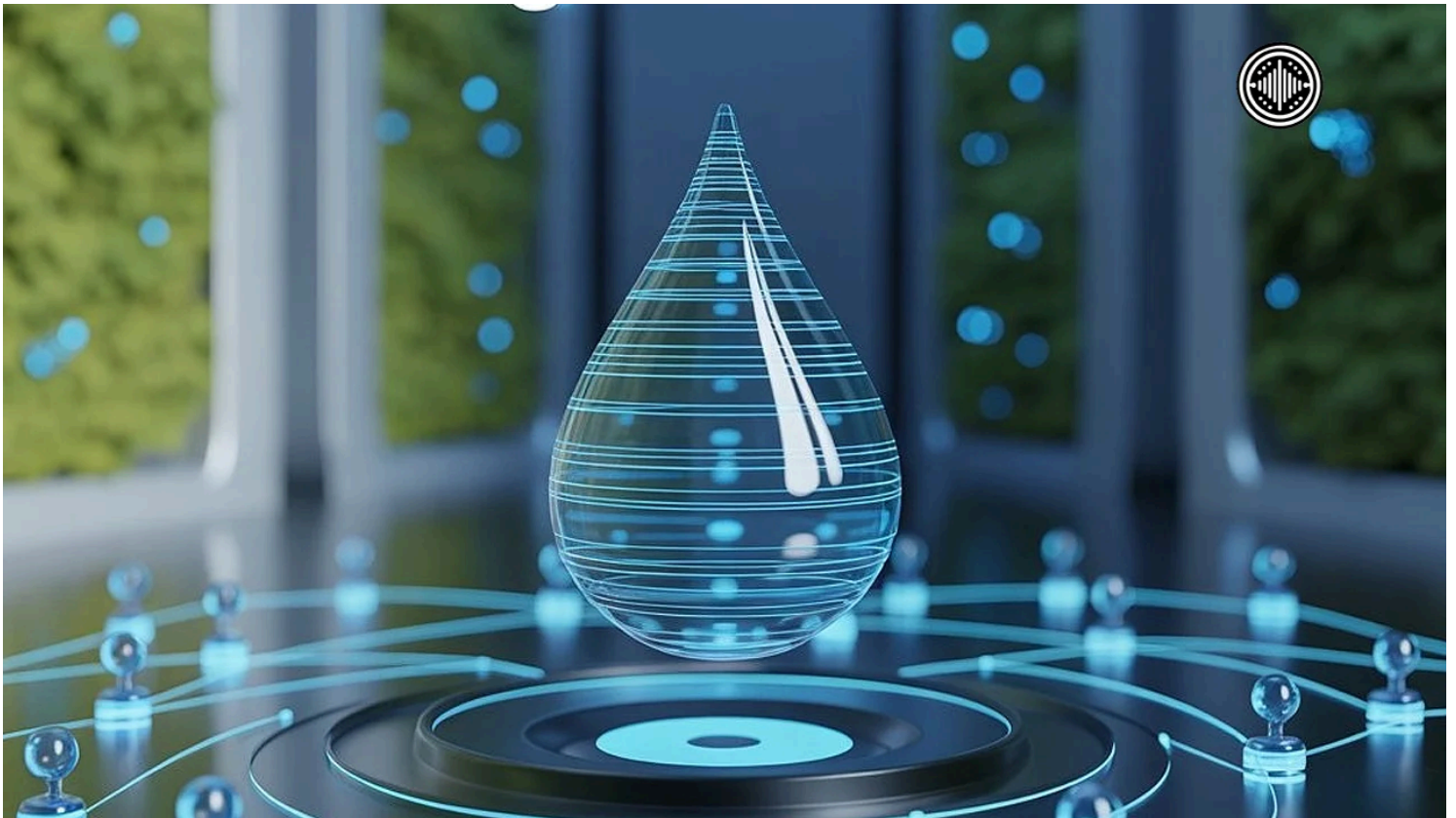# OpenVoiceNews Pakistan

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Blockchain Technology Revolutionizes Global Water Crisis Solutions

August 9, 2025

— *Categories: Crypto*

The world faces an escalating water crisis, with demand projected to surpass sustainable supply by 40 percent by 2030, according to a United Nations (UN) report. The World Economic Forum (WEF) also warns that terrestrial water storage declined by nearly 1.3 trillion tonnes between 2005 and 2015, intensifying the urgency to find innovative ways to manage and conserve water resources.

In response to this growing challenge, blockchain technology and cryptocurrency are emerging as promising tools to combat water scarcity. Pietro Gorgazzini, Managing Director

at Hypercube, explained to Cryptonews how his company is leveraging blockchain to transform alternative water sourcing. Although over 70 percent of Earth's surface is covered by water, only about 2.5 percent is freshwater, and an even smaller fraction is renewable and accessible for human use.

Hypercube has created a global water credit system designed to track and verify water reclaimed from unconventional sources like wastewater, seawater, and atmospheric moisture. Facilities that participate in the program undergo strict audits by independent third parties to ensure compliance with the water credit protocol. Flowmeters connected via APIs feed data into the Algorand blockchain, a decentralized, immutable public ledger. Each cubic meter of water reclaimed generates a "WTR token," representing a verified water credit.

Water-intensive companies can buy and retire WTR tokens to offset their water consumption and bolster their Environmental, Social, and Governance (ESG) performance reports. Funds raised through token sales support infrastructure costs, audits, and new water projects in regions most in need. Since its launch in April 2024, Hypercube has tokenized over 50 million cubic meters of reclaimed water, aiming to reach 100 million by year-end.

WaterLab, another innovative project, utilizes tokenization to finance water desalination systems. CEO Aaron Mandell told Cryptonews that while water is abundant, most requires treatment, often through desalination, before it is usable. WaterLab sells tokenized water credits, each representing one cubic meter of desalinated water, to both investors and consumers who want physical water delivery or to hedge water supply risks financially.

WaterLab currently operates desalination plants in the United States, Nicaragua, and the Bahamas, areas with pressing water needs or limited infrastructure, and supports ongoing research to improve desalination technology.

Additionally, the crypto community is rallying to raise funds for clean water access worldwide. The "TeamWater" campaign, supported by crypto donation platform The Giving Block, aims to raise $40 million in August to fund sustainable, community-driven water solutions. As of early August, the campaign has already secured over $2.7 million in crypto donations.

Despite this progress, skepticism toward Web3 (Web 3.0) models remains a barrier. Gorgazzini stresses the importance of educating traditional industries and policymakers to gain broader acceptance. Mandell agrees, highlighting the need to simplify blockchain's role so consumers can benefit without a complex understanding.

Blockchain and tokenization offer scalable, transparent, and innovative approaches to addressing the water crisis, signaling a hopeful future for sustainable water management worldwide.