Tex2.0 Whitepaper

Water Infrastructure Equity Token

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Blockchain: Solana (SPL Token-2022)

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1. Executive Summary

The global water crisis, exacerbated by explosive growth in data centers, power generation, and agricultural demands, requires a paradigm shift in how water infrastructure is financed, built, and operated. Tex2.0 represents a revolutionary approach: a public-private water utility powered by blockchain-based digital assets.

The Tex2.0 ecosystem comprises three interconnected financial instruments:

- **Equity Tokens** issued via SJU STAC on the Solana blockchain, providing fractional ownership of the operating company with $^{24}/_{7}$ secondary market liquidity.
- **H2O Green Water Bonds** tokenized through the Fireblocks and Bitbond partnership, offering institutional-grade green debt financing from $100 increments.
- **Tex2.0 Utility Coin** powering the ecosystem as the primary medium of exchange for water and energy transactions across global operations.

Starting with immediate deployment in Texas — leveraging the $20 billion Texas Water Fund — the business is designed for rapid expansion across the United States, the Caribbean, Africa, and the Middle East and North Africa (MENA) region.

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2. Market Analysis

2.1 The Texas Water Crisis

Texas holds over 2.7 to 3.2 billion acre-feet of underutilized brackish groundwater. Simultaneously, the state is experiencing an unprecedented boom in artificial intelligence data centers. Data centers consumed approximately 25 billion gallons of water in

2025, with projections surging to between 29 and 161 billion gallons by 2030, mostly for evaporative cooling and indirect power-plant use.

Power plants can achieve up to 100% freshwater reduction by switching to brackish sources. The convergence of water scarcity and data center growth creates a massive addressable market.

2.2 Global Desalination Market

The global desalination market is projected to reach $97 billion over the next five years. Regions such as the Caribbean, Africa, and MENA are facing acute water stress and are actively s
500 billion.

2.3 Tokenized Securities Market

The tokenized securities market is projected to reach $16 trillion by 2030 (Boston Consulting Group). Green bonds have seen record issuance, with the water sector representing one of the fastest-growing segments. The combination of ESG mandates and blockchain transparency creates unprecedented demand for tokenized water infrastructure assets.

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3. Technology & Infrastructure

3.1 Brackish Water Desalination

Our core technology retrofits existing power plants and new AI data centers with on-site brackish desalination and closed-loop cooling systems. Waste heat from data centers and power plants drives low-grade thermal desalination of brackish groundwater or blended produced water from the Permian Basin.

Technology: Membrane distillation or forward osmosis powered by plant waste heat reduces the energy penalty to less than 8-10% cost increase. The process produces desalinated water for cooling while concentrating brine for mineral extraction or safe injection.

3.2 SaltBlast Solar Thermal Concentrator (SBSTC)

The SBSTC is a proprietary closed-loop system that simultaneously desalts saltwater/brackish water, destroys particulates and pollutants, and recycles salt for energy storage and transfer.

Key Innovation Features:

- **Saltwater Feed + Particulate Blast Cycle:** Incoming water is preheated by waste heat. Parabolic troughs or central receiver towers concentrate sunlight to 500-800°C, evaporating pure water. High-temperature zones destroy >95% of contaminants without chemicals.
- **Salt Reuse Loop:** Concentrated brine crystallizes into high-purity salt, melted into molten-salt fluid for up to 24+ hours of dispatchable thermal energy storage.
- **System Specs (100 MWth Pilot):** 40-55% solar-to-thermal efficiency; 1-5 MGD desalination per 100 MW unit; 50-70 MW electric generation plus thermal storage.

3.3 Water-as-a-Service (WaaS) Consortium

A public-private consortium model where data center operators and power utilities purchase treated brackish and reclaimed water via dedicated pipelines. Co-locating 50-100 MGD desalination hubs with mega-campuses secures long-term, high-volume off-take agreements.

3.4 Strategic Aquifer Storage & Recovery (ASR)

Brackish Water Strategic Reserves in depleted aquifers near energy corridors using ASR technology. Treated water is banked during low-demand periods and sold at premium rates during peak summer demand or drought conditions.

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4. Tokenomics

4.1 Token Overview

Parameter	Value
Token Name	Tex2.0
Symbol	TEX2
Blockchain	Solana (SPL Token-2022)
Total Supply	1,000,000,000 TEX2
Launch Price	$0.10
Fundraising Target	$50,000,000

4.2 Token Allocation

Category	Allocation	Cliff	Vesting
Water Infrastructure	35%	6 months	Linear 36 months
Energy & SBSTC	20%	6 months	Linear 24 months
Ecosystem & Rewards	15%	None	Released per milestones
Team & Advisors	10%	12 months	Linear 48 months
Treasury Reserve	10%	12 months	Governance-controlled
Public Sale	10%	None	100% at TGE

4.3 Tri-Fold Digital Asset Strategy

Equity Tokenization via SJU STAC: The operating company's equity is tokenized on Solana using the SPL Token-2022 standard with Transfer Hook extensions. Token Access Control Lists ensure strict compliance with SEC and international securities regulations, restricting transfers to KYC/AML-verified wallets.

H2O Green Water Bond (Fireblocks x Bitbond): Tokenized municipal/corporate green bonds issued through Bitbond's bank-grade smart contract technology, integrated into the Fireblocks console. Bonds are available in fractional increments from $100, with smart contracts automating interest distributions and principal repayments.

Tex2.0 Utility Coin: The native utility coin serves as the primary medium of exchange within the WaaS consortium. Features include programmatic conservation rewards, cross-border transaction settlement, and elimination of foreign exchange friction.

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5. Fundraising & Use of Funds

5.1 Capital Structure

- **Equity Token Sale:** $50M target raise through SJU STAC on Solana
- **H2O Green Water Bond:** $5-10B initial tranche (2026-2027)
- **Texas Water Fund:** $2-4B from Prop 4 + federal matching
- **Private Partnerships:** Co-investment from data center operators and utilities

5.2 Use of Proceeds

Category	Allocation	Description
New Water Supply	50%	Brackish desalination, SBSTC, produced-water treatment
Infrastructure	30%	Pipelines, reuse systems, reservoirs
Conservation & Flood	20%	Conservation programs, flood mitigation projects

5.3 Bond Structure

- **Issuer:** Texas Water Development Board (TWDB) or state-backed SPV
- **Coupon Rate:** 2.5-3.5% (tax-exempt municipal status + green premium)
- **Credit Rating:** AAA-rated state credit + revenue from water sales
- **Digital Features:** Blockchain issuance, fractional ownership, real-time IoT ESG tracking
- **Green Framework:** Verified under ICMA Green Bond Principles + Climate Bonds Initiative water taxonomy

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6. Global Expansion Roadmap

Phase 1: Texas Pilots (2026-2028)

- Launch Tex2.0 token on Solana mainnet
- Issue $5B H2O Green Water Bond via Bitbond
- Deploy 5-10 brackish desalination pilot sites
- Secure WaaS contracts with Texas data centers
- SBSTC 100 MWth pilot facility operational
- **Projected Revenue:** $150M-300M annually

Phase 2: Caribbean & MENA Expansion (2029-2032)

- Modular desalination units deployed to Caribbean islands
- Joint ventures with MENA sovereign wealth funds
- Mineral extraction revenue stream activated
- Scale SBSTC to 1 GW capacity
- Tex2.0 adopted for cross-border water transactions
- **Projected Revenue:** $800M-1.5B annually

Phase 3: Global Footprint (2033-2035)

- Africa solar-powered desalination network
- Global WaaS consortium with 50+ partners
- Tex2.0 becomes standard water-market currency
- Full zero-liquid-discharge operations worldwide
- IPO or secondary token offering consideration
- **Projected Revenue:** $3B+ annually

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7. Revenue Streams

The integrated water-energy-finance model creates a highly resilient financial profile:

Revenue Stream	Share	Description
Water Sales	40%	Long-term off-take agreements with industrial and municipal clients
Energy Sales	30%	Dispatchable power sold to grid and co-located facilities
Mineral Extraction	15%	High-purity salt, lithium, and brine derivatives
Financial Services	15%	Tex2.0 transaction fees and tokenized asset management yield

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8. Risk Factors

8.1 Market Risks

- Water demand projections may not materialize as expected
- Energy price fluctuations could impact revenue
- Competition from traditional water utilities and other tokenized projects
- Data center market subject to economic cycles

8.2 Technology Risks

- SBSTC technology is novel and may face unforeseen engineering challenges
- Blockchain technology subject to technical failures and vulnerabilities
- Smart contract bugs could result in loss of funds
- Solana network congestion or downtime could affect token operations

8.3 Regulatory Risks

- SEC may change interpretation of securities laws for digital assets
- State and federal water regulations may change
- Environmental permits may be delayed or denied
- International regulations may restrict cross-border operations
- Tax treatment of digital securities may change

8.4 Operational Risks

- Construction delays and cost overruns
- Labor shortages and supply chain disruptions
- Environmental contamination or unforeseen impacts
- Political instability in international expansion regions
- Currency risk in Caribbean, African, and MENA operations

8.5 Financial Risks

- Token price volatility
- Liquidity constraints on secondary markets
- Interest rate changes affecting bond valuations

- Failure to achieve fundraising targets
- Counterparty risk in off-take agreements

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9. Legal Disclaimers

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Equity tokens issued on Solana. Bonds via Fireblocks × Bitbond.