

# Liquid Lifting & Power Generation System

## A New Energy Circulation Model that Enhances the Value of Hydropower

### Overview

In factories, buildings, hospitals, commercial facilities, and water treatment plants, water is typically pumped to elevated storage tanks, which results in high electricity consumption. To address this issue, the proposed invention introduces a liquid lifting and power generation system that uses high-pressure fluid to increase the internal pressure of a storage chamber, enabling liquid to be transported to higher elevations without conventional pumps.

#### 💡 Key Features of the Invention

- Significant reduction in power consumption compared to conventional pumping systems
- Superior safety and ease of handling compared to methods that use flammable gases

### Product Application

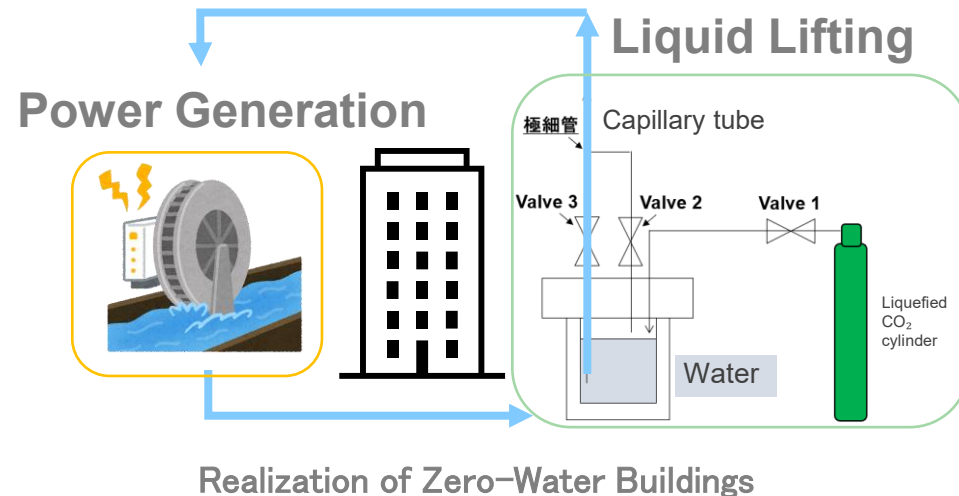
- ❑ Pump-less water circulation and micro-hydropower systems
- ❑ Liquid lifting and power generation processes using waste CO<sub>2</sub>
- ❑ Zero-Water / Zero-Energy Buildings (ZWB / ZEB)
- ❑ Integrated disaster-prevention and power generation systems for rivers and reservoirs

### IP Data

IP No. : JP2025-155895  
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### Concept Illustration



In combination with hydropower,  
the system enables energy recovery and  
circular water use, creating a new energy cycle.

### Contact

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