A Clean and Beautiful World
Beyond Waste

The Tomorrow Water Way

Differentiation & Efficiency
Creativity & Challenge
Responsibility

www.TomorrowWater.com
Source: xxx
1995 BKT Co. Korea
Daejeon, South Korea
R&D and Engineering
Corporate Headquarters

2008 Tomorrow Water
Anaheim, California, USA
Global Sales & Marketing
Headquarters

2014 BKT Vietnam
Hanoi, Vietnam
Manufacturing
**Intellectual Resources**

150 Registered Patents

40+ Government Funded R&D Projects

18% R&D Spending of Total Budget (2016)

Over 40% Hold a Masters or PhD (of 109 employees)

Dozens of Awards (Korean Top Tech Co, Best Workplace, Etc.)
Business Portfolio

Municipal Wastewater | Livestock Wastewater | Industrial Wastewater | Groundwater & Lake

Production
Biogas Plant

Savings
Energy Optimization Solutions, Turbo Blower

Recovery
Organic Waste Thermal Hydrolysis

Wastewater Treatment
Digestate, FGD

Production Process
BIO, Chemical, Food & Beverage
Our Clients

- City of Los Angeles
- Seoul Metropolitan Government
- EPRI
- U.S. Department of Energy
- Frito Lay
- CJ
- Southern Company
- AEP
- Nalco
- DuPont
- Stone Brewing Co.
- Samsung
- LG
- GS E&C
- Barstow City
- Livestock WWT Reference

Regions: InCheon, JeonNam, JeonBuk, KyungKi, KangWon, ChungBuk, KyungNam, KyungBuk, JeJu
Transforming Wastewaters from Cost Streams to Profit Streams

Tomorrow Water Process
Sustainable sanitation for developing communities

Industry Target

Industry Focus

Yesterday

Today

Tomorrow

Water Quality

Energy

Process

Convergence

Profit
Net Energy + Wastewater Treatment for Tropical Countries

A well-balanced treatment process with optimized individual technologies.

→ Maximize energy production and minimize consumption

→ Utilizes the latest in algae, hydrolysis, annamox, primary filtration, and digestion technology

→ Works even in regions with high energy costs, unstable power, low ratepayer compliance
Officially registered as the Tomorrow Water Initiative #12177

UN Partnership for the SDGs Platform

Accepted 2016 UN ECOSOC High-Level Segment
Klang River Rehabilitation

Sanitation Planning and Point-Source Pollution Control

**Construction Overview**
- Tidal Gate & Pumphouse: 1EA
- Movable Weir: 3EA
- Water Treatment Plant & Solid Waste Treatment: 3EA
- Simple Sanitation Facility: 15EA
- Dock: 9EA
- Intercepting Sewer Line & CSOs: 47km X 2EA
- River Improvement: 47km
- Bank Protection Work: 47km X 2EA
- Driveway Bridge: 2EA
- Maintenance Bridge: 1EA
- Landscape Architecture: 1SET

Malaysia
Klang River Now
Treatment Plant Location in consideration
Main treatment: screening + aeration + wetland
National Government Initiative

Municipal Water Policy and Technical Consulting

→ Key consultant in the Vietnamese government’s “Capacity Building Project”

→ Influencer for creating national environmental policy, affecting 12 main counties.

→ Guidance for training of government officials

→ Development of operations & maintenance procedures

→ Determination of new fee structures.
After President of Paraguay, Horacio Cartes, met with BKT’s CEO, Dong Woo Kim to discuss this wastewater treatment project.

**Restoration of Ypacarai Lake**

**Paraguay Government’s Lake Rehabilitation Project**

Once one of Paraguay’s main tourist attractions, Ypacarai Lake had become so contaminated that visitors were banned from swimming in its waters.

**BKT** was contracted to demonstrate an innovative solution by treating Ypacari’s nutrified water *in-situ.*
Qufu Wastewater Treatment Plant
Water-Reuse for power plant cooling water and local irrigation purpose

Capacity: 40,000 ton/day
Operating: 09/2006 ~ Present
Background: City required tighter water quality standard and the area was suffering with water shortage. The city added BBF as a tertiary process to the existing plant and they could reuse 30,000 ton/day of effluent and 10,000 ton/day discharge to the river.
Process: A2O(Existing) + BBF (Tertiary Treatment) > Water Reuse
Water Reuse type: Effluent water is reused in a power plant for cooling water
Remark: $2.7M EDCF Funded from Korea government
Proposal 1: Sequence Batch Reactor

**PUMP SYSTEM**: For influent feed and sludge wasting

**BLOWER**: Air supply for aeration
- Roots blower (Standard)
- Turbo blower (Optional)

**DIFFUSER**: Increase oxygen transfer rate
- Nano-bubble diffuser (Optional)

**MIXER**: Mix influent with remaining biomass (MLSS)

**FLOATING DECANTER**
- Supernatant discharge w/o major power consumption
- Water surface control
- Patented

Control logic

Artificial Intelligence (AI) design & Engineering

Affordable Treatment System
Proposal 2 Biological Filtration System

- Carbon Diversion
- CSO
- Climate Resilience
- Easy to operate
Proposal 3  Well-Balanced Energy Production

- Cyclic Organic Waste Thermal Treatment
- BKT Enhanced Anaerobic Digestion
- Energy Saving Nitrogen Removal

Net Positive Energy
Proposal 4: Tomorrow Water Process

From Cost Stream

- Biomass
- COWT (Thermal Hydrolysis)
- Heat Source
- Solids
- Dewatering
- BBF
- Wastewater

To Profit Stream

- Anaerobic Digester
- Liquid
- AGR
- Energy
- NO₃⁻
- Photo-Granule Nitritation
- Anammox (AMX™)
- Clean Water

FLOWER FARM

MASS
BKT has

✓ Mission & vision
✓ People
✓ Technologies
✓ Experiences
✓ Confidences

We just need more opportunities!
A Clean and Beautiful World

Beyond Waste

Thank you!

www.TomorrowWater.com