, and recover principles into water resource management systems contributes to reducing water losses, enhancing wastewater reuse, strengthening institutional coordination, and promoting ecological sustainability [11]. Furthermore, the study confirms the importance of integrating technological modernization, digital monitoring systems, and effective governance mechanisms into a unified and coordinated management framework [7].

A conceptual organizational and managerial mechanism for the sustainable use of water resources is proposed as a methodological foundation for improving water governance processes. This framework can support the formulation and implementation of sustainable water management policies in regions experiencing increasing environmental and economic pressures, particularly those affected by water scarcity and resource constraints [8].

The practical implementation of circular economy mechanisms in water resource management has the potential to promote long-term environmental sustainability, ensure the rational allocation of water resources, and support sustainable socio-economic development. Future research should focus on developing quantitative assessment indicators and evaluating the practical effectiveness of circular water management models at regional and sectoral levels.

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