BIWASE

BIWASE

SUSTAINABLE DEVELOPMENT REPORT 2023

SCIENCE - SAFETY - ECOLOGY

REPORT OVERVIEW

REPORT MESSAGE

“SCIENCE AND SAFETY are considered to be the foundation for sustainable green ecosystem development”

From 2023, BIWASE has published the Sustainable Development Report (“SD") in parallel with the Annual Report (“AR") to better demonstrate its commitment and actions towards Sustainable Business, contributing to the overall strategic goals for the period of 2018-2025, oriented towards 2030 of the Corporation.

The Sustainable Development Report not only reflects the achievements of key business activities contributing to sustainable value, environmental-social activities but also helps Shareholders, the Management Board, the Board of Directors and other stakeholders have the opportunity to systematically review and evaluate the strategic direction, implementation according to the company's sustainable business plans.

The information published in the Sustainable Development Report ensures compliance with regulations and guidelines of the Government of Vietnam, which meets the possibly maximum capacities according to domestic assessment criteria and gradually approaches international frameworks of standards. The report refers to GRI Sustainability Reporting Standards ("GRI") and SASB standard for water supply and waste treatment industry ("SASB"). 2023 is the first year in which BIWASE publishes the Sustainable Development report; therefore, no information has been represented from previous years' reports. All information in this Report ensures consistency with information published by the Corporation.

Report period: The 2023 Sustainable Development Report is used to publish information and data for the period from January 1, 2023 to December 31, 2023 and prepared once a year.

Scope of report: All information and data published in this report are from Binh Duong Water - Environment Corporation - Joint Stock Company and 18 affiliated units.

Explanation of data: All information and data in this report are collected and made statistics by the Corporation and its affiliated units. Unless otherwise stated, the currency in this report is Vietnam Dong ("VND").

Responsibility and Content Review: This report has been reviewed and approved by the Chairman of the Board of Directors and the Management Board of the Company on March 15, 2024.
BIWASE is always ready to receive comments related to the company's Sustainable Development activities as well as report content from stakeholders.
Contact information: Mrs. Duong Anh Thu
Position: The Head of the Supervisory Board – Email: anhthuctn@yahoo.com

This English report is used for reference purposes. In case of any discrepancies between the English version and the Vietnamese version, the Vietnamese version shall prevail

STATEMENT FROM THE CHAIRMAN OF DIRECTOR BOARD

In 2023, the global economy faced major difficulties and challenges such as the political conflict between Russia and Ukraine which were being complicated, and the fighting in the Middle East gave a negatively impact on the world economic recovery after the COVID-19 pandemic. Natural disasters, droughts, storms, floods, climate change caused serious consequences; increased risks of energy security, food security, cybersecurity; Many major economies maintained tight monetary policies and high interest rates; Global trade, consumption and investment continued to decline, and the fuel crisis and the effects of the COVID-19 pandemic also had a huge impact on the world economic slowdown. These impacts directly affect countries with great economic openness, including Vietnam.

CHAIRMAN OF THE BOARD
OF DIRECTORS BIWASE
NGUYEN VAN THIEN

In that context, overcoming challenges with the timely and strong guidance of the political system, the socio-economic situation of our country 2023 was under recovery trend, the macroeconomy was stable, inflation was under control, large balances were ensured, many important results of the fields achieved the set goals and Vietnam continued to be a bright economic spot in the region and the world.

Thanks to flexible and appropriate management, drastic direction of leaders and united efforts of the entire workforce, in 2023, BIWASE achieved some encouraging results. In addition to exceeding some key targets according to the resolution of 2023, BIWASE made great efforts in expanding the scope of water supply services in some provinces such as Can Tho, Dong Nai, Long An, Quang Binh, Ca Mau, Vinh Long,... in parallel with meeting legal regulations on environmental protection, moving towards a circular economy.

BIWASE has now mastered the waste incineration technology to generate electricity quite successfully and officially put into stable operation the incineration plant with an increased capacity of 200 tons/day, having a power generation capacity of 5MW. Furthermore, BIWASE has also completed the construction of a compost plant, increasing capacity by 840 tons/day at Binh Duong Waste Treatment Complex with total current capacity of 2,520 tons/day. Currently, domestic waste generated in the province is completely treated by recycling method for compost and there is no direct landfill of organic waste.

STATEMENT FROM THE CHAIRMAN OF DIRECTOR BOARD

BIWASE's development strategy orientation until 2030 is to become a leading enterprise in water loss prevention and a leader in the capacity and scale of water supply of the country, in parallel with the autonomy in waste treatment technology combined with advanced power generation in Vietnam and Southeast Asia. Not only that, BIWASE will continue to perfect its corporate governance model to satisfy international standards. BIWASE believes that human resources will be the foundation, combined with supporting technology to strengthen BIWASE brand for sustainable development as well as satisfying expectations of customers, shareholders and investors.

With the strategic orientation and efforts and solidarity of the whole BIWASE system, we believe that with the standards of human values, technology and business ethics, professional corporate culture as well as responsibility to the community and society, BIWASE will maintain its brand name and have a high position in the water and environmental industry of the whole country and region.

On behalf of the Board of Directors of BIWASE, I would like to sincerely thank supports and companionship of BIWASE's staffs, customers, shareholders, partners and stakeholders during the past time; furthermore, I also look forward to receiving your supports in the future, to partly help BIWASE to achieve more efficiency and share more values.
Wishing you good health and prosperity!
Best regards,

Binh Duong, March 22, 2024
BIWASE's Chairman of the BoD

Nguyen Van Thien

HIGHLIGHTS IN 2023

ACHIEVEMENTS IN SUSTAINABLE DEVELOPMENT

SCIENCE

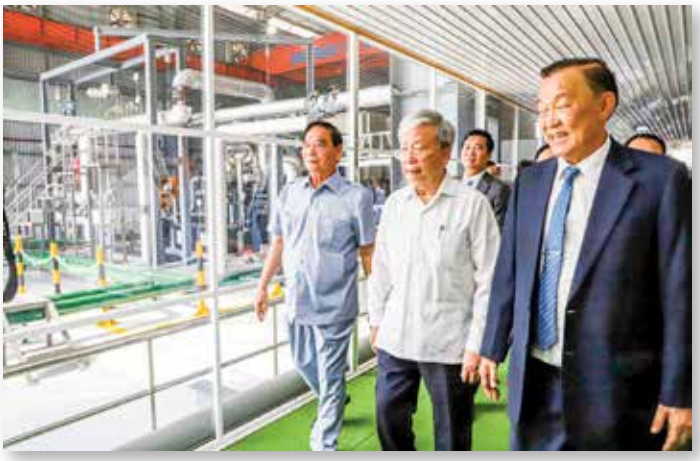
Master waste incineration technology to generate electricity quite successfully: officially operate a waste incineration plant with a capacity of 200 tons/day, heat recovery to generate electricity of 5MW, increase the total combustion capacity to over 500 tons/day.

All waste collected by the Company is closely treated 100%

Complete a composting plant with capacity of 840 tons/day at Binh Duong Waste Treatment Complex, increase the recycling capacity and domestic waste treatment to over 2,520 tons/day
Apply full circulation in the supply water treatment process: Maintain water reuse rate in the supply water treatment process at plants to reach 100%, invest more water plants in Long An by applying circulating technology.

Wastewater plants have their own 100% of collecting system, waste water after treating process meets Standard A and can be reused.

Organize 32 thematic training sessions for employees from workers to universities



General Le Hong Anh (left), former Minister of Construction Nguyen Hong Quan (middle) visited the waste incineration plant to recover heat and generate electricity designed and installed by BIWASE.

Waster incinerator 200 tons/day, heat recovery for 5MW power generation

HIGHLIGHTS IN 2023

ACHIEVEMENTS IN SUSTAINABLE DEVELOPMENT

SAFETY

Maintain well the standards of National Technical Regulations on waste treatment at waste treatment plants in 2023, especially waste odors are well managed, not spreading odors to surrounding areas.

Water drainage system maintenance: use 100% of sludge extraction equipment, drain ventilation,... ensure employee safety

No incidents of violations of environmental protection regulations was recorded in 2023

Number of occupational accidents (minor injuries) decreased compared to 2022

No wrongdoing was recorded on the part of the company or supplier related to the commitment on use of employees (not using forced labour and child labour) in 2023

No water quality impacting on customer health was recorded in 2023

Bag filter and exhaust gas treatment

HIGHLIGHTS IN 2023

ACHIEVEMENTS IN SUSTAINABLE DEVELOPMENT

ECOLOGY

Increase the proportion of people using clean water: Expand the scope of water supply services to remote and rural areas in Binh Duong, Can Tho, Dong Nai, Long An, Quang Binh, Vinh Long provinces, ...

Water resource saving: Maintain a low water loss rate at 5%

Roofs at water plants are installed with solar power, partly reducing greenhouse gas emissions

All gardens at production facilities including supply water, waste and wastewater are green, clean and safe, making a mark when guests visit and work.

Accompany 9 universities across the country to organize tours for nearly 600 students to study, exchange and improve knowledge about the environmental field.

Employees enjoy an average income of about 18,000,000 VND/month, up more than 5% over the same period last year.

Maintain benefits for female employees entitled to 1-month paid leave before giving birth, in addition to insurance and maternity benefits as prescribed by law.

Thuan An Wastewater Treatment Plant

HIGHLIGHTS IN 2023

TITLES AND AWARDS FOR SUSTAINABLE DEVELOPMENT

National Green Economy Development and Building Award 2023:
BIWASE was honored by Vietnam Economic and Trade Consultancy Association (VICETA) in two categories: "National Green Environmental Brand" and "Environmentally friendly products".

HIGHLIGHTS IN 2023

TITLES AND AWARDS FOR SUSTAINABLE DEVELOPMENT

Certificate of "Famous Trademarks – Vietnam Competitive Trademarks 2023":
BIWASE ranked Top 10 representing companies in the field of water and sanitation in Vietnam to receive the award.
BIWASE – ION GOLD bottled water brand won the award of Famous Trademarks – Vietnam Competitive Trademarks in 2023.

Certificate of Sustainable Green Economy Development Enterprise, Green Friendly Plant:
BIWASE was awarded by the Vietnam Consultant Association of Information Economic - Trade (VCAIET), the Ministry of Industry and Trade and the Ministry of Natural Resources and Environment, affirming its commitment to economic development associated with environmental protection.

Top 10 environmentally-friendly green products:
BIWASE was awarded by Vietnam Association of Environmental Industry.

HIGHLIGHTS IN 2023

TITLES AND AWARDS FOR SUSTAINABLE DEVELOPMENT

Outstanding title in urban planning in Vietnam:
BIWASE was awarded by the Vietnam Urban Planning and Development Association in the category "Urban environment quality".

HIGHLIGHTS IN 2023

TITLES AND AWARDS FOR SUSTAINABLE DEVELOPMENT

Top "50 best listed companies in Vietnam" in 2023:
BIWASE was honored by Forbes Vietnam Magazine Top "50 Best Listed Companies in Vietnam" for the fourth consecutive time.

With these prestigious awards and titles, BIWASE continues to affirm its commitment to become a pioneer in the field of clean water and environment in Vietnam, applying science and technology, developing sustainable ecosystems and protecting environmental safety to improve the quality of life for community.

TABLE OF CONTENTS

TABLE OF CONTENTS

CHAPTER 1

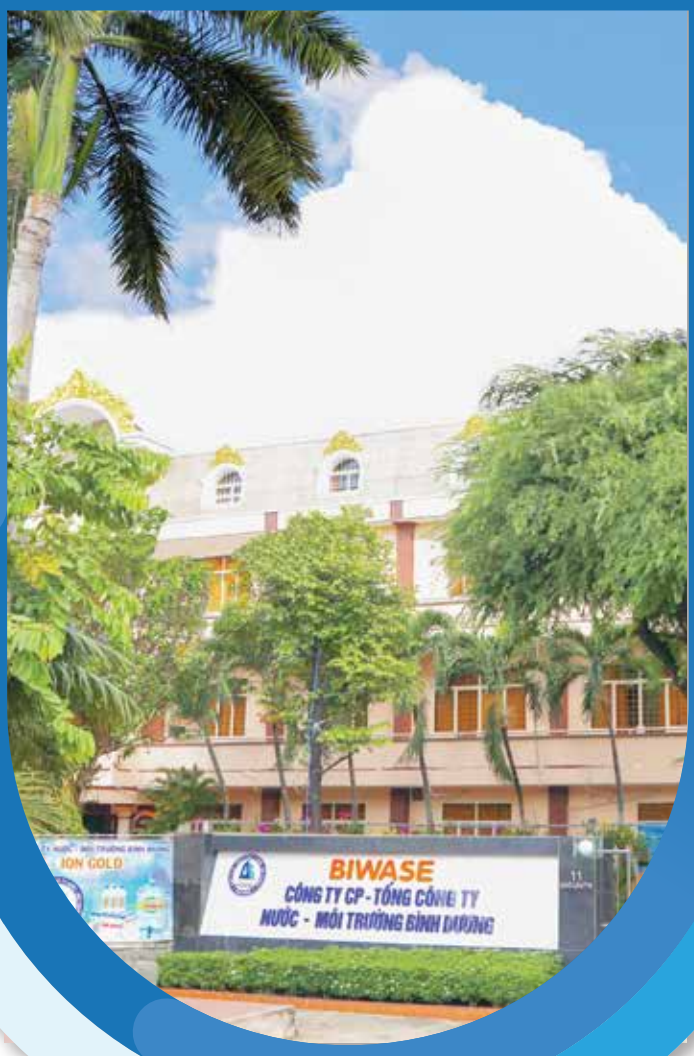
ABOUT BIWASE

Core business lines

Corporate Governance Structure

Membership in Associations

Subsidiaries and affiliated units



BIWASE

BIWASE is an abbreviation of BINH DUONG WATER - ENVIRONMENT CORPORATION - JOINT STOCK COMPANY which is currently the main water supply unit in Binh Duong province.

BIWASE was established before 1975, formerly known as "Binh Duong Water Supply Center", then changed its name to "Electricity, Water, Housing and Public Works Enterprise" under Song Be Province Construction Company in March 1979. In 2016, BIWASE was officially equitized and started listing on the Ho Chi Minh City Stock Exchange in 2017. Currently, BIWASE operates together with 18 affiliated member units.

Trading name	CÔNG TY CP - TỔNG CÔNG TY NƯỚC - MÔI TRƯỜNG BÌNH DƯƠNG
Abbreviation name	BIWASE
Stock code	BWE
Type	Listed company
Charter capital	1,929,200,000,000 VND
Address	No. 11 - Ngo Van Tri Street - Phu Loi Ward - Thu Dau Mot City - Binh Duong Province
Tel	(0274) 3 838 333 - 3 89 77 66
Fax	(0274) 3 827 738
Email	binhduong@biwase.com.vn - ctyctnbd@hcm.vnn.vn
Website	https://biwase.com.vn

Core business lines

Treating and supplying clean water:

Invest, exploit, product, treat and supply treated water to households, agencies, enterprises, services and industries with a consumption capacity of over 600,000 m3/day and night by 2023 through 9 clusters of water supply treatment plants

Collecting, transferring, recycling and treating waste:

Collect and treat domestic waste, hazardous waste, industrial waste, production of recycled products (compost, bricks). Domestic waste collection and treatment capacity will reach 2,500 tons/day, industrial waste treatment reached 500 tons/day and night and hazardous waste reached 50 tons/day and night in 2023.

Managing, operating domestic wastewater treatment plants and carrying out environmental sanitation mission:

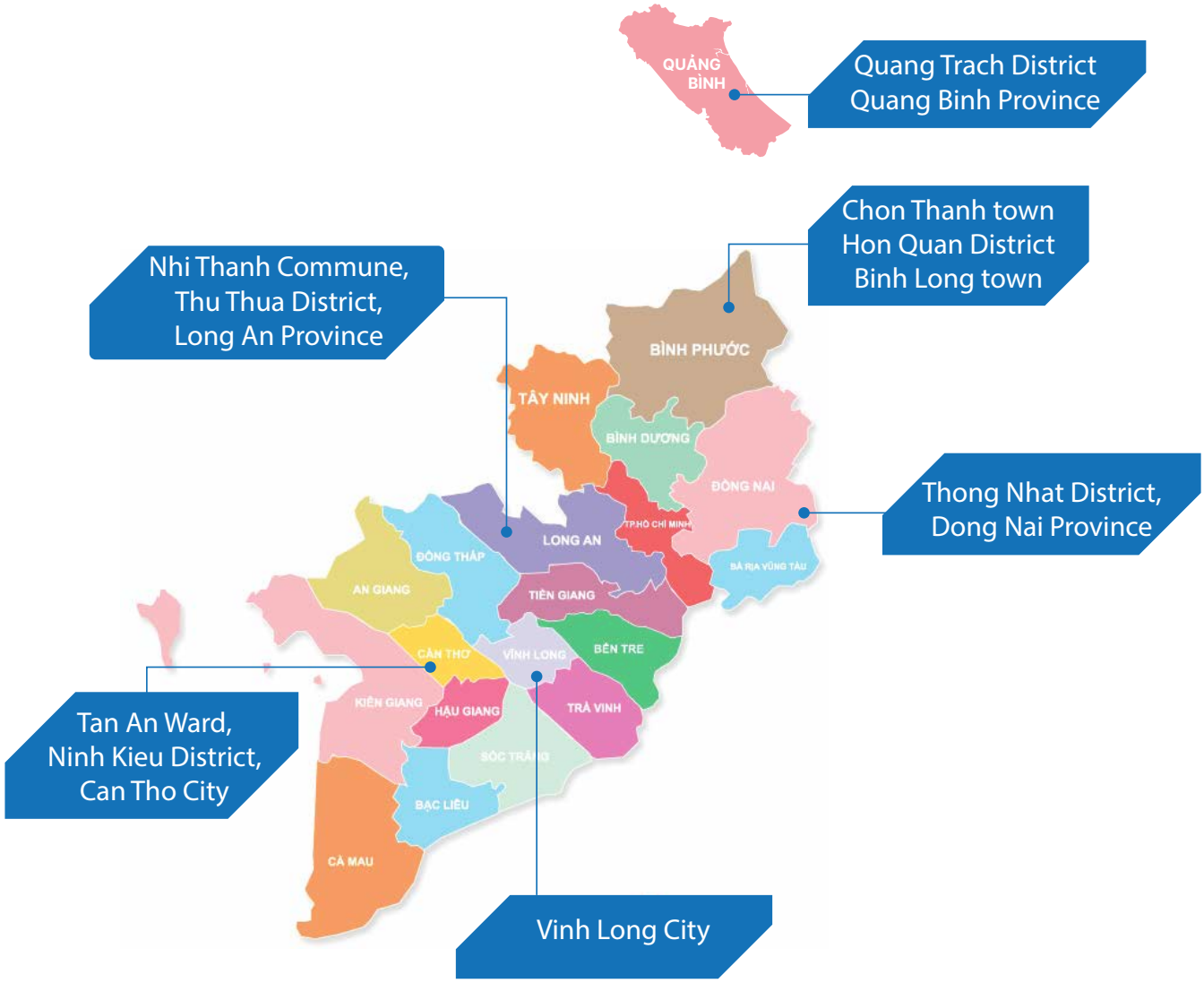
Operating and maintain domestic wastewater treatment facilities of Binh Duong province and as the only unit providing wastewater treatment and urban sanitation services in the province. In 2023, the whole province will have a wastewater treatment capacity through 4 wastewater treatment plants with capability of 90,000m3/day and night.

Area of operations

Binh Duong province: includes the entire urban area and the peripheral and rural areas, namely: Thu Dau Mot City, Thuan An City, Di An, Tan Uyen, Ben Cat Town, Bac Tan Uyen, Bau Bang District, Phu Dao and Dau Tieng District.

Binh Phuoc province: includes Chon Thanh town, Hon Quan district and Binh Long province.

Ho Chi Minh City: includes a part of the area bordering Ho Chi Minh City such as Linh Trung ward, Thu Duc district.
In 2023, the BIWASE system expanded to the areas in Long An, Dong Nai, Can Tho, Vinh Long, and Quang Binh provinces.
Nationwide: For the field of recycling and industrial waste treatment, it is licensed by the Ministry of Natural Resources and Environment to operate nationwide



Binh Duong Province:

Including the entire urban area and about 70% of the peripheral and rural areas, namely: Thu Dau Mot City, Thuan An City, Di An, Tan Uyen, Ben Cat Town, Bac Tan Uyen, Bau Bang District, Phu Dao and Dau Tieng District.

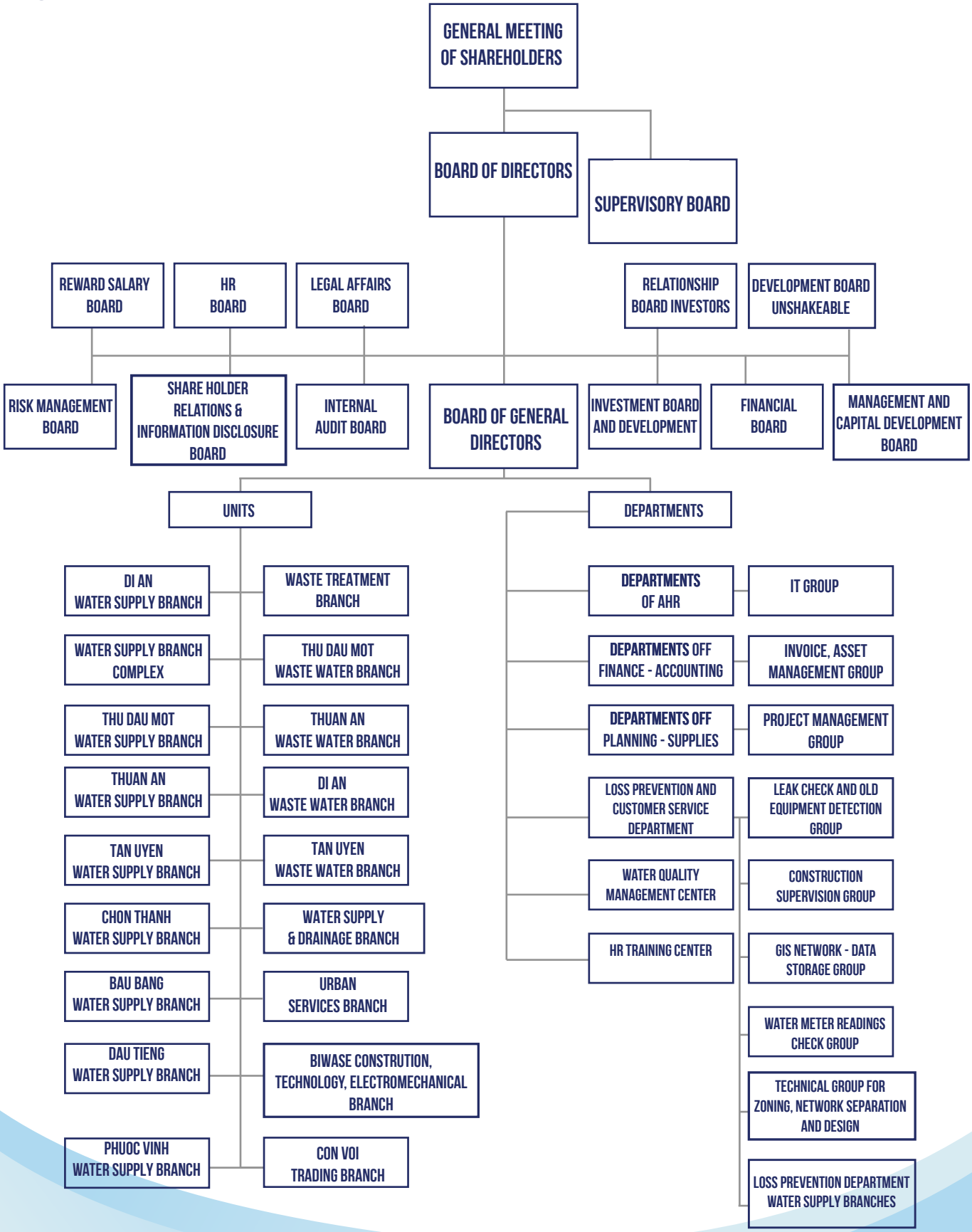
Binh Phuoc Province:

Chon Thanh town, Hon Quan district.

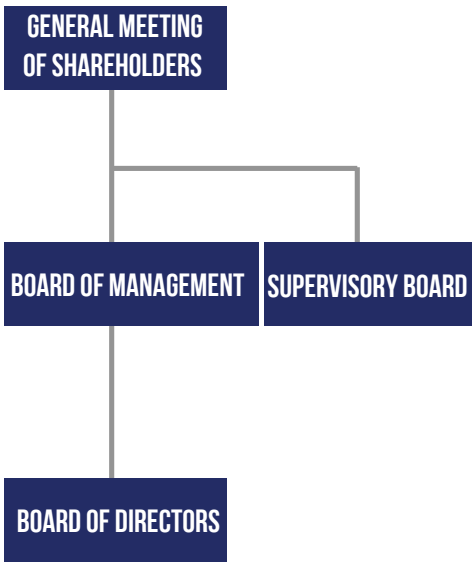
Dong Nai Province:
Thong Nhat District, Dinh Quan, Long Khanh, Cam My, Xuan Loc

Ho Chi Minh City:
Part of the area bordering Ho Chi Minh City as Linh Trung Ward, Thu Duc District.

Organization chart of BIWASE:



Governance overview of BIWASE



In 2023, the Board of Directors ("the Board"), the Supervisory Board and the Management Board have closely coordinated in the management and operation of the Company.

The Board of Directors regularly monitors, directs, supervises as well as supports the Management Board in providing solutions to run production and business activities, investment decisions in enterprises in the same industry based on BIWASE's core competencies.

The Board of Directors and the Board of Directors create favorable conditions for the Supervisory Board to effectively exercise control functions in all areas of operation of the company. All meetings of the Board of Directors invite the Board of Directors and the Supervisory Board to attend, contribute ideas to complete the mechanism and policies of management and administration of the Company, propose solutions to overcome difficulties, ensure production and business activities of the Company. The resolutions issued by the Board of Directors are highly consistent, ensuring transparency in decisions on Governance at BIWASE.

Corporate Governance Structure

Introduction of key personnel

Mr. Nguyen Van Thien - Chairman of the Board of Directors
BINH DUONG WATER - ENVIRONMENT CORPORATION - JOINT STOCK COMPANY

Mr. Tran Chien Cong

Mr. Duong Hoang Son

Mr. Nguyen Van Tri

Mr. Nguyen Thanh Phong

Mr. Ta Trong Hiep

Mr. Pham Thanh Vu

Corporate Governance Structure

Organizational structure of the Board of Directors

No.	Full name	Gender	Position	Date of appointment	Experience /Expertise	Number of shares owned	Rate of shares owned
1	Nguyen Van Thien	Male	Chairman of the Board of Directors	September 22, 2016	Master of Environmental Engineering	8.961.590	4,65%
2	Tran Chien Cong	Male	Deputy Chairman of the Board of Directors	September 22, 2016	Construction Engineer	1.590.149	0,82%
3	Duong Hoang Son	Male	Member of the Board of Directors	September 22, 2016	Mechanical Engineer	321.100	0,17%
4	Nguyen Van Tri	Male	Member of the Board of Directors	September 22, 2016	Construction Engineer	0	
5	Nguyen Thanh Phong	Male	Member of the Board of Directors	September 22, 2016	Seafood Processing Technology Engineer (Refrigeration Industry)	0	
6	Ta Trong Hiep	Male	Member of the Board of Directors	September 22, 2016	Bachelor of Economics	200.000	0,10%
7	Pham Thanh Vu	Male	Member of the Board of Directors	March 31, 2022	Master of Business Administration	0	

Organizational structure of the Supervisory Board

No.	Full name	Position	Date of appointment
1	DUONG ANH THU	The Head	September 22, 2016
2	NGUYEN DUC BAO	Member	March 20, 2018
3	NGUYEN THI THU TRANG	Member	March 31, 2023

Corporate Governance Structure

Organizational structure of the Board of Directors

No.	Full name	Position	Date of appointment
1	TRAN CHIEN CONG	General Director	October 01, 2016
2	DUONG HOANG SON	Deputy General Director	October 01, 2016
3	NGO VAN LUI	Deputy General Director	October 01, 2016
4	PHAM THANH HUNG	Deputy General Director	March 17, 2020
5	MAI SONG HAO	Deputy General Director	March 08, 2022
6	TRAN TAN DUC	Chief Financial Officer	March 31, 2023

Corporate Governance Structure

Competency Matrix of Board of Directors:

The matrix is compiled based on the List of training certificates of Board members and advanced programs organized for Board members during the year, in order to ensure effective corporate governance by competent and professional Board members. Below is a competency matrix of board members as of the end of 2023:

Member of the Board of Directors	Position	Professional experience				Industry knowledge								
		Corporate Governance	Finance	Environment	Technique	Technology	Risk management	Accounting	Strategy	International Business	Acquisition and merger	Marketing	Law	ESG
Nguyen Van Thien	Chairman	x	x	x	x	x	x	x	x	x	x	x	x	x
Tran Chien Cong	Deputy	x	x	x	x	x	x	x	x	x	x	x	x	x
Duong Hoang Son	Deputy Chairman	x		x	x	x	x	x	x		x	x		x
Nguyen Van Tri	Member	x	x		x	x	x	x	x		x	x	x	
Nguyen Thanh Phong	Member	x	x	x	x	x	x	x	x	x	x	x	x	
Ta Trong Hiep	Member	x	x	x	x	x	x	x	x	x	x	x	x	
Pham Thanh Vu	Member	x	x				x	x	x	x	x	x	x	

Corporate Governance Structure

During the period, BIWASE's Board of Directors attended a number of advanced training courses related to sustainable corporate governance activities organized by international prestigious partners and workshops/conferences/ seminars to update new trends and legal regulations organized by state management agencies, which highlights the following topics:

No.	CONTENT	DURATION	ORGANIZER, LOCATION	ATTENDEES
1	Training Program to improve water supply management capacity for BIWASE	June 18-25, 2023	JICA, Korea	Mr. Nguyen Van Thien-Chairman of the Board of Directors Mr. Mai Song Hao- Deputy General Director
2	Board Member Certification Program-DCP20	March 16-18, 2023	VIOD, Ho Chi Minh City	Ms. Le Ngoc Lan Thao-Process Developer Secretary of the Board of Directors
3	Board Member Certification Program-DCP20	August 17-19, 2023	VIOD, Ho Chi Minh City	Ms. Nguyen Thi Mong Thuong-Chief Accountant
4	Program "Good Corporate Governance Practices Beyond Compliance-Create Sustainable Development Value from Breakthrough Leadership Thinking"	March 7, 2023	VIOD, Ho Chi Minh City	Mr. Nguyen Van Thien-Chairman of the Board of Directors Mr. Tran Chien Cong-General Director Mr. Ta Trong Hiep-Member of the Board of Directors Mr. Nguyen Thanh Phong-Member of the Board of Directors Mr. Pham Thanh Vu-Member of the Board of Directors
5	In-depth training workshop on Green bond issuance according to international standards	May 10, 2023	Ministry of Finance, Hanoi	Mr. Tran Chien Cong-General Director Mr. Tran Tan Duc-Chief Financial Officer Ms. Duong Anh Thu-Head of the Supervisory Board
6	Key staff training	March 9, 2023	BIWASE, Binh Duong	Leaders of the Company, key officers of branches and affiliated units
7	Training on plan review, decision making, evaluation of target effectiveness according to ISO standards	April 10, 2023	BSI Consultant	Leaders of the Company, key officers of branches and affiliated units

Membership in Associations

Name of association	Membership
Vietnam Water Supply and Sewerage Association (VWSA)	Member
Viet Nam Association For Safe water and Environmental (AWATEN)	Member
Vietnam Urban Environment and Industry Zone Association (VUREIA)	Member
International Water Association (IWA)	Member

Workshop on the quality of urban environmental sanitation. Current situation and solutions organized by Vietnam Association of Urban Environment & Industrial Parks in Binh Duong

Vietnam Water Week 2023 organized by Vietnam Water Supply and Sewerage Association held in Binh Duong

3rd Meeting of the Executive Committee of Vietnam Water Supply and Sewerage Association, Term 2020 - 2022

Annual Meeting of Vietnam Water Supply and Sewerage Association 2019 held in Binh Duong

Subsidiaries and affiliated units

Company Name	Number of outstanding shares	Number of shares held by BWE	Charter capital (VND)	
Subsidiaries				
BIWASE ELECTRIC – CONSTRUCTION JSC	20,000,000	10,400,000	200,000,000,000	52.00%
BIWASE - LONG AN WATER JSC	64,400,000	60,880,740	644,000,000,000	94.54%
BIWASE CONSULTING ONE MEMBER CO., LTD	1,000,000	1,000,000	10,000,000,000	100.00%
BANG TAM WATER AND ENVIRONMENT CORPORATION	1,200,000	923,500	12,000,000,000	76.96%
CAN GIUOC URBAN PROJECT JSC	419,300	407,855	4,193,000,000	97.27%
CHAU THANH URBAN PROJECT JSC	688,500	661,400	6,885,000,000	96.06%
Affiliated Companies				
CHANH PHU HOA JOINT STOCK CONSTRUCTION AND INVESTMENT COMPANY	54,300,000	23,832,133	543,000,000,000	43.89%
GIA TAN WATER JOINT STOCK COMPANY	47,750,000	16,005,276	477,500,000,000	33.52%
Can Tho 2 Water Supply JSC	11,773,316	5,752,584	117,733,160,000	48.86%
Can Tho Water Supply - Sewerage JSC. (CTW)	28,000,000	6,900,000	280,000,000,000	24.64%
Long An Water Supply Sewerage Joint Stock Company (LAW)	12,200,000	4,643,740	122,000,000,000	38.06%
Quang Binh Water Supply JSC (NQB)	17,230,204	7,065,000	172,302,040,000	41.00%
THU THUA PROJECT JOINT STOCK COMPANY	1,812,433	874,494	18,124,330,000	48.25%
Companies with contributed capital				
Dong Nai Water Supply JSC (DNW)	120,000,000	22,600,000	1,200,000,000,000	18.83%
BINH DUONG PRODUCING AND TRADING CORPORATION (PRT)	300,000,000	12,000,000	3,000,000,000,000	4.00%
THANH LE CORPORATION (TLP)	236,600,000	1,200,000	2,366,000,000,000	0.51%
SONADEZI CORPORATION (SNZ)	376,500,000	141,000	3,765,000,000,000	

CHAPTER 2

SUSTAINABLE DEVELOPMENT FOUNDATIONS

Strategic Vision for Sustainable Business

Sustainable development core forces

Sustainable Development Goals

Strategic Vision for Sustainable Business

As a utility service enterprise serving the community, BIWASE always follows the strategic direction of Sustainable Business with following mission and business philosophy:

MISSION

Civilized, livable cities - People are safe, healthy, happy, enjoyable.

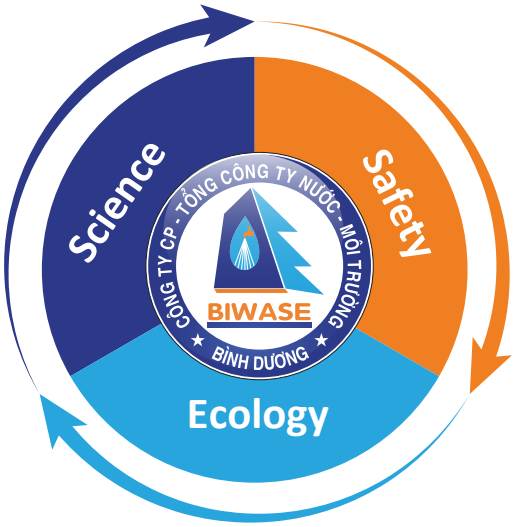
BUSINESS PHILOSOPHY

To serve people, customers and society is happiness of every employee of the company

Sustainable Development Core Forces at BIWASE

To achieve Sustainable Business goals, BIWASE implements projects and activities around the following 3 core forces of Sustainable Development:

Develop a closed circular economy model.
Apply the latest scientific and technological techniques in the process of water treatment, wastewater and recycling and waste treatment.
Master advanced power generation waste incineration technology.
Regular training to improve scientific and technical capacity of cadres and employees;.



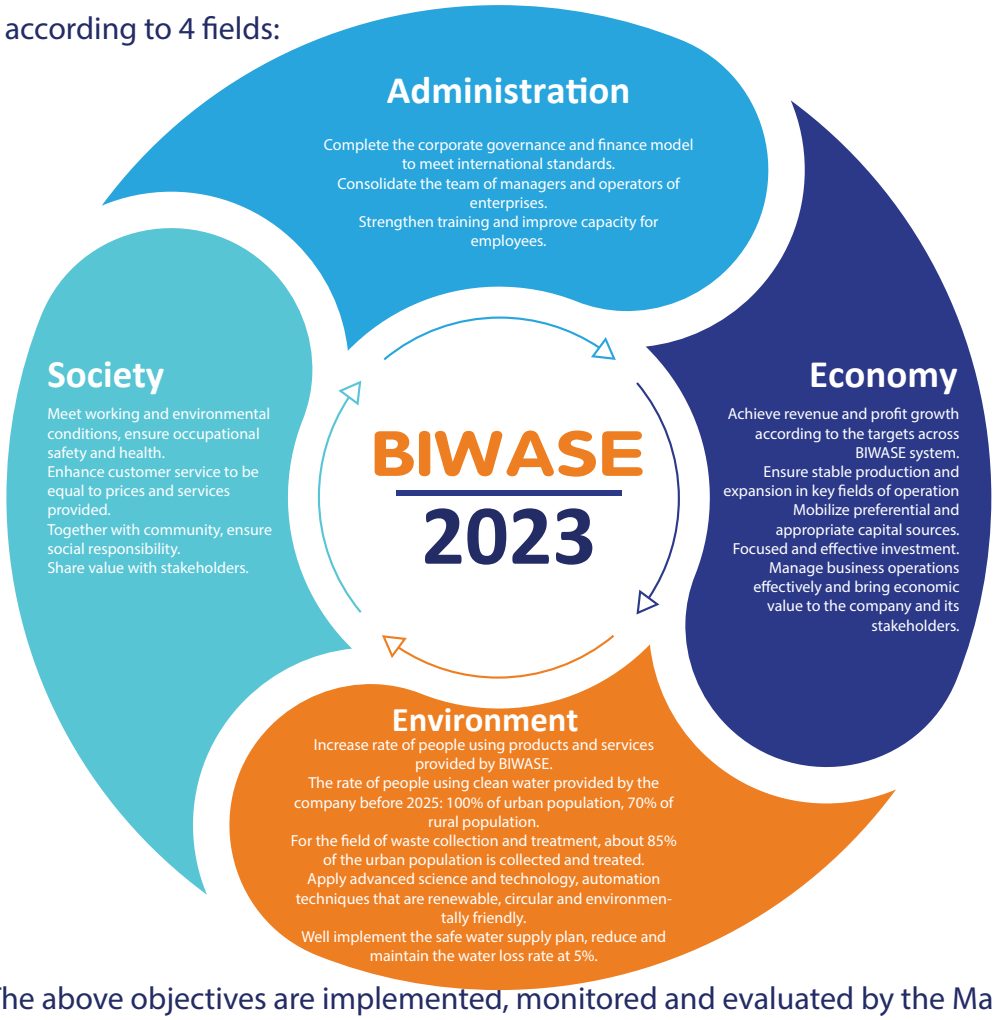
Apply treatment measures and control throughout the process to ensure environmental safety.
Comply with the health and safety of customers using BIWASE's products and services.
Focus on safety and health of employees, both physical and mental.
With characteristics that the infrastructure construction industry need a large initial investment, BIWASE makes investments in conditions ensuring capital adequacy with sustainable financial capacity.

Practice in creating positive impacts on ecosystem such as: saving water through maintaining water reuse rate in production, maintaining a low water loss rate, recycling and reproducing waste products from waste, ...
Organize a committee for management and control of Environment – Safety – Social Risks ("E-S-S"), hande incidents with negative impacts on environment and community.
Give practical values to community: expand scope of water supply to disadvantaged areas, invest in repairing water supply and drainage infrastructure, supporting and sponsoring communities and disadvantaged groups in society through social security programs, ...

The core forces are integrated into the objectives and serve as a guideline for BIWASE's 2023 activities, including those published in this report. From Chapters 5 to 8, BIWASE uses colored marking labels to recognize Science, Safety, and Ecology criteria in their respective published contents.

Sustainable Development Goals

Goals 2023 according to 4 fields:



The above objectives are implemented, monitored and evaluated by the Management Task Force on Sustainable Development:

No.	Department	Position	Full name
1	GENERAL MANAGEMENT	Head of Sustainable Development Department	Tran Chien Cong
2	ENVIRONMENT DEPARTMENT	Deputy Head of Sustainable Development Department	Duong Hoang Son
		Member	Truong Van Nghia
		Member	Mai Thi Dep
		Member	Do Tien Trong
3	SOCIAL DEPARTMENT	Deputy Head of Sustainable Development Department	Le Nhan
		Member	Nguyen Thi Ngoc Thanh
		Member	Nguyen Thi Dien
		Member	Nguyen Phuong Toan
		Member	Pham Thi Cam Tu
4	ADMINISTRATION DEPARTMENT	Deputy Head of Sustainable Development Department	Duong Anh Thu
		Member	Le Ngoc Lan Thao
		Member	Nguyen Thi Thu Trang
		Member	Nguyen Duc Bao

Structure, roles and responsibilities should be also seen in Chapter 6 – Structure of the Sustainable Development Committee

CHAPTER 3

STAKEHOLDER ENGAGEMENT

Stakeholder engagement

Stakeholder engagement

Stakeholder	Concerns	Approach	BWE's engagement activities
Customers	• About water supply: Ensure the quality of water supply services, As a clean water business unit, ensure adequate water supply for all customers with the best quality and service. • About waste treatment: Ensure optimal technology, environmental safety, thorough treatment, cleanliness in waste collection, treatment and recycling. • About wastewater treatment: Ensure collection and treatment, high quality; operate and maintain good wastewater treatment collection systems; advanced and civilized collection system, the highest standard processing quality (type A). • About BIWASE's products: Products such as bottled water, Con Voi fertilizer, recycled bricks and ensure product quality as well as absolute safety for users.	• Receive and answer related customer problems, information or infrastructure/system problems from water supply/waste treatment / wastewater treatment from people through the 24-hour customer care switchboard: when they arise. • Exchange and negotiate the conclusion of contracts for the provision of services/goods with customers as the basis for the consumption of water and products: in case of arising. • Interact, exchange and collect customer information about needs and aspirations through customer care staff: in case of arising.	• The receiving department will notify and coordinate with the troubleshooting unit to ensure that the water supply is not interrupted for more than 24 hours. • Take the trust and satisfaction of customers as a measure of product quality value and brand reputation in the market. • Ensure the supply of clean water, wastewater treatment, waste to meet the world's advanced science and technology at reasonable prices, in accordance with the ability and needs of customers. • Constantly apply advanced science to BIWASE's products to ensure the best quality when reaching customers.
Shareholders – investors	• Ensure the efficiency of investment capital use. • Ensure that information is public, transparent and provided in a timely manner. • Stabilize and increase business value and shares value on the stock exchange. • Constantly improve corporate governance capacity. • Equal treatment, ensure the interests of shareholders and investors.	• Hold an annual or extraordinary AGM as prescribed by law: at least once a year. • Receive and exchange via email, phone ,...: in case of arising. • Regularly meet and exchange with stock investors. • Meet with investors and shareholders to make a summary report on the production and business situation of the Company so that shareholders and investors can know the information of the company as well as promptly update the report on production and business results. • Publish information about the monthly business situation and results on the Company's website. • Participate in investor forums and seminars to share information and investment opportunities.	• Always be aware of fully implementing information disclosure procedures according to regulations to ensure timely provision of information to shareholders, investors and transparency in production and business activities. • Proactively disclose important information, likely to affect investors' interests and investment decisions closely according to BIWASE's operations. • The exchange and disclosure of information must be fair, ensuring equal investment opportunities for all investors.

Stakeholder engagement

Stakeholder	Concerns	Approach	BWE's engagement activities
Community-society	• Ensure fire protection and fighting safety and environmental safety at water plants, waste treatment plants and factories producing bottled water and fertilizer. • Economic value, facilities, healthcare, education,... donate to the local. • Charity activities BIWASE supports disadvantaged people in Binh Duong province and surrounding areas.	• Coordinate with local authorities to inspect and urge factories to comply with safety regulations such as fire protection, environmental safety periodically and as required. • Organize and sponsor social security activities, communicate to raise awareness of environmental safety in the locality.	• Production and business implementation is associated with the responsibility for environmental protection, safety and social security. • Implement annual welfare programs and activities according to the Company's plan for the community such as: building charity houses, building boarding houses for highland students, giving scholarships, bringing fresh water to salty waters in Ben Tre, donating cows to disadvantaged people, ... • Organize activities to share and support poor and difficult situations. • Sponsor events and activities of relevant agencies in the field of water and environment.
Governments, state agencies	• Contribute to the state budget. • Implement corporate social responsibility. • Implement and support the state's policy. • Comply with laws. • Develop local economics and industry.	• Contribute comments on documents, decisions and laws promulgated by state agencies. • Coordinate with inspection teams of ministries, departments, branches and specialized management departments throughout the operation process. • Participate in specialized conferences and seminars organized by ministries, departments and branches.	• Make appropriate adjustment proposals to policies and regulations that still have many shortcomings when coming into implementation, helping the Government and authorities at all levels to better implement the management. • Strictly comply with the legal provisions on tax, securities, environmental protection, labor safety,... • Proactively coordinate closely with local authorities in the construction and construction of pipes, factories, pumping stations,...
Employees	• Source of income, welfare regime and occupational safety . • Civilized, non-discriminatory working environment . • Be trained to improve capacity, skills and personal development opportunities • Recognized for dedication, contribution .	• Annual survey on working environment: once a year. • Employee conference: annual. • Summative meetings: annual. • Organize thematic training classes: annually.	• Effective internal communication through the collective labor agreement signed between the Company's leaders and employees' representatives. • Establish trade unions, veterans' associations, youth unions,... For information reception and two-way consultation • Enact and enforce appropriate policies. • Build a mechanism for direct exchange, transparent complaint resolution. • Organize internal activities of the company, arts and culture, sports, tourism,...

CHAPTER 4

KEY TOPICS

Các chủ đề trọng yếu

Critical assessment mechanism

Identifying critical issues is an important step in establishing and effectively implementing the sustainable development strategy of the Company, directly related to the above contents that will be published in this report.

Critical Assessment Approaches to Sustainable Development Topics

The steps to identify the critical issue are:
1. Identify issues with impacts on production and business activities of the Company and related parties:
Review and evaluate operating procedures in the core areas of the Company.
Consult key stakeholders.
Consult experts and consultants.
2. Make a list of critical issues based on the results of industry survey, consultation and analysis.
3. Conduct discussions with leaders at the company to select issues that are important to production and business activities and are of interest to related parties.
4. Develop a matrix of critical issues

Critical assessment mechanism

The collection, review, evaluation and approval of material issues are carried out annually by the Company before the preparation of sustainable development report.
The survey results will be input for the establishment of future sustainable development goals and strategies and sustainable development reports.
BIWASE is always ready to listen to the aspirations and concerns of stakeholders on the topic of sustainable development, with the goal of increasing the efficiency of the Company's operations and bringing more value to the community and society.

Critical topics in 2023:

The matrix of critical topics in 2023 is presented based on 2 criteria:

- Impact level of the topic on BIWASE's production and business activities.
- ConcerCritical level is rated on a scale of 1 to 5, with 5 being the most critical.
- n level of stakeholders (such as investors, employees, ...) in the topic.

Mức độ trọng yếu được đánh giá trên thang điểm từ 1 đến 5, với 5 là mức độ trọng yếu nhất.

05 topics being the highest level of concern of BIWASE and stakeholders are:

- Water source management
- Circular economy
- Application of science and technology
- Efficiency of economic activities
- Stakeholder health and safety

Critical topics in 2023:

CRITICAL TOPIC MATRIX 2023

Stakeholder's concern level	The level of impact on production and business activities of BIWASE				
	Very less critical	Critical	Critical	Very critical	Particularly critical
Particularly critical					Water source management
Very critical			- Wastewater management - Anti-corruption	- Circular economy - Application of science and technology - Economic performance - Safety and health of stakeholders	
Very critical			- Energy management	- Waste management - Water supply network management - Occupational health and safety - Human resource training and education - Employee welfare policy	
Critical			- Regulatory compliance and environmental impact management - Equality, respect and diversity - Sustainable supply chains - Social and community activities		
Critical			- Greenhouse gas emissions		
Very less critical					

Critical topics in 2023:

List of critical topics assessed in 2023:

Topics	Topic description
Circular economy	Circular economy model at BIWASE, Reduce-recycle-reuse initiatives in water, wastewater and waste treatment processes.
Application of science and technology	Research new technologies, new scientific advances to apply to the company
Water resource management and supply water treatment	Monitor and manage water quality, monitor and manage water responsiveness and stability, and manage optimal and efficient supply water treatment processes.
Water supply network management	Operate a sustainable water distribution network, prevent water loss in the network.
Waste management	Waste treatment initiatives limit negative impacts on the environment, limit odors, emissions and other pollution during treatment, manage leachate and toxic waste, and comply with regulations and standards for post-treatment waste.
Wastewater Management	Manage and implement wastewater treatment at branches before discharge, Apply the latest technology for domestic wastewater treatment and odor treatment, comply with wastewater regulations and standards.
Energy management	Optimize electrical energy during operation, use renewable energy, limit or reduce the rate of non-renewable energy use.
Greenhouse gas emissions	Strategies to reduce emissions in the factory area, implement emission reduction activities and measure greenhouse gases according to local regulations.
Regulatory Compliance & Environmental Management	Comply with regulations on environmental protection, establish processes and systems to monitor, prevent and respond to environmental incidents and pollution incidents to ensure that operation activities do not negatively affect the environment
Efficiency of economic activities	Allocate economic values to stakeholders.

Critical topics in 2023:

List of critical topics assessed in 2023:

Topic	Topic description
Anti-corruption	Anti-corruption policies, communication and training on anti-corruption, mechanisms and measures to deal with corruption.
Occupational safety and health	Ensure workplace accident prevention measures, remuneration and allowances for employees working at BIWASE.
Equality, respect and diversity	Anti-discrimination policies, respect for ethnic, gender and regional diversity in the working environment; Mechanism for receiving complaints about discrimination, mechanism for resolving cases of discrimination.
Human resource training and education	Policies and plans on training the leadership group and adjacent personnel, policies and plans on training of employees and employees, training compatible human resources to develop new technologies
Employee welfare policy	Insurance & medical services for employees, Maternity leave, Pension regime, Other obligations under welfare regimes for long-term employees/excellent achievements, Compliance with labor commitments as prescribed by law.
Sustainable supply chain	Select suppliers who meet environmental and social criteria, commit not to use forced and child labour.
Stakeholder health and safety	Quality policies and consumer protection, safe products and give values to the community and customers.
Social and community activities	Bring clean water to communities, disadvantaged areas, remote areas, sponsor and participate in social security programs to help and support communities.

CHAPTER 5

STRENGTHEN CIRCULAR ECONOMY CAPACITY

Circular economy

Water Source Management

Waste Management

Wastewater Management

Water supply network management

Energy management

Emission Management

Regulatory compliance and environmental management

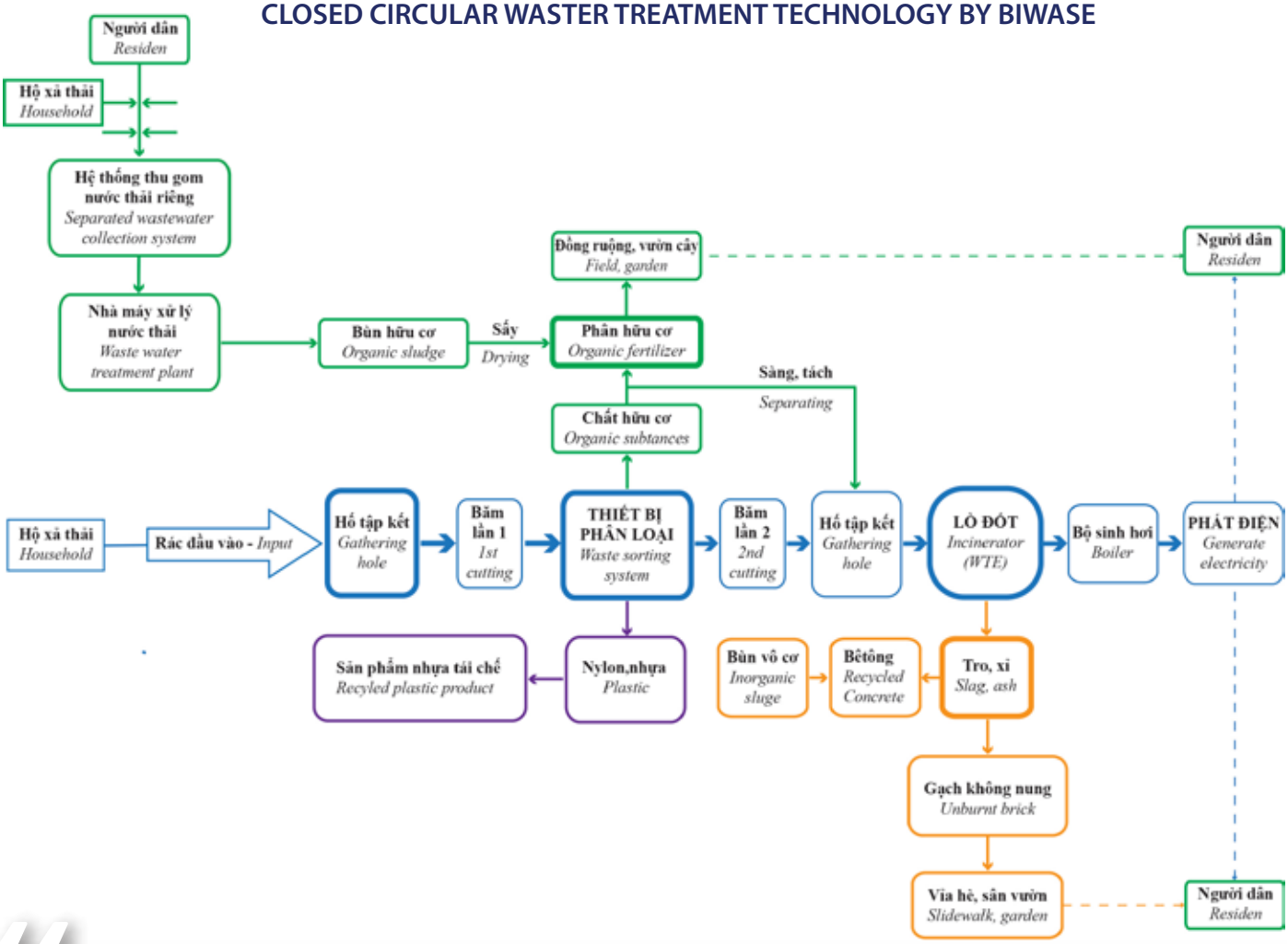
Efficiency of economic activities

Circular economy

Circulation in waste treatment:

From August 1, 2023, the 10ha sanitary landfill of BIWASE has been stopped receiving waste to switch to circular treatment. Waste trucks will be dumped at 4 pits of the treatment plant with total capacity of 2,520 tons/day. The waste is automatically sorted and separated organic waste, accounting for about 43% to make raw materials for fertilizer production of organic agriculture according to the Government's orientation. The remaining ingredients are then filtered for debris and scrap before being put into the incineration area. The heat generated from the incinerator becomes the source of energy to operate the 5MW power generation turbine for production activities in the complex and sell it to the national grid in case of surplus. After complete combustion in the remaining incineration area, about remaining 8% of slag ash will be recovered with previous debris to mix as raw materials for production of bricks of all kinds and BIWASE-branded building materials; scraps are recycled into many other useful products.

CLOSED CIRCULAR WASTER TREATMENT TECHNOLOGY BY BIWASE



"Thanks to modern technology lines, 100% of domestic waste is thoroughly and closely treated by BIWASE in a circular method to create new energy sources which are friendly with the environment and many products of scientific and economic value. With this solution, BIWASE has turned wastes into urban resources," Chairman of the Board of Directors Nguyen Van Thien said.

Circular economy

Circulation in Water Treatment:

In addition, the operation of the collection system and domestic wastewater treatment plant to clean wastewater before returning to the natural cycle shows the "kindness" of businesses to nature.

This is also the obligation to protect people's health, public health of a locality, a business towards sustainable goals.

"Persistently building and developing an environmental ecosystem, considering creative dynamism, approaching, selecting and applying modern science and technology as the center to develop green and circular economy, BIWASE sets sustainable development goals"
- Chairman Nguyen Van Thien said

Water resource management and supply water treatment

BIWASE nhận thức về tầm quan trọng của việc quản lý chất lượng nước đối với sự bền vững của hoạt động kinh doanh và sức khỏe của cộng đồng nơi chúng tôi phục vụ. Là một công ty cung cấp nước có trách nhiệm, chúng tôi cam kết duy trì các tiêu chuẩn cao về chất lượng nước trong toàn bộ chuỗi giá trị hoạt động.

Protect exploited water sources → **Ensure stability and continuity** → **Save and reduce water loss** → **Water Quality Assurance** → **Sewage sludge treatment after treat-**

Tan Hiep raw water pumping station – Capacity of 600,000 m³/ day

Water resource management and supply water treatment

Tan Hiep raw water pipe D1500 mm

Covered Water Treatment Area

Water resource management and supply water treatment

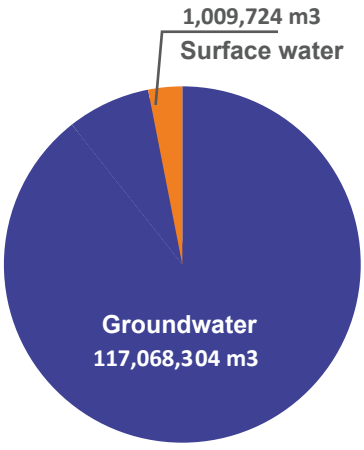
1. Protect water sources exploited

Safety

To protect water resources, BIWASE has set up watershed signs, protection corridors and built watershed protection barriers; regularly monitored the development of pollution risks, checked raw water quality. In addition, the company implements the safe water supply plan, strengthens control and protection of water sources and water supply systems; from which to ensure that water quality meets prescribed standards.

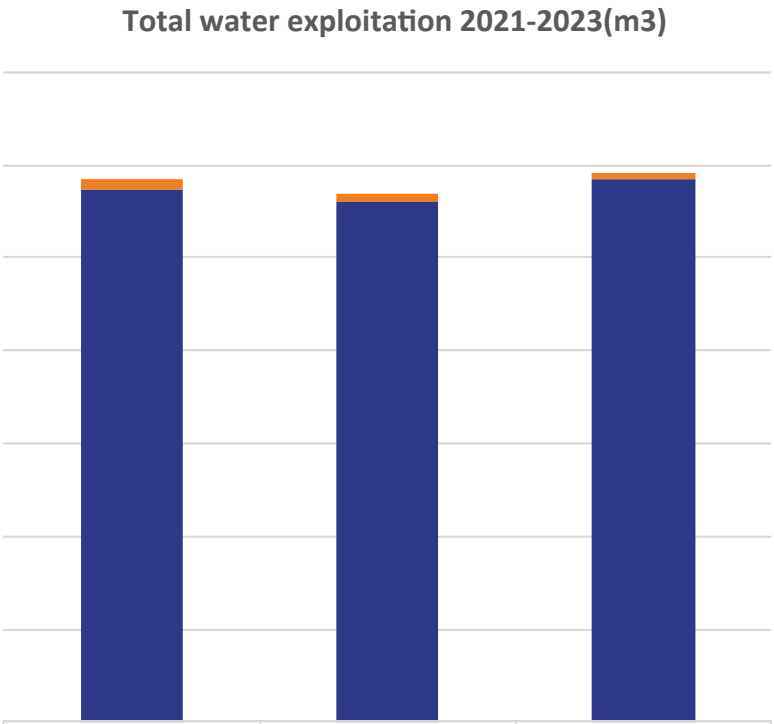
In order to prevent the risk of water pollution, BIWASE has also actively coordinated with competent agencies and local authorities to strengthen propaganda and raise people's awareness of water source protection, strengthen management and relocate discharge facilities that pollute water sources; furthermore, it has planned water basins and contributed financially to the planting and protection of forests according to state regulations to protect water sources.

Ecology



Total water exploitation 2023

Notes:
The chart takes data from water supply branches, except Thuan An water supply branch due to not having exploitation activities, in which:
Surface water is taken from rivers, streams, lakes, channels
Groundwater is taken from boreholes



	2021	2022	2023
Surface water	1,884,845	1,582,359	1,009,724
Groundwater	114,850,915	111,996,784	117,068,304

Water resource management and supply water treatment

2. Ensure stability and continuity

Safety

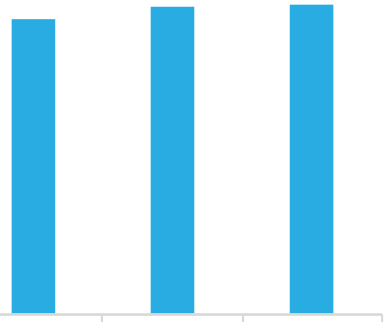
In order to maintain stability and continuity in water supply operation, the company has carried out control activities to minimize risks, strengthen the inspection and close supervision from source to customers, implement corrective measures, handle risks and incidents promptly...

Ecology

Technology

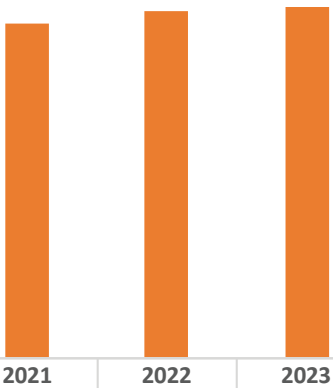
SCADA (Supervisory Control and Data Acquisition) System is used throughout the supply water treatment process to monitor operations and warn risks, ensure sustainable water management. SCADA supports a comprehensive data collection and analysis, ensures transparency and timeliness of real-time data, supports responsible decision-making, and informs system upgrades and long-term water supply plans.

Total production water output (m3)



	2021	2022	2023
Total production water output (m3)	185,758,036	193,851,126	194,617,067

Total consumption water output (m3)



	2021	2022	2023
Total consumption water output (m3)	174,091,924	181,245,771	183,066,221

Notes:

The above charts take data from Water Supply Branches, in which:

Production water is the amount of water that follows the water treatment process and enters water supply system

Consumption water is the amount of water supplied to customers

Water resource management and supply water treatment

3. Saving, reducing losses and ensuring water quality

Technology

BIWASE applies SCADA system to optimize water supply activities and ensure water supply quality. SCADA system helps minimize water and energy loss, and quickly assess water quality and interact in parallel with customers to ensure water quality and protect public health.

Safety

Organize propaganda and advocacy to raise public awareness in saving water and protecting water resources: The company has organized educational activities at schools, partly raising awarenesses, roles, responsibilities and understanding of the importance of clean water as well as environmental protection. The propaganda and education activities implemented by the Company in collaboration with relevant local departments have created great trust and consensus of the community.

Ecology

Water quality supplied by BIWASE's branches meets standard QCVN 01-1:2018/BYT

4. Recycling, reusing after treatment process

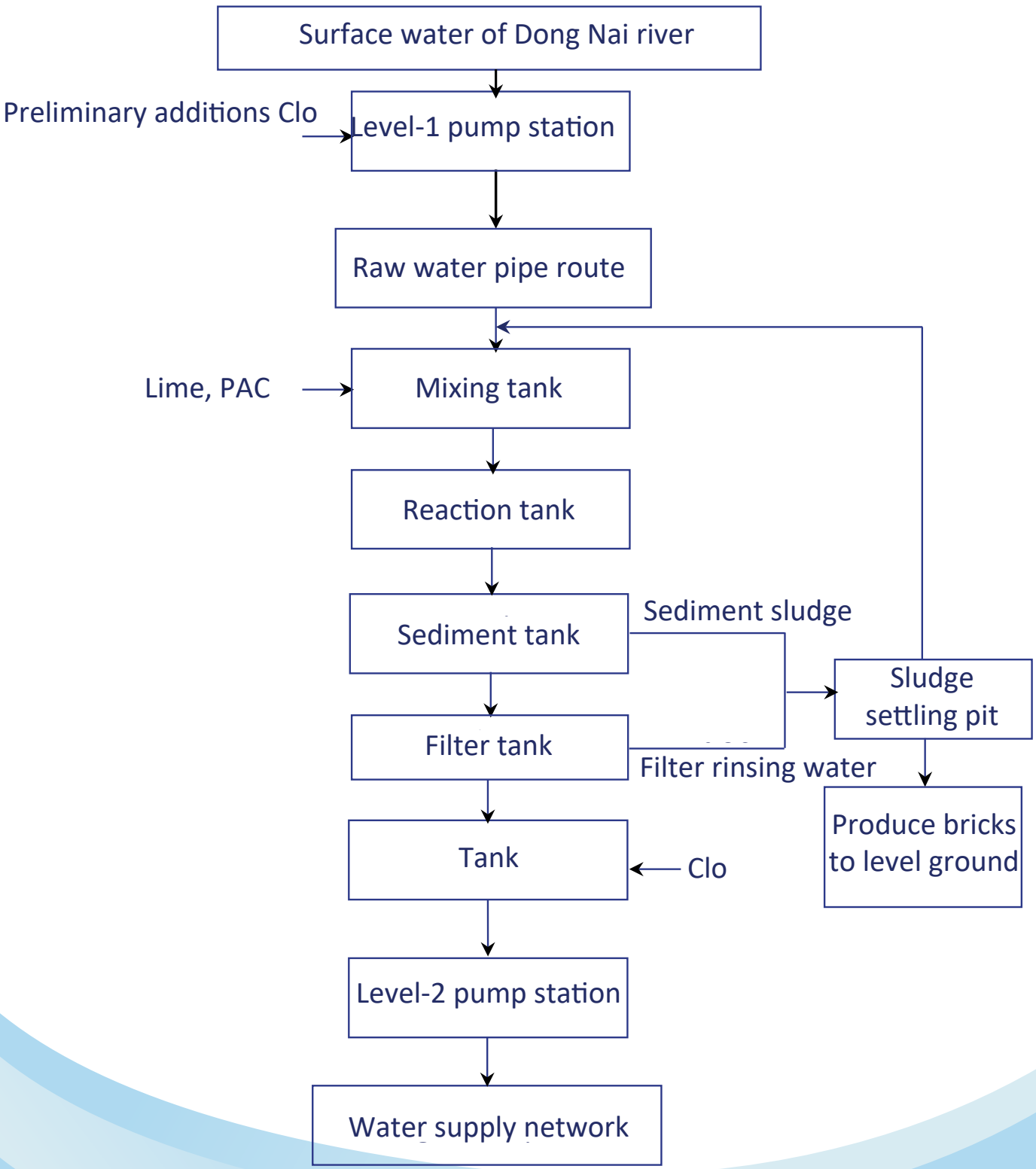
Technology

In operation at factories, in order to save water resources, all water supply branches apply circulating treatment technology, 100% of wastewater from clean water treatment process will be reused in such the process in 2023:

Water resource management and supply water treatment

4. Recycling, reusing after treatment process

CIRCULATING FEED WATER TREATMENT PROCESS



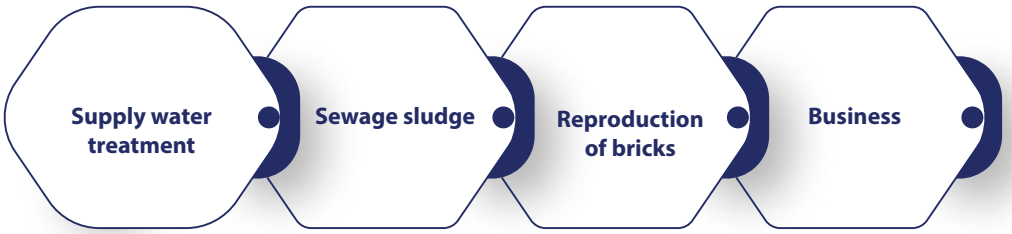
Water resource management and supply water treatment

4. Recycle, reuse after treatment (continued)

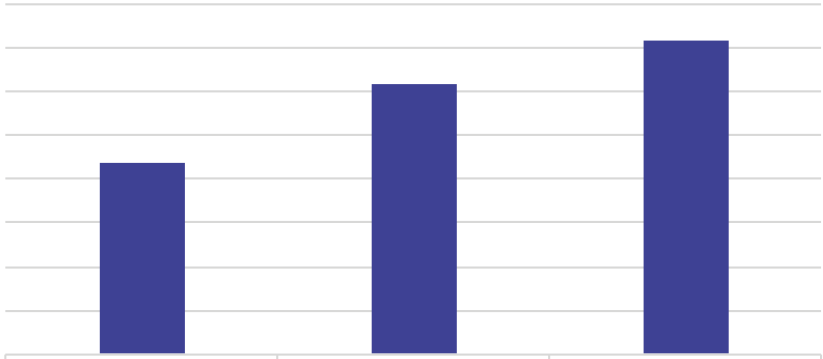
Safety

Sewage sludge after water treatment is transferred by branches to waste treatment branches for brick reproduction:

Ecology



Volume of sewage sludge from water treatment (tons)



	2021	2022	2023
Waste from production activities (sewage sludge from water treatment)	874	1,233	1,435

Notes:

The chart takes data from the Waste Treatment Branch – the recipient of sludge treatment from water supply process

Water supply network management

1. Incident response systems affecting sustainability in water supply operations:

Technology

In order to ensure the quality of water supply, BIWASE has implemented a robust emergency response system to protect water supply facilities, including pumping stations, treatment plants, and distribution systems. The system of automatic pressure measurement points, safety alarm cancels incidents thanks to automatic pressure adjustment valves that are always stable, avoiding water breakage of pipes. The system emphasizes the importance of maintaining water quality and security in emergency situations. We proactively identify potential hazards, from changes in water quality to equipment failures and network contamination.

Safety

Our comprehensive approach includes regular inspection and maintenance of pumping stations, continuous monitoring of water quality at treatment plants, and rapid response to contamination of the distribution network. BIWASE's passionate and responsible staff play an important role in the response system with the responsibility to immediately report urgent issues to management and implement corrective measures according to the set procedures. The receiving department will notify and coordinate with the troubleshooting unit, ensuring that the water supply is not interrupted for more than 24 hours. Through this system, we are steadfast in ensuring a continuous and safe supply of clean water, even in difficult situations, in order to maintain sustainability in water supply at BIWASE.

Ecology

Check for water leaks at the meter

Tan Hiep Water Plant Treatment Area

Mixing tank with capacity of 300,000m3/day

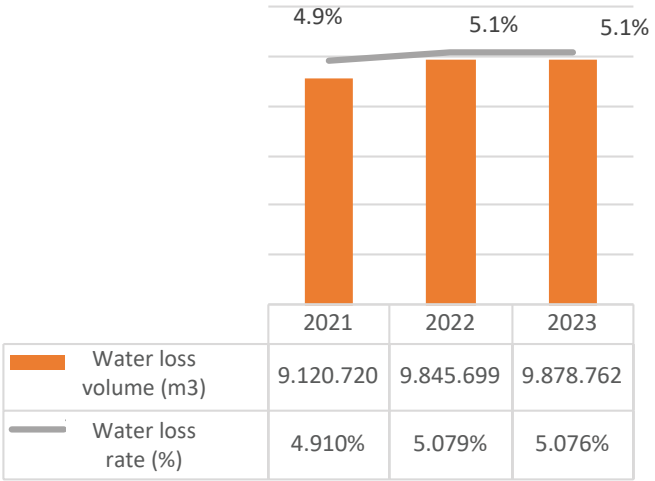
Water supply network management

1. Incident response systems affecting sustainability in water supply operations:

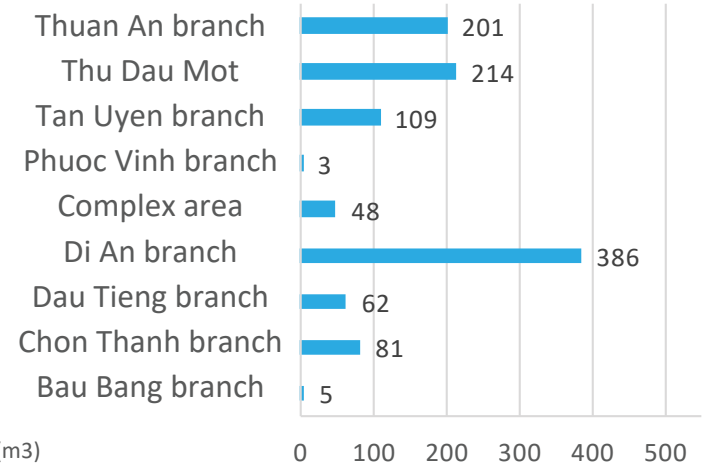
Performance results

- In 2023, the Company has invested in building and expanding pipelines, repairing and replacing many old pipes
- Water quality is tested daily according to QCVN 01-1: 2018 / BYT
- The 2023 water loss rate is low and remains at 5%
- Water loss incidents detected and dealt with in 2023 are 1,109, more than in 2022

Volume and rate of water loss 2021-2023



Number of water loss cases dealt with by branch loss prevention in 2023 (cases)



Notes:

The chart above takes data from Water Supply Branches

2. Organize training to improve the quality of network management:

The training center has developed a training plan and coordinated the training of technical workers, colleges and engineers. In 2023, BIWASE will carry out many training & coaching series to improve the network management and troubleshooting capacity of employees:

The company has also sent people to participate in training courses of Vietnam Water Supply and Sewerage Association on the formulation and implementation of safe water supply plans.

TRAINING PERIOD	TRAINING CONTENTS	PARTICIPANTS OF TRAINING/COACHING	FORM OF STUDY
August – October	Primary class "Prevention of clean water loss"	Quantity: 15 people	Learn theory and practice
	Primary class "Management of water supply networks"	Quantity: 16 people	
October-November	Primary class "Water Supply Network Management & Customer Service"	Quantity: 22 people	Train and exchange

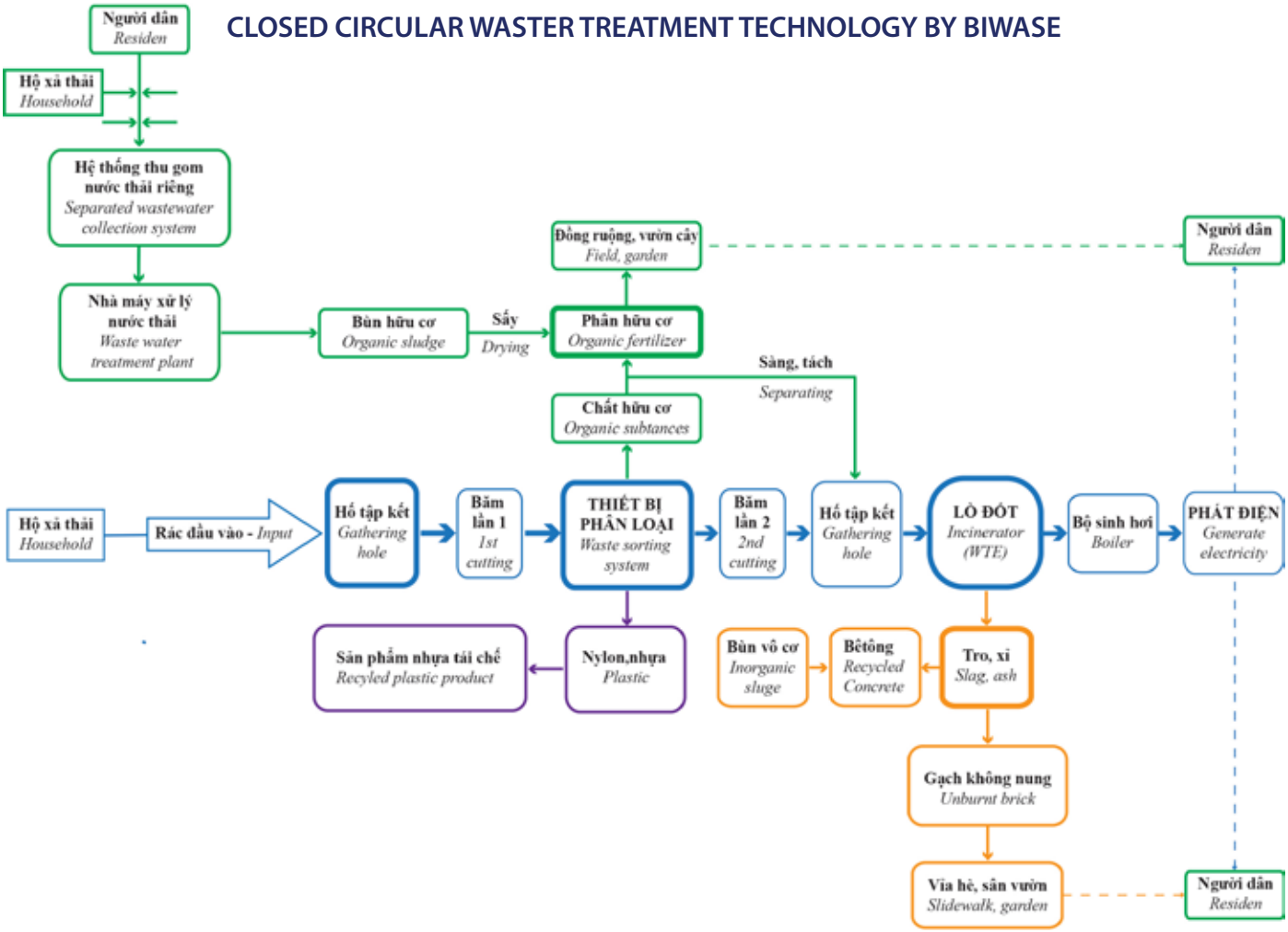
Waste Management

More than anyone else, BIWASE understands the potential dangers of waste and solid waste to the environment. Therefore, BIWASE has been constantly improving its waste treatment technologies, which not only ensures compliance with legal standards but also enhances waste treatment efficiency and minimize environmental impact in the waste treatment process, pursuant to three basic principles, including: Reduce, Reuse, and Recycle wastes. In addition, odor management solutions are also interested in limiting odor spread.

1. Recirculating waste treatment process at BIWASE:

Input waste at BIWASE's factory: including Household waste, Industrial waste, and Medical waste.

Circular treatment process:



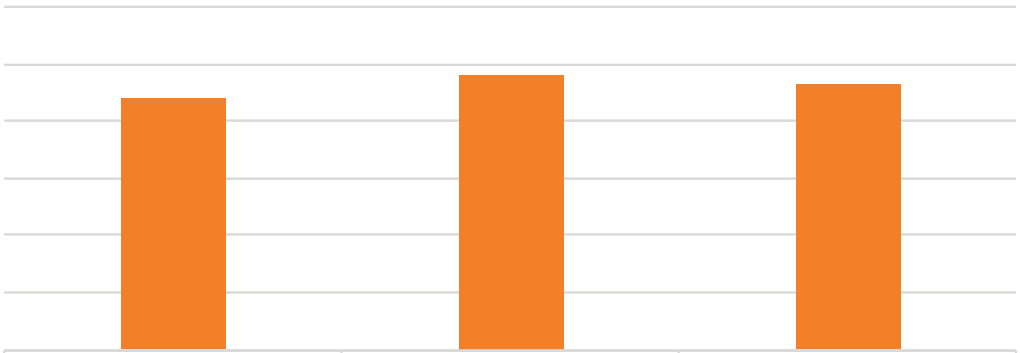
Waste Management

1. Recirculating waste treatment process at BIWASE

Circular treatment process:

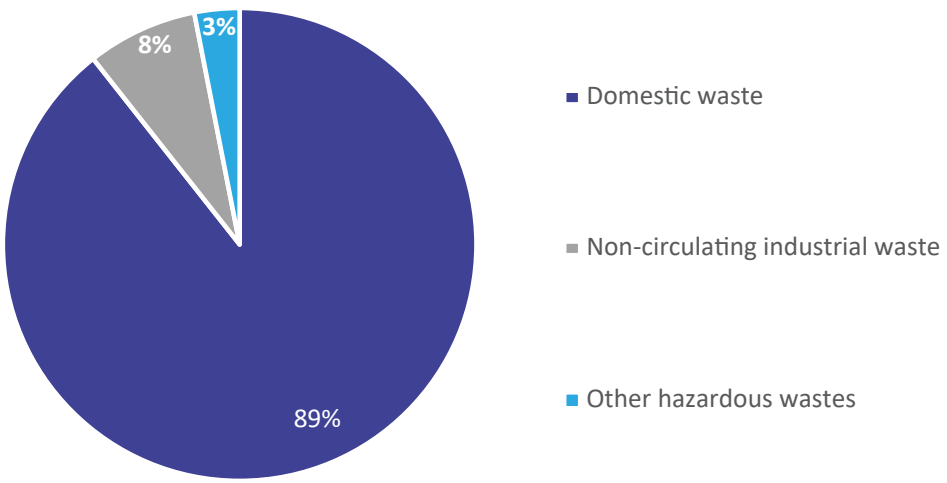
At the sorting stage, wastes will be divided into two main parts: scrap (including plastic, nylon, metal, paper,...) and organic components. After that, the scraps will be sanitized for recycling, maximum reuse while the organic component will be used as raw materials for compost production. At the same time, components that cannot be recycled and are not used as compost will be further divided into waste that can be burned to be put into the incineration process at the incinerator and waste that cannot be burned to be sent to landfill in accordance with environmental regulations. Products of incineration will be used as raw materials for the production of baked bricks and concrete while the heat generated from combustion will be recovered as energy to generate power.

Total wastes collected in 2021-2023 (tons)



	2021	2022	2023
Total collected waste	879.569	960.390	927.793

Classification of waste collection rates 2023 (%)



Notes:

The above charts take data from the Waste Branches

Waste Management

2. Activities to reduce, reuse and recycle substandard products from

a. Waste sorting:

Technology

Increase accuracy in classification, to ensure an efficient supply of raw materials for waste recycling and reuse processes, thanks to the system of garbage separator catapults and waste shredders: Before entering the waste separator, the waste will be passed through the magnetic recruiter and the task of the magnetic recruiter is to siphon out the iron, steel contained in the waste. After that, the waste separator & catapult will sort the waste into reusable finished products (plastics, large-sized cardboard when pre-sorting, metal, nylon) and waste components (a mixture of waste pulp and large-sized inert substances that are incinerated at the plant's industrial waste incinerator). From there, it will be recycled into recyclable components. For waste shredders, shredding waste helps to increase the combustion capacity of furnaces, minimize labor forces.

Upgrade waste treatment technology from Finland into a system which is more suitable for sorting in the area to increase the productivity of waste classification and treatment as well as minimize incidents and waste. Technological improvements are performed in 2023:

"Throughout the garbage treatment process at BIWASE, the waste recycle or reuse as raw materials as well as energy sources is always utilized maximumly and only buries the unusable wastes for any recycling and reuse purposes"

Waste Management

2. Activities to reduce, reuse and recycle substandard products from wastes

Problems	Improvement activities
Hot hydraulic oil affects the equipment. Easy oil spill during operation (inclined dandruff)	Move the bucket hydraulic oil tank from the top of bucket to the ground
The amount of loaded waste is locally overloaded, leading to waste jams, causing the hydraulic system to be damaged or less durable Idling time causes the bag opener to be worn out, reduced its service life	Supplement waste measuring bin
Knives are jammed, gaskets are broken, causing waste and time-consuming repair	Improve bag opener: improve from 4 to 8 shafts and increase engine power.
Organic humus not separated after sieving is still large	Improve rotary sieve cage: expand the sieve hole to Ø90mm and extend the sieve cage from 5,500mm to 15,000mm
Nylon wrap and scrap are still high	Extend manual waste selection conveyor after rotary cage sieve from 7 to 10 positions

Good classification helps:

- Maximum recycling of waste products from wastes
- Minimize pressure of waste which should be treated, incinerated and landfilled;

b. In the operation of sorting treatment before recycling:

Safety

Hazardous wastes are classified and separately treated to minimize negative impacts on the environment. BIWASE uses many different treatment methods suitable for each type of hazardous waste, chemicals:

Technology

Waste Management

2. Activities to reduce, reuse and recycle substandard products from waste

b. In the operation of sorting treatment before recycling:

Type of waste	Treatment methods
Hazardous waste solvents	• Waste solvents from garbage disposal are stored in drums, stored in solvent storage, away from heat sources. After that, proceed to electric distillation. Sewage sludge and sediment deposited during the distillation process will be recovered to storage tanks and sent to cocoons in safe landfills.
Packaging, plastic and metal drums containing chemicals	• Used packaging and drums are transported to the factory and classified according to chemicals contained in boxes. The drum after being sorted is treated by tilting, venting to recover and remove the remaining chemicals and large impurities in the barrel. It will then be passed through the rinse line with a suitable solvent, water,... Depending on the chemicals attached to the packaging, the drum uses the right type of cleaning solvent • For metal cleaning systems, wastewater generated from the rinsing system is collected and treated at a liquid industrial waste treatment plant with a capacity of 30 m3/day of treatment with grade B, QCVN40:2011/BTNMT, then sent to the treatment system of the wastewater treatment plant, capacity of 960 m3/day and night reaches grade A, QCVN 40:2011/BTNMT before being discharged to environment.
Hazardous metal parts of bulbs	• The mixture after grinding bulbs will be passed through a vibrating sieve to sort the lamp hilt, the glass part is passed through the crusher and sent to solidify. Fluorescent powder and mercury vapor are sucked out by the exhaust fan to the top of the fabric bag filter device into the activated carbon mercury vapor adsorption device.
E-waste	• Use breakers, torches to separate the recovery of metals and non-metallic materials. Recyclable components such as machine shells, plastics, metals that can be classified as recycled materials are sold to recycling units, non-recyclable parts such as electronic circuit boards, insulated glass screens are destroyed at incinerators, ash is solidified and buried safely.
Waste battery	• The waste plastic of the battery after the rinsing stages will be recycled. The resulting lead plate will be transferred to the unit with the function of recycling treatment or safe landfill, while wastewater after neutralization and wastewater after rinsing will be put into a liquid industrial waste treatment plant,with a capacity of 30 m3/day and night of treatment with grade B, QCVN 40:2011/BTNMT, then put through wastewater/liquid waste treatment plant, capacity of 960 m3/day and night of grade A, QCVN 40:2011/BTNMT before being discharged to environment. • Acid vapor is collected through suction capture and chemical vapor exhaust fan, the gas flow carrying acid vapor will be guided through the aeration tube through NaOH solution tank to neutralize the amount of acid vapor released, minimize the impact of acid chemical vapors on operators.

Waste Management

2. Activities to reduce, reuse and recycle substandard products from waste

c. In the reproduction of waste products from waste:

Technology

BIWASE expands composting production technology in accordance with Vietnam's environmental conditions:

Instead of just ending at the step of classifying into fine organic humus and coarse organic humus as the original Finnish compost production technology, in order to suit the crops, BIWASE has diversified compost production technology to create organic soil improvement fertilizer suitable for each crop such as rice, coffee, fruit trees.... This is a fertilizer of high quality and satisfying quality according to the standards as prescribed by law.

Invest in improving the capacity of treating and reproducing substandard products from waste:

In 2023, BIWASE has decided to invest in building more compost factories. This is a testament to the potential as well as the efficiency in reusing composting waste of existing factories. When two new factories come into operation, the volume of organic waste reused as compost will increase significantly, which means minimizing the amount of waste that has to be buried hygienically.

Investment Categories	Value(VND)	Project progress by the end of 2023	Officially commissioned in
Compost factory 4	459,779,962,953	95% of the plan	2023

In addition, BIWASE also invests in building an incinerator with a capacity of 200 tons.day and power generation capacity of 5MW, which will improve the ability to process waste into input materials for the brick and concrete production process.

Investment Categories	Value(VND)	Project progress by the end of 2023	Officially commissioned in
Incinerator 200 tons/day	470,888,350,467	95% of the plan	Jan 2024

Waste Management

2. Activities to reduce, reuse and recycle substandard products from waste

c. In the reproduction of waste products from waste:

Binh Duong Con Voi Organic Fertilizer

Ash recycling system as construction material

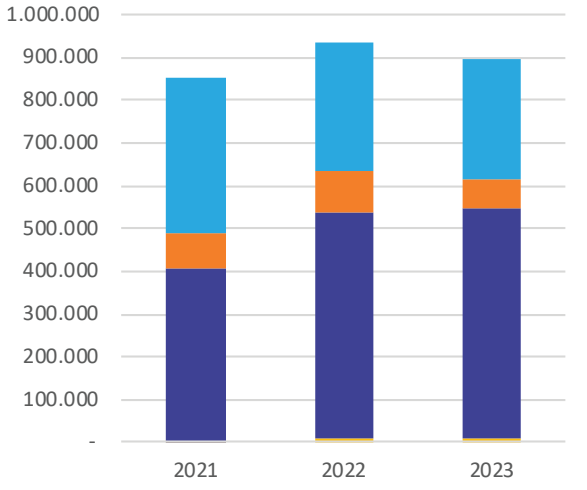
Incinerator treatment is mixed to make concrete

Waste Management

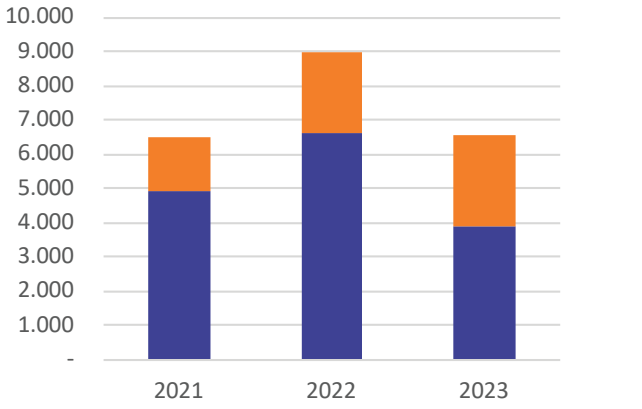
2. Activities to reduce, reuse and recycle substandard products from waste

69% of substances used for recycling and reproduction (including waste incinerated) in 2023:

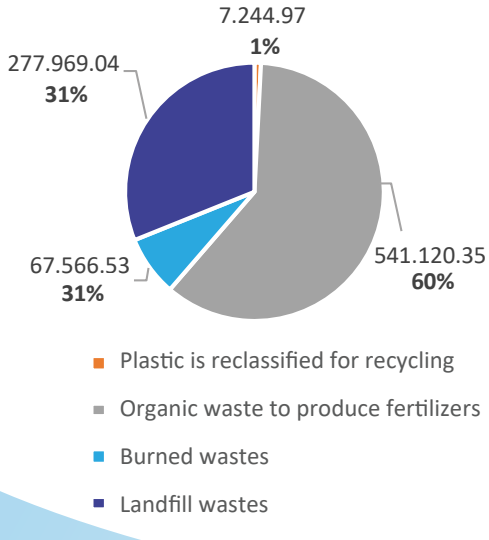
Classification of treatment methods over the years by volume (tons)



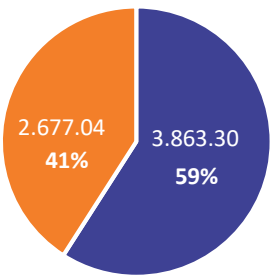
The volume of slag ash is reproduced after the incineration of waste Year 2021 - 2023 (tons)



Percentage of waste sorted by 2023 method (tons)



Volume of slag ash reproduced after waste incineration in 2023 (tonnes)



Note:

The above charts take data from the Waste Treatment Branch

Waste Management

3. Activities to reduce, reuse and recycle substandard products from waste

Safety

Limit hygienic landfill of domestic waste after sorting, focusing on recycling and incineration

Domestic waste discarded in the sorting processes at the stages to be sent to a hygienic landfill will be treated with biological products used to eliminate odors, speed up the decomposition of waste and insecticidal chemicals. Domestic waste, after treatment, is covered with HDPE tarpaulin on the surface of the garbage, for the purpose of limiting odors and flies generated, released into the surrounding environment and for the purpose of separating rainwater. In addition, this tarpaulin will be covered with soil ≥ 300mm and covered with greenery. Furthermore, leachate and contaminated rainwater will be collected centrally to the wastewater treatment station/liquid waste station of 960 m3/day and night. The landfill pit is securely separated from the surrounding area by concrete siding and covered with greenery. Gas from the sanitary landfill pit is collected to the power generation system using Bioagas, generating capacity of 1,600 KVA

Hazardous waste safe landfill treatment after incineration or concreting treatment

Hazardous waste from waste treatment processes such as ash, slag from hazardous medical waste incinerators; sediment, dust recovered from incinerator exhaust gas treatment systems, sludge from waste treatment systems containing heavy metals, etc. arranged in landfill cells must comply with the principle: wastes with the same characteristics will be buried adjacent to each other and classified by area to prevent the wastes from interacting with each other.

Water leaking at the bottom of landfill houses is controlled, collected and treated at the wastewater treatment station and liquid wastes with capacity of 30 m3/day of treatment with grade B, QCVN40:2011/BTNMT, then treated at the wastewater treatment station with capacity of 960 m3/day and night reaching grade A, QCVN 40:2011/BTNMT before being discharged to environment.

Treatment of dust, odors and exhaust gases, leachate, wastewater from waste incinerators, noise

The dust, odor and exhaust gas treatment process will go through the main stages including: NOx reduction with urea (SNCR non-catalytic reduction technology) at the secondary combustion chamber and HRSG equipment (cooling boiler) (for hazardous wastes), beam cyclon dust filter system, ventury dust treatment tower (for hazardous waste), semi-dry (absorbent) treatment system, dust filter fabric bag, activated carbon absorption tower and then discharge into the environment. Depending on the incinerator design and process as well as the toxicity of waste, the dust treatment process may change accordingly.

Currently, 08 waste incinerators of BIWASE are installed with automatic monitoring systems and transmit data directly to the Department of Natural Resources and Environment of Binh Duong province in accordance with regulations.

Ecology

Waste Management

3. Activities to reduce, reuse and recycle substandard products from waste

Technology

The incinerators are using 2-stage incineration technology, stationary bottom-type incinerators and are divided into medical waste incinerators, conventional industrial waste incinerators, and hazardous waste incinerators. Thanks to the two-chamber technology together with high temperature and long enough air retention time in the combustion chamber (≥2s for non-hazardous wastes and ≥2.89s for hazardous wastes), it ensures complete destruction of toxic wastes (especially dioxins, furans and PAH) and odors.

Standards and regulations applied during the operation of solid waste treatment systems:

Standard	Describe
QCVN 30:2012/BTNMT	National technical regulations on industrial waste incinerators
QCVN 61-MT:2016/BTNMT	National technical regulations on domestic solid waste incinerators
QCVN 02:2012/BTNMT	National technical regulations on medical solid waste incinerators
QCVN 19:2009/BTNMT	National technical regulations on industrial emissions for dust and inorganic substances
QCVN 20:2009/BTNMT	National technical regulations on industrial emissions for some organic substances
QCVN 27:2010/BTNMT	National technical regulation on vibration
QCVN 26:2010/BTNMT	National technical regulations on noise
QCVN 40:2011/BTNMT	National technical regulations on industrial wastewater

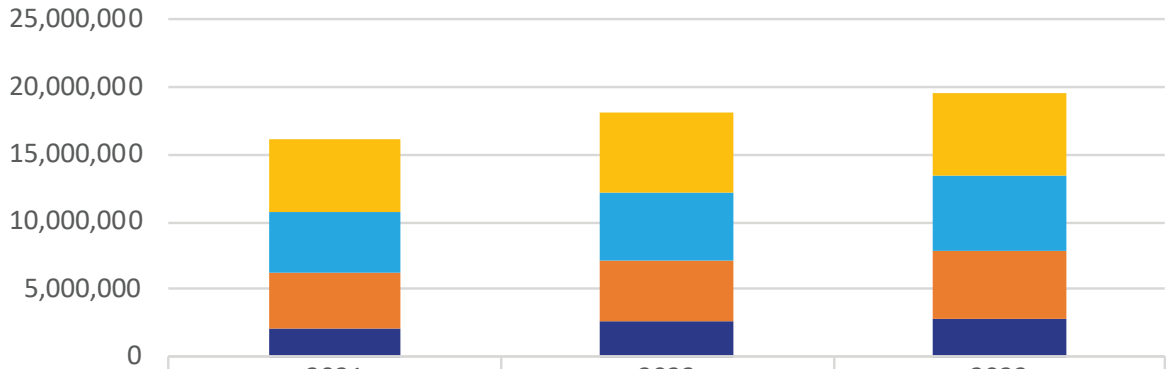
Result:

There was no incidents of violations of environmental regulations recorded at the waste disposal site in 2023.

Wastewater Management

Wastewater management is one of three core business areas and under the strategic orientation of Sustainable Business of the Company. Therefore, BIWASE promotes responsible wastewater management practic-

Total amount of wastewater treated in 2021-2023, according to the branch(m3)



	2021	2022	2023
Thu Dau Mot Wastewater Branch	5.504.763	5.984.126	6.196.477
Thuan An Wastewater Branch	4.490.824	5.030.238	5.558.868
Di An Wastewater Branch	4.070.735	4.569.399	4.971.940
Tan Uyen Wastewater Branch	2.161.211	2.566.014	2.883.875

Notes

The chart above takes data from Wastewater Treatment Branches

BIWASE's strong fleet of specialized vehicles for all types of wastewater:

Wastewater Management

Wastewater management is one of the 3 core business areas and is part of the strategic orientation of Sustainable Business of the Company. Therefore, BIWASE promotes responsible wastewater management

Safety

Ensure compliance with regulations related to wastewater management:
The company maintains strict compliance with local and national regulations, ensuring fulfillment of environmental responsibilities for wastewater quality management.

Technology

Optimize human resource and natural resources:
BIWASE's wastewater treatment processes emphasize efficiency and minimize environmental impact. The technologies applied by the Company in the wastewater treatment process such as ASBR treatment technology, UV treatment increase efficiency and minimize power consumption. In order to automatically control the entire operating process of plants and pumping stations, the control, monitoring and supervision of input and outlet water quality (parameters: flow, pH, COD, TSS) is carried out through the SCADA remote control system.

Safety

Periodic water quality monitoring:
The wastewater quality is treated, monitored and inspected periodically both to ensure the water quality of discharge areas and to ensure transparency and accountability.

Ecology

With advanced scientific and technical technology applied, the quality of treated wastewater is stable, reaching grade A, QCVN 40:2011/BTNMT and grade A, QCVN 14:2008/BTNMT

Risk management in the system:
In order to ensure that the quality of wastewater and wastewater treatment systems do not cause negative impacts on the environment and the community, BIWASE applies periodic machinery maintenance procedures with establishing procedures to respond to wastewater incidents of inadequate treatment.

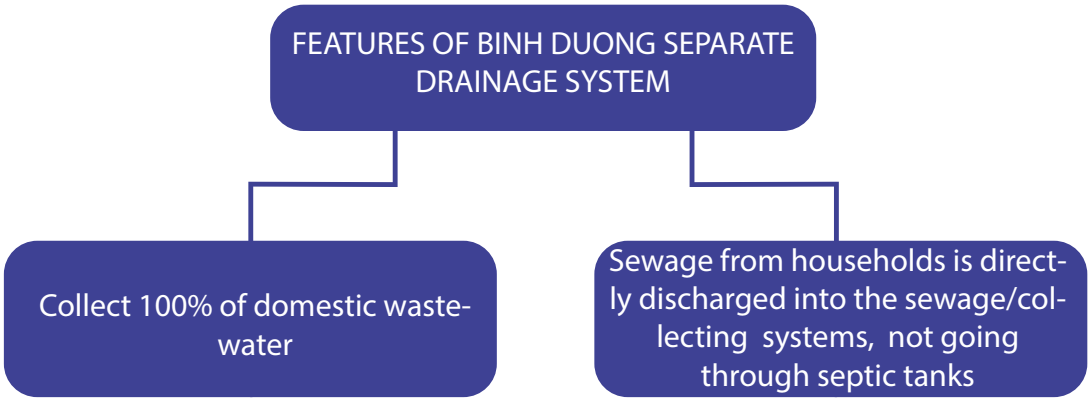
UV Disinfection System

Automatic sludge extraction truck from drainage manhole

Wastewater Management

About separated sewage system:

This is a separate wastewater system (separated from rainwater), direct collection (not through a septic tank), in front of each household's house is installed with a manhole to connect domestic wastewater pipe (bathing water, water for cleaning food, water and feces from the toilet) of the household to this manhole and wastewater come to the collection system transferred to the treatment plant concentrated domestic wastewater for treatment. This collection system does not mix with rainwater and easily controls odors; At the same time, it creates favorable conditions for the management unit to monitor, inspect and maintain.



Advantage

- The existing drainage system is clean
- No odor, so it has little impact on people's health
- Preservation of aesthetics and urban sanitation

Specialized equipment for checking inside of the collecting system

Wastewater Management

Sustainable development report 2023

Safety

Leachate/hazardous wastewater treatment process:

Leachate is extremely difficult to treat, even in developed countries, due to extremely high pollution indicators – many times higher than domestic wastewater. Therefore, the leachate treatment process is carried out through many stages at BIWASE's plant , which ensures that treated wastewater meets Grade A standards before being discharged to the environment:

Step 1: Wastewater Collection

- Hazardous wastewater from waste treatment, water leaking from the bottom of landfills, contaminated rainwater and other leachate are collected centrally to liquid industrial waste treatment plants.

Step 2: Treatment at liquid industrial wastewater treatment plant

- The collected wastewater is transferrednto the industrial wastewater treatment plant with a total capacity of 280 m3/day.
- Treated water reaches grade A according to QCVN 40:2011/BTNMT

Step 3: Treatment at wastewater/liquid waste treatment plant

- Wastewater is transferred through a wastewater/liquid waste treatment plant with a capacity of 960 m3/day.
- The treated water reaches grade A according to QCVN 40:2011/BTNMT before being discharged to the environment.

Ecology

Notes:

QCVN 40:2011/BTNMT: National technical regulation on industrial wastewater, in which:

- Grade A: Treated wastewater is allowed to be discharged to water sources used for domestic purposes.

- Grade B: Treated wastewater is only allowed to be discharge to water sources not used for domestic purposes.

Technology

Technology for treating special types of wastewater with high pollution concentration, difficult treatment:

BIWASE applies a combination and synchronization of many advanced wastewater treatment technologies such as: super-agricultural flotation technology; innovative batch biological remediation technology with continuous flow; high-order oxidation technology; RO filtration technology with special filter membrane dedicated to wastewater.

Regulatory compliance and environmental management

In 2023, BIWASE continues to affirm its commitment by maintaining strict regulatory compliance and environmental impact management. There have not been any documented violations of regulations across all of our branches. To achieve this achievement, the entire company has consistently taken compliance seriously as well as continuously monitored, evaluated, and prepared measures to promptly prevent possible risks to the local environment.

1. For waste treatment activities

1.1 Apply many scientific methods to assess the environmental impact of buildings

Safety

In order to ensure that negative impacts on the environment are minimized, BIWASE has carried out a rigorous assessment of the possible impacts of the waste treatment complex on the local environment, in consultation with experts throughout the process with the application of a variety of methods, including:

Ecology

Listing tabulation methods:

Building on the basis of a tree solution used for causal system analysis, in order to combine the causes and effects of impacts by determining the mutual relationship between the source of impact and the affected environmental factors.

Quick assessment method:

Assessment based on pollution emission coefficients, emission norms according to Decision 88/QD-UBND of Binh Duong province, Vietnamese Regulations, Vietnamese Standards, and related scientific reports for use in determining the flow, load and concentration of pollution sources of the project, to forecast the potential impacts of pollution sources and propose control and mitigation measures.

Environmental modeling methods:

Describe natural processes, processes that impact through mathematical equations. Then transfer through simulation software such as Aeromd View 8.6.0 and Mike 21 FM on the computer to give environmental forecast scenarios. This method effectively supports accurate and scientific environmental policy decision-making.

Comparative methods:

Assess environmental quality, impacts on the basis of comparison with Vietnamese standards (TCVN), Vietnamese regulations (QCVN) on environment, propose plans to minimize impacts caused by project activities on the environment, economy and society in the locality.

Matrix method:

Analyze and evaluate in an integrated way the simultaneous reciprocal and multidimensional impacts between project activities on all natural resources and environment factors in the region.

Map convolution method:

Use computer software to show the correlation relationship between the Project and natural, socio-economic objects, environmental sensitive points in the Project area.

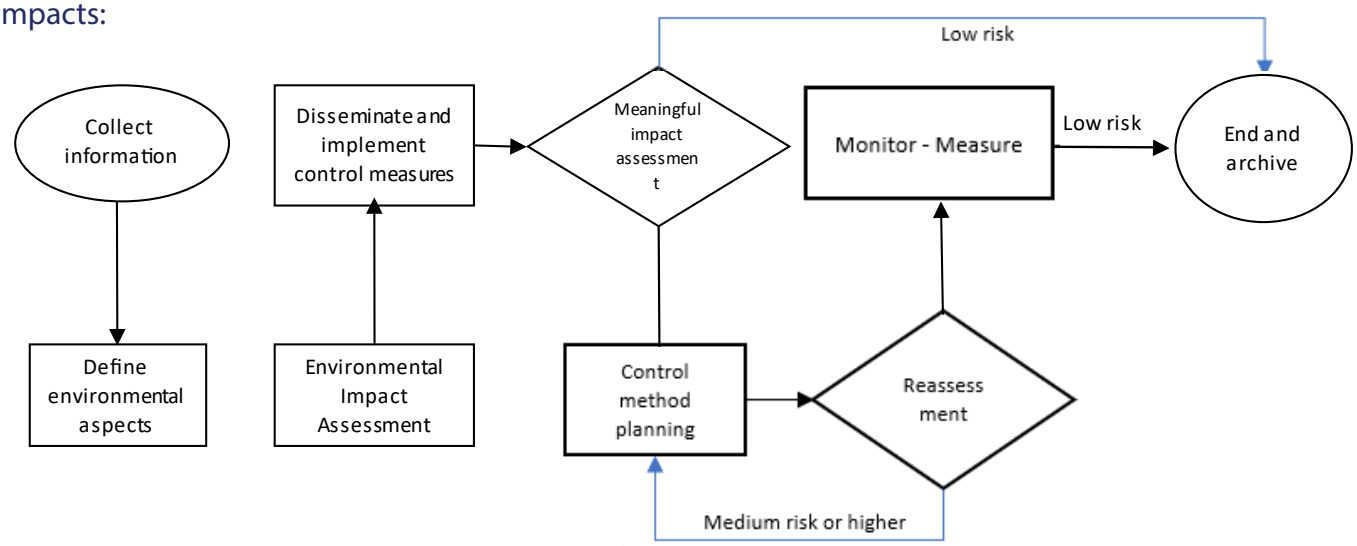
Other methods:

Field survey methods, laboratory analytical sampling methods, project area coordinate determination methods, legacy methods and expert methods.

Regulatory compliance and environmental management

1.2 Perform annual monitoring and reviews

BIWASE has been rigorously implementing a 9-step process for the annual assessment of environmental impacts:



Safety

With the goal of ensuring management efficiency, the BIWASE environmental assessment team is established with the composition of: Performers, Heads of Department and a member from the Safety – Environment – Social Committee. This group specifically focuses on critical environmental aspects (often with one or more significant environmental impacts) and continuously monitors, evaluates, and establishes timely control plans to minimize environmental risks and prevent any potentially critical incidents.

Ecology

Performance results

- *The Waste Treatment Branch has carried out an assessment and reported on Environmental Protection in 2023*
- *There will be no recorded violations of compliance with environmental protection regulations in 2023*

Environmental impact assessment scale at BIWASE

Likelihood (P)	Consequence (C)		
	1	2	3
1	1	2	3
2	2	4	6
3	3	6	9

High risk: 6-9 points
Average risk: 3-4 points
Low risk: 1-2 points

BIWASE quantified and assessed environmental impacts on a scale of 1-3, considering likelihood on probability of occurrence and severity. The assessment was conducted with a score of 1 representing the least likelihood or negligible impact. An assessment matrix with these two elements helps us accurately determine the level of risk and develop appropriate controls. For impacts assessed at medium risk or higher, BIWASE implemented additional controls to minimize impacts and risk levels to acceptable levels.

This process has helped us better understand the impact of our activities on the environment; furthermore, it also ensures that containment measures are appropriate and effective.

Regulatory compliance and environmental management

ISO CERTIFICATION OF WASTE TREATMENT BRANCH

No.	BRANCH	Issuer	Date of registration	Condition	Noted
IX	**Waste Treatment Branch**				
1	Quality Management System- ISO 9001:2015	BSI - VN	07/02/2023	Valid	Including base level (Incinerator No. 8 and Compost Factory No. 4)
2	Environmental Management System- ISO 14001:2015	BSI - VN	04/03/2022	Valid	
3	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	22/02/2025	Valid	

Regulatory compliance and environmental management

2. For wastewater treatment activities

Since its establishment, BIWASE's wastewater treatment branches have always focused and paid attention to the possible environmental impacts on operation and always proactively implemented measures to prevent and reduce pollution in the locality.

2.1 Measures to reduce ambient pollution

Safety

From design and construction stage, the sewer system has been focused by BIWASE to meet the water flow requirements of combined treatment stages, in order to limit frequent damage, help minimize pollution arising from reconstruction, causing traffic congestion on major roads.

Technology

The air conditioning coefficients for the wastewater collection system are also meticulously calculated to reduce over-capacity sewer lines leading to breakage, excavation and repair. In addition, BIWASE's pump stations are also guaranteed in terms of hydraulics and safety frames according to standard 01:2008/BXD.

Safety

Understanding the worries of residents living around the area, the factory ensures a distance of at least 40m in accordance with the provisions of Regulation QCVN 01:2008/BXD and arranges isolated perimeters with trees to create green patches (minimum width of 10m) for the purpose of minimizing pollution.

Ecology

Regulatory compliance and environmental management

2.2 Measures to reduce pollution caused by chemical spills

BIWASE signs contracts with reputable chemical suppliers, ensuring safety during the entire process of transportation, storage and use of specialized vehicles, standard isolated storage areas and closed collection systems. In addition, chemical workers are required to wear full protective equipment, masks with activated carbon layer in case of inhalation of chemical vapors when chemical spills occur.

Green and clean wastewater treatment plant.

Regulatory compliance and environmental management

2.3 Measures to reduce wastewater pollution

Technology

At wastewater treatment plants, wastewater is treated by biological methods with ASBR technology capable of removing organic and nutritional contaminants (such as Nitrogen and Phosphorus) with high treatment efficiency. After that, the wastewater will be disinfected with UV light to effectively treat the bacteria without creating toxic by-products in the water. After passing the entire treatment process, the treated wastewater is discharged to the receiving source. BIWASE ensures that wastewater treatment processes meet standards of grade A, QCVN 14:2008/BTNMT and grade A, QCVN 40:2011/BTNMT.

Safety

In operation, preventive measures such as establishing and complying with operating procedures, monitoring parameters with automatic equipment, training and guiding factory workers, installing backup devices and water flow monitoring equipment, and building waste monitoring points are also focused by BIWASE.

Ecology

ASBR tank
(Activated sludge tank treatment COD, BOD, Nitơ, Phospho)

24/7 online water quality monitoring station

Regulatory compliance and environmental management

2.4 Odor treatment measures

Safety

At the wastewater collection network, BIWASE periodically cleans sludge in manholes to avoid gas parasites and odors that pollute the surrounding area due to long-term accumulation. Cleaning workers are focused on professional training and response operations in environments affected by H2S, NH3, as well as adequate protective equipment when working.

For prevention, these sewer systems are designed and constructed to ensure that they are completely closed, always locked, do not collect rainwater or running water on the surface; Manholes are designed with strong lids made of appropriate materials to prevent odors from escaping. When damage is detected, replacement and repair work is immediately carried out by the management and operation unit.

In the area of four wastewater treatment plants, BIWASE applies modern treatment technologies and appropriate isolation standards to ensure that the operation does not create odors affecting residential areas. In addition, BIWASE also focuses on planting trees and building deodorizing stations to contribute to reducing and collecting emissions for odor-generating items.

Ecology

Odor Treatment System

Regulatory compliance and environmental management

2.5 Measures to reduce pollution caused by solid waste

Safety

Every day, domestic waste will be collected separately into containers and taken for treatment by the collection waste treatment unit, hazardous wastes will be collected and treated separately in accordance with regulations. Hazardous wastes from wastewater treatment activities are applied by BIWASE to control the process from import to storage, use, collection and treatment strictly with parties to avoid environmental incidents that may occur due to chemical spills.

Ecology

Technology

In addition, the residual sludge from the biological treatment process in the ASBR tank will be pumped through a centrifugal sludge extractor to reduce the humidity to 75% to 80%, the sludge after water separation will be stored in a specialized container with a capacity of 10 tons and transported to the waste treatment branch for production into organic fertilizer. For sludge deposited from sewer lines, BIWASE will carry out cleaning by high-pressure blowers and specialized sludge extraction trucks and bring them to the wastewater treatment plant for treatment according to the sludge treatment process.

An toàn

Sewage sludge after passing through the sludge press machine is transferred to the treatment plant as organic fertilizer for agriculture

Regulatory compliance and environmental management

ISO CERTIFICATION OF SUPPLY WATER TREATMENT BRANCH

No.	BRANCH	Issuer	Date of registration	Effect
I	**Complex Water Supply Branch**			
1	Quality Management System- ISO 9001:2015	BSI - VN	07/02/2026	Valid
2	Environmental Management System- ISO 14001:2015	BSI - VN	16/01/2023	Valid
3	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	16/01/2023	Valid
II	**Di An Water Supply Branch**			
1	Quality Management System- ISO 9001: 2015	BSI - VN	07/02/2026	Valid
2	Environmental Management System- ISO 14001:2015	BSI - VN	07/02/2023	Valid
3	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	07/02/2023	Valid
III	**Tan Uyen Water Supply Branch**			
1	Environmental Management System- ISO 14001:2015	BSI - VN	31/01/2024	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	31/01/2024	Valid
IV	**Thu Dau Mot Water Supply Branch**			
1	Environmental Management System- ISO 14001:2015	BSI - VN	29/01/2024	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	29/01/2024	Valid
V	**Thuan An Water Supply Branch**			
1	Environmental Management System- ISO 14001:2015	BSI - VN	13/01/2024	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	13/01/2024	Valid
VI	**Bau Bang Water Supply Branch**			
1	Environmental Management System- ISO 14001:2015	BSI - VN	27/12/2023	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	27/12/2023	Valid
VII	**Chon Thanh Water Supply Branch**			
1	Environmental Management System -ISO 14001:2015	BSI - VN	27/12/2023	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	27/12/2023	Valid

Regulatory compliance and environmental management

ISO CERTIFICATION OF WASTEWATER TREATMENT BRANCH

No.	BRANCH	Issuer	Date of registration	Effect
X	**Thu Dau Mot Wastewater Treatment Branch**			
1	Environmental Management System- ISO 14001:2015	BSI - VN	28/02/2023	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	28/02/2023	Valid
XI	**Di An Wastewater Treatment Branch**			
1	Environmental Management System- ISO 14001:2015	BSI - VN	03/03/2023	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	03/03/2023	Valid
XII	**Thuan An Wastewater Treatment Branch**			
1	Environmental Management System- ISO 14001:2015	BSI - VN	27/02/2023	Valid
2	Occupational Health and Safety Management System- ISO 45001:2018	BSI - VN	27/02/2023	Valid

bsi.

Giấy Chứng Nhận

HỆ THỐNG QUẢN LÝ MÔI TRƯỜNG – ISO 14001:2015

Xác nhận rằng: **CHI NHÁNH NƯỚC THẢI THUẬN AN - CÔNG TY CỔ PHẦN NƯỚC - MÔI TRƯỜNG BÌNH DƯƠNG**
Số 09 Đại lộ Bình Dương,
Phường Vĩnh Phú, Thành Phố Thuận An,
Tỉnh Bình Dương,
Việt Nam

Giữ giấy chứng nhận số: **EMS 780176**

và thực hiện Hệ thống Quản lý Môi trường phù hợp với các yêu cầu của ISO 14001:2015 cho phạm vi:

Quản lý, vận hành hệ thống, thu gom và xử lý nước thải đô thị, thông rửa vệ sinh, bảo dưỡng mạng lưới thoát nước, thi công đấu nối hệ thống thoát nước.

Đại diện cho Tập đoàn BSI: Ông Michael Lam, Giám đốc Điều hành Assurance, APAC

Đại diện cho BSI Việt Nam: Ông Lê Duyên Anh, Tổng Giám đốc BSI Việt Nam

Ngày đăng ký đầu tiên: **27/02/2023**
Ngày sửa đổi sau cùng: **27/02/2023**
Ngày hiệu lực: **27/02/2023**
Ngày hết hiệu lực: **26/02/2026**

Trang: 1/1

..making excellence a habit.

bsi.

Giấy Chứng Nhận

HỆ THỐNG QUẢN LÝ AN TOÀN VÀ SỨC KHỎE NGHỀ NGHIỆP – ISO 45001:2018

Xác nhận rằng: **CHI NHÁNH NƯỚC THẢI THUẬN AN - CÔNG TY CỔ PHẦN NƯỚC - MÔI TRƯỜNG BÌNH DƯƠNG**
Số 09 Đại lộ Bình Dương,
Phường Vĩnh Phú, Thành Phố Thuận An,
Tỉnh Bình Dương,
Việt Nam

Giữ giấy chứng nhận số: **OHS 780177**

và thực hiện Hệ Thống Quản Lý An Toàn và Sức Khỏe Nghề Nghiệp phù hợp với các yêu cầu của ISO 45001:2018 cho phạm vi:

Quản lý, vận hành hệ thống, thu gom và xử lý nước thải đô thị, thông rửa vệ sinh, bảo dưỡng mạng lưới thoát nước, thi công đấu nối hệ thống thoát nước.

Đại diện cho Tập đoàn BSI: Ông Michael Lam, Giám đốc Điều hành Assurance, APAC

Đại diện cho BSI Việt Nam: Ông Lê Duyên Anh, Tổng Giám đốc BSI Việt Nam

Ngày đăng ký đầu tiên: **27/02/2023**
Ngày sửa đổi sau cùng: **27/02/2023**
Ngày hiệu lực: **27/02/2023**
Ngày hết hiệu lực: **26/02/2026**

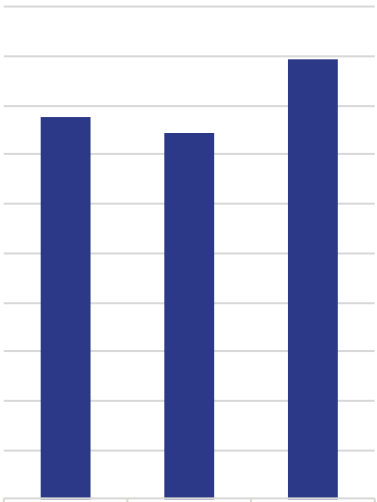
Trang: 1/1

..making excellence a habit.

Energy management

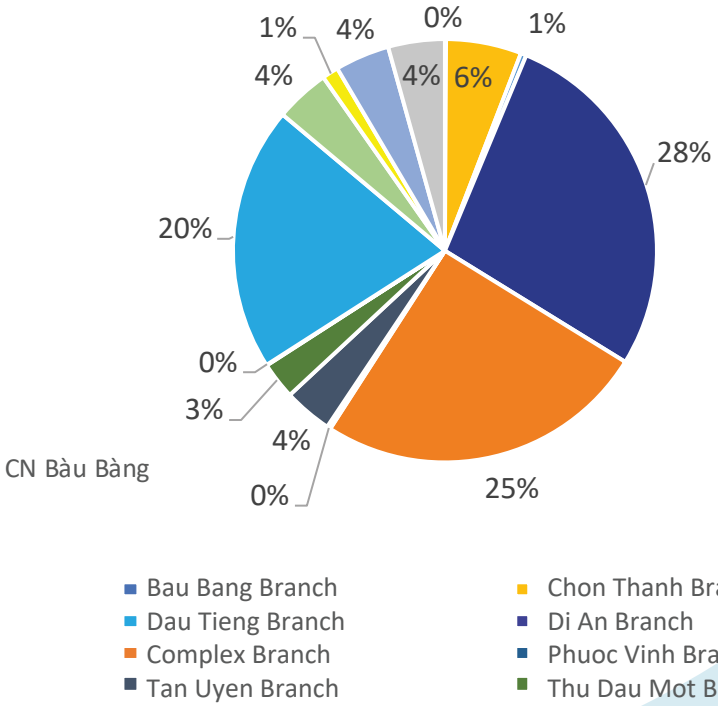
BIWASE is aware of importance of energy saving and management in its operational processes and technology. We monitor and comply with the set energy usage norms, in addition to applying technological methods to save energy, optimize energy use in operation and gradually reduce the proportion of non-renewable energy consumption at all branches.

Total electricity consumption of BIWASE system 2021-2023 (Kw)



	2021	2022	2023
Electricity consumption output	77.539.610	74.569.619	89.485.555

Total electricity consumption 2023



Note:

The charts above take data from Water Supply, Wastewater and Waste Branches

Energy management

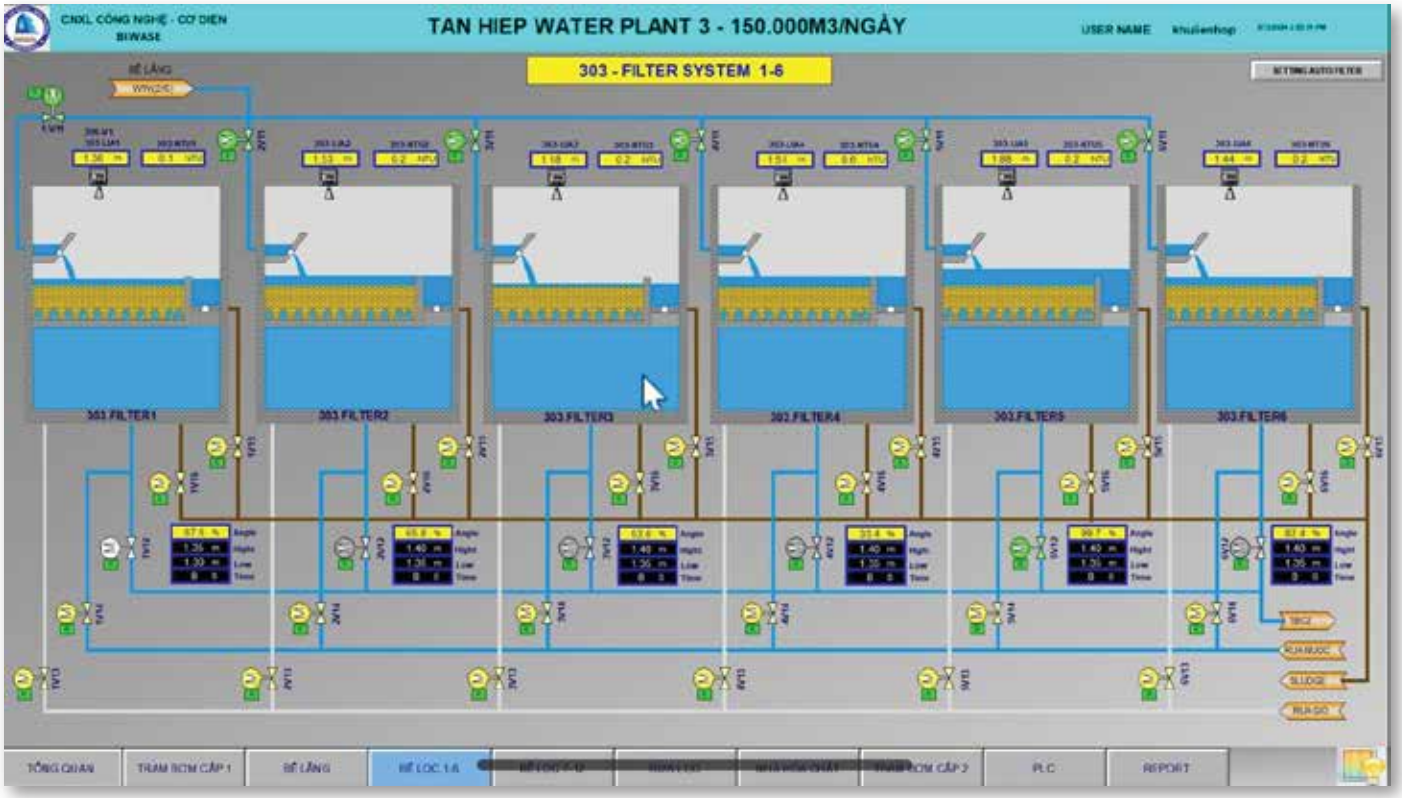
1. Save electricity through an operation management system and apply appropriate technologies

1.1. Managing filter tanks

Technology

Based on experimental conditions and results, BIWASE implements reasonable filtration rinsing mode settings to save as much energy as possible while ensuring the water quality in the filter tank. Filtration is the final stage to remove deposits and decide the quality of treated water during operation, so operators and laboratory teams always strictly control this process. The company has used equipment with high efficiency, low energy consumption, timely repair, high quality management through the SCADA system, in which variable cascade technology is the mainstay.

Ecology



Filter tank managed via SCADA

Energy management

1. Save electricity through operation management system and apply appropriate technologies

1.2. Managing biological treatment technology

Technology

The SBR aerobic biological system is designed for automatic control through probes and control software, which ensures simple operation. The system is both accurate, flexible, energy-saving and meets the set technology requirements.

At the liquid waste treatment plant with a capacity of 960m3/day, the C-Tech measurement and control system helps operators understand the oxygen demand of the system, thereby deciding the level of operation of the blowers to save electricity costs for the treatment process while ensuring efficiency.

Ecology

1.3 Wastewater pumping technology for wastewater treatment plant management and energy

Technology

The specialized pump system that pumps wastewater to the settling tank used by BIWASE has a good working performance, low power consumption and long service life. The wastewater pump operates fully automatically according to the water level difference of the storage tanks.

Specialized pumping system pumps wastewater to the settling tank

Energy management

2. Reduce rate of non-renewable electricity use

2.1. Reuse heat to generate energy for self-consumption in operating at waste treatment plant

Technology **Safety**

BIWASE is implementing many projects to regenerate energy in the operation of waste power plants. This contributes to environmental protection (reducing the amount of landfill), saving costs and improving operational efficiency of the plant.

In order to regenerate energy in the operation of waste power plant, BIWASE is currently operating the "Project to invest in more industrial waste incinerators in Nam Binh Duong Solid Waste Treatment Complex", in which:

BIWASE is operating an incinerator with a capacity of 8,400 kg/h that captures heat from waste incineration to generate electricity for the Complex.

BIWASE is installing an additional heat recovery system from 2 existing waste incinerators with a capacity of 4,200 kg/hour/incinerator to generate electricity with a capacity of 4,600KW.
For new investment items, BIWASE is investing in installing 1 hazardous waste incinerator with a capacity of 5,000 kg/h with higher treatment capacity and applying fully automated technology compared to 2 incinerators with 1700kg/hour, while using heat generated during incineration to supply the boiler to generate electricity for the Complex.

Ecology

Incineration capacity 8,400kg/h

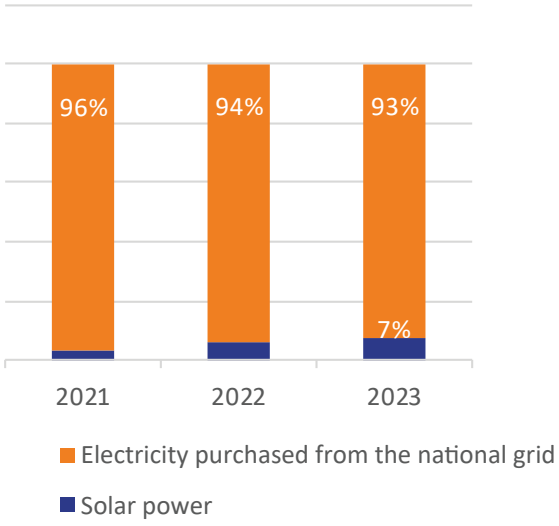
Energy management

2. Reduce rate of non-renewable electricity use

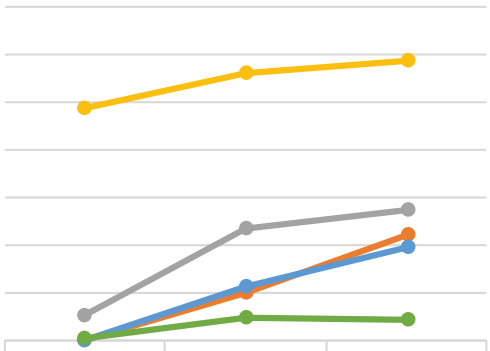
2.2. Invest in operating solar power systems at water supply plants

Among BIWASE's water supply branches, there are currently 5 water supply branches using solar power systems: Chon Thanh, Di An, Complex, Tan Uyen and Thu Dau Mot.

Rate of consumed electricity from the grid and solar power in 2021-2023



Solar power consumed in 2021-2023 (kWh)



	2021	2022	2023
Chon Thanh Branch	-	517.570	1.117.470
Di An Branch	263.367	1.186.082	1.376.401
Complex Branch	2.431.227	2.802.332	2.926.043
Tan Uyen Branch	-	562.643	975.158
Thu Dau Mot Branch	35.210	252.586	236.627

Note:

The chart above takes data from Water Supply Branches using Solar Energy

Technology **Safety**

The Complex has a top position in solar energy consumption in 2023 with nearly 3 million kWh, accounting for 13% of the branch's total full-year electricity consumption. Meanwhile, Di An branch takes second rank with total solar power use reaching nearly 1.4 million kWh, equivalent to 5.5% of total electricity consumption. For Chon Thanh branch, the solar power system installed and upgraded from mid-2022 is currently operating with a capacity of 700KVA, replacing more than 21% of electricity consumption from the national grid. Tan Uyen branch uses solar energy to replace 29% of electricity consumed from the national grid. Both branches started consuming solar energy from 2022 and already consume about 1 million kWh in 2023. Thu Dau Mot branch, after installing a solar power system from the end of 2021 with an efficiency of 200 kWh, has replaced 9% of electricity consumed from the national grid into solar power in 2023.

Ecology

Energy management

2.2. Invest in operating solar power systems at water supply plants (continued)

Technology **Safety**

Regarding improvement activities, in order to upgrade the amount of solar power in 2023, BIWELCO Company has carried out maintenance, system maintenance and trained staffs in charge according to occupational safety and health standards for Thu Dau Mot branch. At the same time, it also regularly cleans anti-fouling on energy panels to ensure the operating efficiency of solar power system.

Ecology

These solar panels are installed on the roof of the water treatment area of the clean water supply plant

These solar panels are installed on the roof of the water treatment area of the clean water supply plant

Energy management

3. BIWELCO – BIWASE's extension arm in the field of renewable electricity

Established in 2006 under the name of M&E Technology Construction Branch, BIWELCO Joint Stock Company is currently a subsidiary of BIWASE Group, operating in 3 fields: Technical – Mechanical Infrastructure Construction, Civil & Industrial Construction and Electricity. In recent years, BIWELCO has been investing in the field of Renewable Electricity, focusing mainly on the energy industry, including solar power and waste power.

The company is currently implementing the design and construction of automatic electrical systems such as dynamic cabinet systems, PLC control cabinets, SCADA operation management systems for water supply plants and power plants. Typical projects implemented by BIWELCO include: Nam Tan Uyen water plant with a capacity of 50,000m3/day and night under construction, domestic wastewater system of Binh Duong new city with a system of 7 lifting pump stations, or SCADA system at Di An wastewater plant. In addition, typical contracts of BIWELCO in 2023 can be mentioned as: contract for underground construction of 22kV medium-voltage line of Flower Garden of Binh Duong Cemetery, contract for construction of 2000KVA substation for Compote factory, or Dinh Hoa Wastewater pump station DHXL/01.

SCADA Department controls the 5MW power generation incinerator

Emission Management

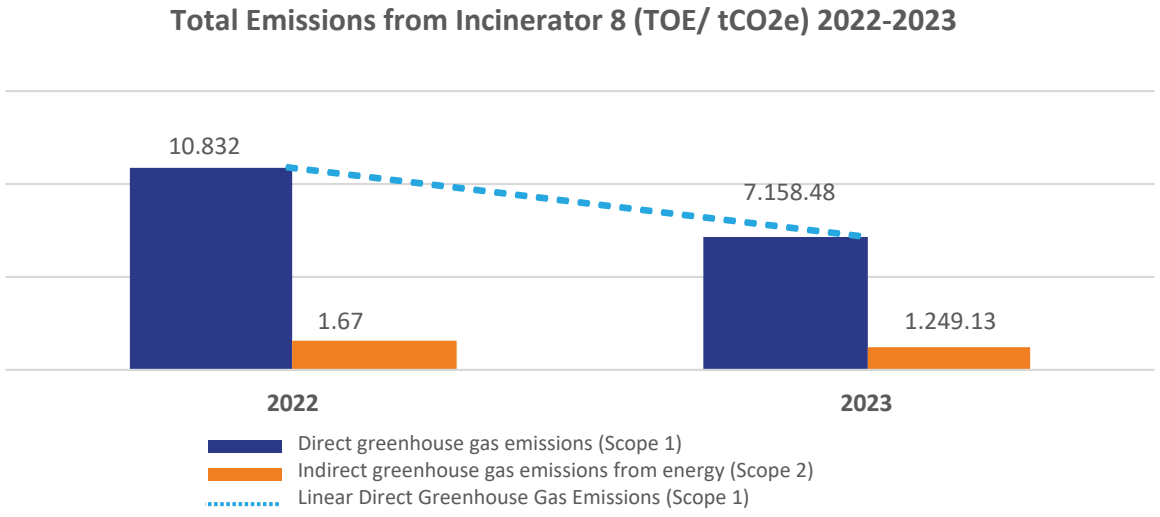
BIWASE is currently on the list of enterprises that need to carry out greenhouse gas ("GHG") inventory reports from the end of 2023 according to regulations of the Government of Vietnam. The company has developed guidelines on its greenhouse gas inventory process, which it expects to approve and issue for application next year.

1. Policy development and implementation of greenhouse gas inventories at facilities

1. Policy development and implementation of greenhouse gas inventories at facilities
Scope of application: Implement Scope 1 and Scope 2 Base Greenhouse Gas Inventory Reports.
Subjects of application include the facilities mentioned in Appendix I – Circular No. 01/2022/TT-BTNMT of the Ministry of Natural Resources and Environment and at the request of international credit institutions, including:

+ Waste treatment branch;
+ Thu Dau Mot Wastewater Branch;
+ Thuan An Wastewater Branch;
+ Di An Wastewater Branch;
+ Complex Water Supply Branch;
+ Di An Water Supply Branch;
+ Tan Uyen Water Supply Branch.

BIWASE has sent a number of core personnel to participate in training courses on GHG calculation and inventory this year (for more information, refer to section 5.3 of this report).
BIWASE has also piloted the implementation of GHG measurement at the incinerator with a capacity of 8,400 kg/hour (200 tons/day) of the waste treatment branch. The obtained results show that rate of greenhouse gas emissions of this incinerator in 2023 decrease by 33.91% compared to 2022:



MONITORING RESULTS OF 8,400 KG/HOUR INCINERATOR EMISSIONS IN 2023

No.	Target	Unit	Results in 2023			
			Quarter 1	Quarter 2	Quarter 3	Quarter 4
1	DUST	mg/Nm^3	10.93	9.97	14.09	17.33
2	NOx	mg/Nm^3	55.01	37.92	49.97	79.28
3	SO2	mg/Nm^3	11.85	1.57	1.02	0.58

Emission Management

2. Manage emissions from power generation to reduce greenhouse gas generated during production

Safety

Understanding that backup generators are one of the sources of emissions, BIWASE's factories only limit the use of 2 generators in the event of a temporary power outage, so the exhaust gas flow from generators generated is negligible and remains at the permissible threshold based on the Technical Regulations on Industrial Emissions.

In addition, in order to limit the impact of emissions, BIWASE has implemented methods to collect, manage and treat emissions generated including paving walkways, planting trees, requiring vehicles to slow down, shut down engines when necessary to limit dust and improve air quality in the factory. Thanks to these control options, the generated emissions (out of waste treatment process) are recorded as negligible.

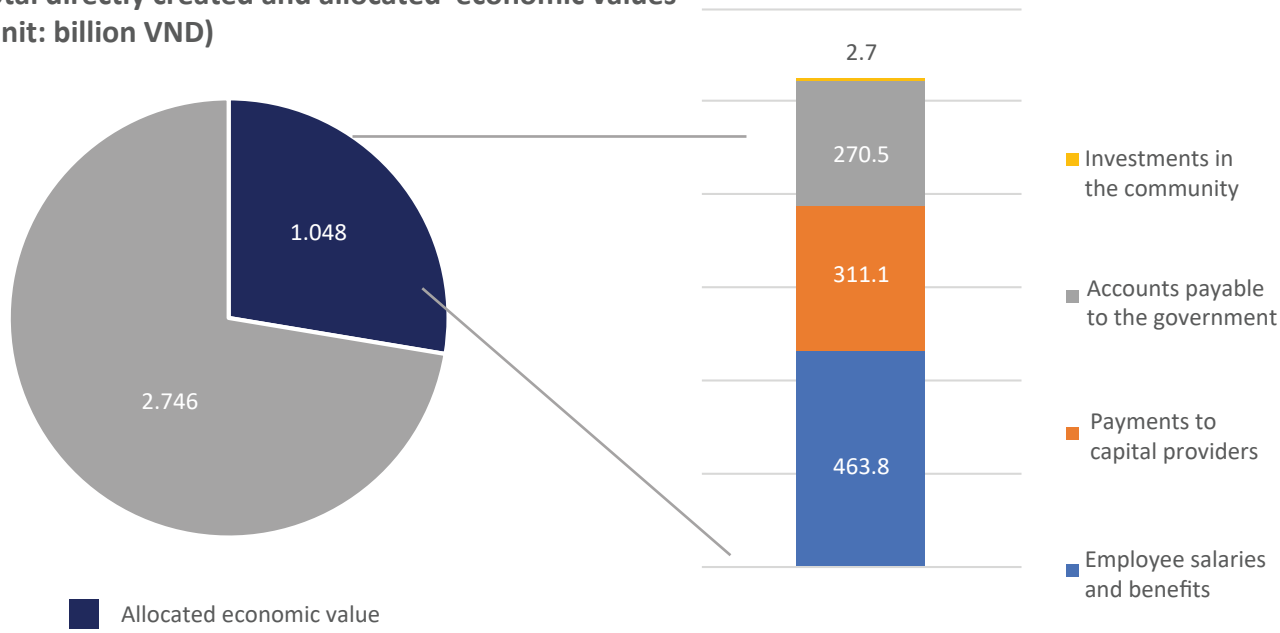
Ecology

Ammonia gas treatment system generated during leachate treatment

Bag filter and exhaust gas treatment

Efficiency of economic activities

Total directly created and allocated economic values (Unit: billion VND)



Note: The charts above take data from Water Supply, Wastewater and Waste Branche

Safety

The chart above shows how the Company allocates economic value to its stakeholders, in which:

Directly created economic value : Total revenue of the business for the year.

Allocated economic value: Rate of economic value is used to pay stakeholders such as employees, capital providers, governments and communities.

In 2023, BIWASE has allocated nearly 28% of the direct economic value generated to stakeholders. In which, salaries and benefits of employees accounted for the largest proportion, equivalent to 44.3%.

Efficiency of economic activities

Infrastructure projects and investments for the year

Safety

Total disbursement value in 2023 will reach 370 billion VND, mainly in projects such as: BIWASE's Project to improve water supply capacity of water plants, upgrade and renovate Dat Cuoc Booster Station. In particular, BIWASE highly focused on putting the phase 4 compost plant, capacity of 840 tons/day into exploitation and use, bringing the total capacity of waste treatment into compost up to 2,520 tons/day and ending hygienic landfill. In addition, the investment project of an incinerator with capacity of 8,400 kg/hour is also self-constructed and completed by the waste treatment branch, officially operating the incinerator project combining safe and stable power generation with a power generation capacity of 5MW. In 2023, in general, projects will be implemented and disbursed on schedule and the works will be effective as soon as they are put into use.

Ecology

Input garbage receiving system of organic fertilizer production line

Input garbage receiving system of organic fertilizer production line

CHAPTER 6

BUILD A GREEN GOVERNANCE PLATFORM

Structure of the Sustainable Development Committee

Risk management and control systems

Conflict of interest

Anti-corruption

Structure of the Sustainable Development Committee

Safety

Taking sustainability as a guideline for BIWASE's business foundation, the Sustainable Development Committee ("Sustainable Development") has been established in 2023 to act as a specialized unit, with the function of advising and recommending to BIWASE's Board of Directors on strategies, plans and direct direction, carrying out tasks related to the sustainable development strategy and realize the set goals.

The Sustainable Development Committee operates under the leadership of the Head: Mr. Tran Chien Cong (Vice Chairman of the Board of Directors of BIWASE). The Sustainable Development Committee plays an important role in advising the Board of Directors on the routes to transform Environmental-Social-Governance practices at the Company, consult stakeholders,

Ecology

No.	Department	Roles and responsibilities
1	SUSTAINABLE DEVELOPMENT COMMITTEE	- Develop and submit sustainable development goals and action plans to the Board of Directors. - Share strategies, goals and plans for sustainable development throughout the Company. Implement and realize the sustainable development plans according to the orientation of the General Director and Board of Directors. - Advise the Board of Directors on environment-related issues such as: + Efficiency of economic activities + Indirect economic impacts + Anti-corruption
2	SAFETY - ENVIRONMENT - SOCIETY TEAM	Advise the Board of Directors on environment-related issues such as: + Environmental impact management + Water resources management + Water supply network management + Wastewater management + Waste management + Material management + Energy management + Greenhouse gas generation + Biodiversity + Compliance with environmental regulations + Occupational safety and health + Diversity and equality + Training and education + Welfare policy for employees + Anti-discrimination + Sustainable supply chain + Safety and health of stakeholders + Social and community activities + Respond to emergencies and natural disasters

Structure of the Sustainable Development Committee

In 2023, the Safety – Environment – Society Team has conducted 9 meetings to implement and coordinate with departments to comply with BIWASE regulations.
Meeting details are as follows:

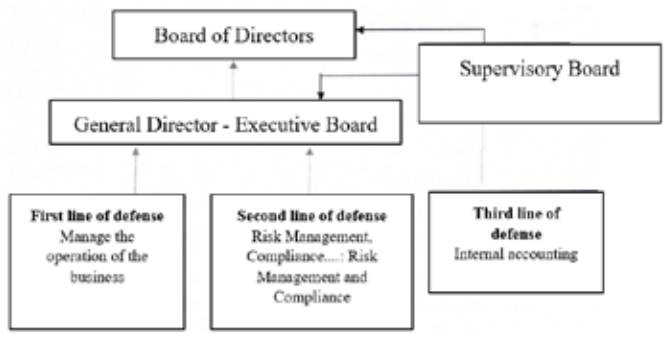
No.	Date	Content	Meeting results
1	13/04/2023	Close the timeline for completion of CAPs in the Company-level Corrective Action Plan	Agreed CAP completion time
2	14/04/2023	Adjust Company-level Corrective Action Plan items	Completed
3	26/04/2023	Overcome Biwase's Environmental and Social Issues Proposals	Completed remediation report
4	08/08/2023	Discuss (1) Cap #2 (removal of Human Rights policy) (2) Cap #17 (Internal Incident and Accident Reporting Guidance and Training) (3) Review the progress of pending CAPs (4) ADB proposes biweekly meetings between ADB/Ibis/Biwase to accelerate the progress of CAP items after August 8, 2023.	Already knew contents of work
5	22/08/2023	Review contents after ADB comments on items	Edited according to suggestions
6	24/08/2023	Present 11 items: Risks after Mr. Hoa's field trip, ADB has recorded at the Waste Treatment Branch	Completed 11 items
7	15/09/2023	Discuss completed, incomplete items, and new findings	Completed on time
8	06/11/2023	Fix the calculation and answer questions	Revised calculation formula and questions related to the formula are resolved.
9	23/11/2023	Communicate the progress of performed and unresolved action packs	Finalize the content to be reported and the date of submission

Risk management and control systems

Safety

At BIWASE, we recognize the benefits of good risk management that will help the system operate better, limit the impact of bad outcomes, and build trust from investors and other key stakeholders.

Risk Management Regulation (19/QD-HDQT) is promulgated, which applies a three-line defense model to ensure a clear separation of functions and tasks of each unit, in order to increase the sense of responsibility of the whole company in the work of identifying, assessing, monitoring and controlling risks as follows:



Model of 3 lines of defense at BIWASE

Risk Management activities at BIWASE: In 2023, the Supervisory Board has been closely monitoring to ensure effective risk management and timely preventive measures, in the context that the water supply and drainage and waste treatment industry is an area that requires special attention to safety.

Some of the material risks identified by BIWASE in 2023 and control measures:

No.	Risk	Control measures
1	Prestige, reputation, brand risk	Leaders play a key role in building an appropriate corporate culture and supporting business strategies in each phase; and sustained coordination through the behavior of all BIWASE's staffs
2	Strategic risk	The Board of Directors is responsible for developing a coherent strategy. The supervision of the strategic operation must be carried out regularly and throughout by the Board of Directors

Risk management and control systems

No.	Risk	Control measures
3	System risk	• BIWASE provides appropriate response measures for all situations and proactively contributes to the development of mechanisms and policies to be promulgated and coordinated with state agencies.
4	Human resource risk	• The Board of Directors advocates periodically strengthening training, improving management capacity, regularly updating technology. • The Human Resources Department periodically reviews and updates policies for employees to ensure a working environment that helps increase the productivity of employees
5	Financial risk	• The Finance and Accounting Department regularly balances financial safety, periodically reviews and updates policies, regimes and regulations to ensure that it always complies with laws and regulations of the Company.
6	Compliance and disclosure risks	• The Information Disclosure Committee continuously updates regulations on compliance activities and information disclosure to prevent possible risks between the company and related parties
7	Risks associated with the reporting system	• BIWASE uses data management software that ensures complete and timely reporting content. Enhance training to improve skills in using reporting software with professional departments to improve the quality and transparency of reporting content;
8	Investment risks	• The Board of Directors is responsible for evaluating each investment plan under the direction of the Board of Directors. In addition, allocate human resources with experience and knowledge suitable for the project and always consider financial security.
9	Material source risk	• Every year, branches are responsible for developing response scenarios and organizing drills for possible risk situations. Develop a reasonable procurement plan that complies with the company's strategic goals each year. Periodically reassess the quality of inventory and propose appropriate handling plans for each case
10	Operational risk	• Water quality management: Branches strictly follow water quality management procedures and periodically control • Water loss: Branches follow a quick and timely troubleshooting process • Technology: Branches regularly update advanced technology techniques under the direction of leadership. Periodically maintain and maintain according to regulations. • Occupational safety: BIWASE team commits to comply with updated occupational safety procedures according to standards • Production quality: Regularly improve working regulations associated with the emulation of employees to improve the sense of responsibility of each department

2024 operational plan of the Supervisory Board and risk management department: Make plans to coordinate with internal audit, implement inspection programs with the aim of controlling operations at branches and subsidiaries to ensure more efficient operations, partly bringing added value to stakeholders and limiting operational risks for the company.

Anti-corruption

Safety

The Board of Directors always focuses on anti-corruption activities and ensuring fairness in the working environment. Throughout the Company's operating system, it always ensures compliance with the provisions of the law as well as basic ethical principles in order to create integrity in activities. BIWASE always fairly and openly implements management regulations, internal governance and compliance controls.

1. Violation report mechanism:

If there is any suspicion, or observation of, potential violations of the Corporate Anti-Corruption Code ("Code") in the Company's operations or in the Company's value chain, individuals are encouraged to report concerns immediately through BIWASE's Internal Complaints Mechanism. Currently, BIWASE has a sufficiently reliable control network led by core staffs.

2. Mechanism for handling violations:

Persons committing acts of corruption or bribery mentioned in the Code, depending on the nature and seriousness of their violations, must be disciplined, sanctioned according to enterprise regulations or examined for penal liability in accordance with law.

Persons who commit corrupt acts but actively declare before being detected, actively cooperate with enterprises to contribute to limiting damages, voluntarily surrendering corrupt assets, overcoming consequences of corrupt acts shall be considered for reduction of disciplinary forms, mitigation of penal liability, exemption from penalties or exemption from criminal liability as prescribed by law.
In case a person committing corrupt acts who is disciplined is the head or deputy of the head of an organization or enterprise unit, the disciplinary form shall be considered.

During the 2023 report period, no documented cases of corruption or handling of corruption in the business.

Anti-corruption

3. How to communicate and raise awareness about anti-corruption among employees and stakeholders:

Effective communications for the Code against Corporate Corruption include newsletters, training materials, seminars, briefings, websites and emails, as well as the contracting process for contractors, suppliers and other business partners.

In 2023, BIWASE has organized 01 internal training class - guiding the Code on Anti-Corruption in Enterprises - with the participation of 81 key personnel and related personnel of the Corporation and its affiliated units.

BIWASE, through its Human Resources and Administrative Department, ensures that this Code of Conduct is communicated in an understandable manner and in appropriate language to all stakeholders.

In 2024, BWE will organize training courses and updates for all employees.

Mechanism of complaints and denunciations

In 2023, BIWASE's Board of Directors has issued a complaint and denunciation resolution policy to receive, resolve and respond promptly and fully to information and complaints from employees across the Company and external partners, through Communication Channels such as: 24/24 Customer Care Department and Information Receiving System of the People's Council of Binh Duong province according to the following 06-step implementation process:

Step	Contents	Responsible by
S.1	Summarize comments and complaints of Officers and External Partners to record in the monitoring book	Full-time staffs at the branch Information Reception Staff
S.2	Consider resolving all complaints;	Head of Safety-Environment-Society Committee/ Head of Budget – Administration Department at the Branch
S.3	Find the cause by checking, verifying the incident and reporting to immediate superiors	Related officers/staffs
S.4	Resolve related complaints	Head of Safety-Environment-Society Committee/ Head of Budget – Administration Department at the Branch Branch Director
S.5	Respond and answer complaint settlement results to the complainant	Safety-Environment-Society Committee Head of Budget – Administration Department at the Corporation
S.6	Report and keep records in accordance with the Company's record keeping and data storage procedures	Safety-Environment-Society Committee Head of Budget – Administration Department at the Corporation

Safety

The company always tries to improve the efficiency of the process of receiving, answering and processing feedback from consumers. Comments from communication channels will be synthesized and transmitted to the Head of Safety-Environment-Society Committee or the Head of Human Resources – Administration Department at the Corporation to review, verify and discuss with stakeholders to give directions and solve problems, apply according to BIWASE's complaint mechanism, in the spirit of consensual and reasonable conciliation.

CHAPTER 7

ENSURE THE POSITIVE WORKING ENVIRONMENT FOR EMPLOYEES

- Occupational health and safety
- Equality, respect and diversity
- Training and education
- Employee welfare policy
- Commitment on use of employees
- Take care of employees' mental health through physical activities

Take care of employees' mental health through physical activities

Safety

As a company dealing in the field of water supply, waste treatment and environmental services, BIWASE faces risks such as exposure to toxic chemicals, the risk of occupational accidents and the effects of a particularly harsh working environment.

At BIWASE, in addition to ensuring adequate equipment suitable for occupation (gloves, boots, masks, hard plastic hats, glasses ...), the company also pays special attention to the dissemination for employees in the company's office and all branches about Safety Management Regulation, environment and society through briefings, which is listed at the Branch Information Tables. At the same time, the company regularly holds drills to respond to incidents such as:

- Fire protection
- Chlorine gas leak
- Chemical explosion
- Food poisoning
- Labor accidents, victims of electric shock
-

Training programs and attendance in 2023:

Professional training in fire protection	174 people
Training on transportation - operation and troubleshooting of chlorine	91 people
Instructions on how to prevent internal accidents	18 people
Occupational safety and health	2,221 people
Professional protection of agencies and enterprises	62 people
Training course on employee health care and occupational disease prevention in Binh Duong province	2 people

In 2023, BIWASE will improve efficiency and risk management through courses at branches on:
ISO 14001: Set of standards relating to Environmental Management
ISO 45001: Set of standards relating to Occupational Safety and Health Management

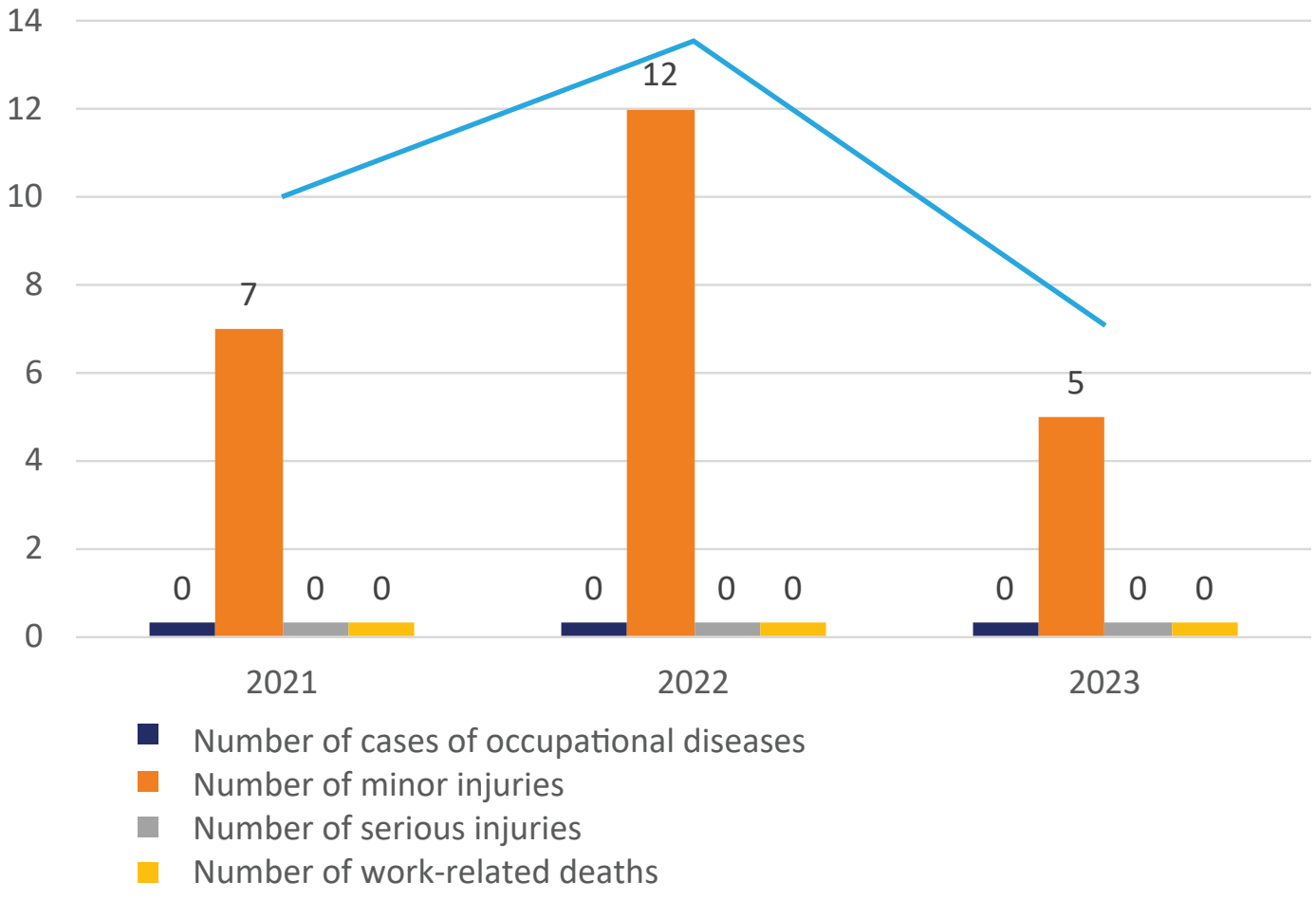
ISO System Training - Internal Audit Methods and Skills	83 people
ISO System Training - Leadership Review and Evaluation	62 people
ISO Occupational Safety, Health and Safety Management	59 people

Occupational health and safety

Safety

The decrease in the number of minor injury accidents compared to the same period last year is a testament to the fact that the Company has been effectively implementing measures to ensure occupational safety and health for employees.

Statistics of occupational accidents in 2021 - 2023



Equality, respect and diversity

Safety

The company has always facilitated increased diversity and decent work locally:
In the past year, the Company has implemented a program for 31 students studying at Thu Dau Mot University – Binh Duong to have the opportunity to practice and graduate at affiliated branches according to majors suitable to the Company's industry.

Equality in the workplace – Friendly working environment – Career advancement opportunities are the core values applied by BIWASE in the Internal Rules, Collective Labor Agreement and Company Regulations. The Gender Equality Policy is implemented by the company throughout the processes of recruitment, training, salary, reward, promotion to other benefits that are divided equally, regardless of men or women.
In addition, the company also periodically communicates through briefings and posts information on policies to protect the rights of Equality – Respect – Diversity, including:

- Code of Ethics and Conduct of corporate culture.
- Code of Conduct on Sexual Harassment in the Workplace.
- Gender equality policy.
- Complaint mechanism and internal complaint resolution.

BIWASE employees have joined hands to say no to the culture of discrimination and have not recorded any complaints from employees on this topic so far.

Leaders of Complex Water Supply Branch presented gifts to congratulate female workers on Vietnamese Women's Day, October 20

Training and education

Technology

Safety

With the motto of developing Science – Safety – Ecology, the training and improvement of human resource quality are always focused by BIWASE's Board of Directors, because good personnel are the key to the success of the Enterprise.

To accomplish the above task, the company has established BIWASE Vocational Training and Human Resource Improvement Center to coordinate with prestigious universities inside and outside the province to open work-study training courses in the field of water supply and drainage, environment, promptly meeting the development needs of the company.

In addition, the company actively plans to send personnel to participate in annual advanced training courses to help employees grasp new trends and learn new skills to respond to the current fast-growing and volatile environment.

Ecology

Training Plan in 2023:

In 2023, 3,148 employees are trained according to the planned list, courses the Company has sent personnel to participate in or organized by the Vocational Training Center to improve BIWASE human resources:

NO.	TRAINING CONTENTS	PARTICIPANTS	SYLLABUS
01	Topic: "Handbook for construction of water branch pipes / construction of water supply pipes"	- Branch pipe construction and installation staff. Thu Dau Mot Water Supply Branch	Publisher handbooks
02	Topic: "Adding photography to water meter index recording software"	Heads of water supply branches	Compiled by IT team
03	Topic: "Key Personnel – Business Administration"	- Sales and Sales Management Officer/Staff	Compiled by Chairman of the Board of Directors
05	Topic: "Comments on 6 processes – Water supply customer service"	Director + Sales Manager of water supply branches Head of Water Supply and Sewerage Department, Asset Management, Investment Payment, Company Council	Loss prevention and customer service Investment payment
07	Topic: "Training on updating GIS network asset management"	- Gis network management staff of water supply and drainage branches. - Water supply and drainage and customer service staff	Ly Xuan Hoc Loss prevention and customer service
08	Legal document update class	Officers approved by the company to take exams and study	A&C Auditing and Consulting Company Limited
09	Environmental master class: "Entrance exam"	15 officers approved by the company to take exams and study	Opened by Ho Chi Minh City Institute of Natural Environment
10	Topic: "Comments on 2 processes – Water supply customer service"	Director + Sales Manager of water supply branches Head of Water Supply and Sewerage Department, Asset Management, Investment Payment, Company Council	Water supply and drainage department and customer service Investment payment
11	Topic: "Professional training on fire protection"	Company offices, water supply and drainage branches (Waste treatment officers will be trained separately)	Binh Duong Province Fire Protection Loss prevention and customer service Investment payment
12	Topic: "ISO administration construction guidance training" 14001 and 45001 and Identification	7 ISO departments of water supply branch, Thu Dau Mot branch, THC, T.Uyen, Bau Bang, Chon Thanh, service partner, Tan Uyen and waste treatment	BSI JSC

Training and education

Training Plan in 2023 (continued):

No.	TRAINING CONTENTS	PARTICIPANTS	SYLLABUS
13	Topic: "Operations of protection and use of support tools"	Security guards of the company, branches and departments under the company.	By the police of Binh Duong province
14	Topic: "How to calculate and report - Greenhouse effect"	Full-time staffs of Safety – Environment – Society Committee of the company and its branches	DA ADB
15	Rehearsal: "Transport/Operation and Troubleshooting of Chlorine"	- At the water supply branch – Complex. - Invitees: Company Safety Technology Department, Branches, Water Quality Management Center, Investment Payment, Loss Prevention & Customer Service, Neighborhood Representative.	Safety Technology Committee– Branch Chlorine selling unit
16	Topics: "Training to guide the development of ISO Processes" 14.001 and 45.001 and Awareness training	7 ISO departments of water supply branch, Thu Dau Mot branch, THC, T.Uyen, Bau Bang, Chon Thanh, service partner, Tan Uyen and waste treatment	BSI
17	Meeting: "BC "19 cap" completion progress	Safety – Environment – Society Committee of the company	DA ADB
18	Topic: "Operation and troubleshooting of chlorine"	Production Officers/Employees, Subordinate Branches Full-time member of the Safety – Environment – Society Committee of the company	Bien Hoa Chemicals Joint Stock Company
19	Topic: "Non-Invasive Ultrasonic Liquid Measuring Device Introduction"	Employees: Loss Prevention & Customer Service, Investment Payment, Deputy Director & Electrical staffs, Sales, Branch Loss Prevention	Huynh Bang Co., Ltd
20	Topic: "Guidelines on how to b/c internal accidents" (Implementing the policy of forced labor & child accidents"	Safety – Environment – Society Committee of the company and staffs of the Safety – Environment – Society Committee of branches	DA ADB
21	Workshop "Internal audit methods and skills" according to ISO 14001 and 45.001	Safety – Environment – Society Committee of the company Head of Safety – Environment – Society Committee of branches	BSI
22	Internal First Aid Training Class	Safety – Environment – Society Committee of Biwelco Electrical Installation Joint Stock Company, Chon Thanh Water Supply Branch, Di An, Complex, Waste Treatment Branch	My Phuoc Hospital Joint Stock Company

Training and education

Training Plan in 2023 (continued):

No.	TRAINING CONTENT	OBJECTIVES FOR TRAINING	GIÁO TRÌNH
23	Lớp sơ cấp "Chống thất thoát nước sạch"	Technical staff	Investment payment and loss prevention and customer service of the company
24	Lớp sơ cấp "Quản lý mạng lưới cấp nước"	Technical staff	
25	Chuyên đề "Xem xét, đánh giá của Lãnh đạo" theo ISO 14.001 và 45.001	Safety – Environment – Social Department of the company Head of Department + in charge of Safety – Environment – Social Department of the branch	Cty CP BSI
26	Chuyên đề "Quản lý AT-SK-MT" theo ISO 14.001 và 45.001	Safety – Environment – Social Department of the company Head of Department + in charge of Safety – Environment – Social Department of the company	Cty CP BSI
27	Lớp sơ cấp "Quản lý MLCN&DVKH"	Staff managing regional water supply networks	Company Handbook
28	Training "Volume Measurement and Estimation of Construction Program"	Technical staff/staff of branches and member companies	President of Ho Chi Minh City College of Construction HCM
29	OSH Training "Group 4"	Employees, employees throughout the Company	Investment payment
30	Anti-corruption class in enterprises	Employees, employees throughout the Company	Investment payment
31	Training course on health care for workers, prevention and control of occupational diseases in Binh Duong province	Member of the Safety – Environment – Social Committee of the company	Centers for Disease Control
32	Training and guidance on the preparation of greenhouse gas inventory reports at grassroots level according to Decree No. 06/2022/ND - CP	Safety – Environment – Social Department of the company, Thu Dau Mot CNNT, Complex Industrial Zone, Di An Industrial Park, Waste Treatment Branch	Center for Community Initiatives and Start-up Support in Binh Duong Province

The total BIWASE budget for training programs in 2023 is up to VND 2,345 billion, of which:

- VND 47.5 million spent on internal training programs
- VND 2,297 billion is used for training programs organized by third parties

Training and education

Other exchange and coordination training

Technology

- In addition, BIWASE coordinates with schools, agencies and units to organize study tours to exchange and improve knowledge between staff and specialized experts/doctors. Specifically, in 2023, the company has accompanied schools to organize the following study tours:
- Western University of Civil Engineering: 20 students;
- University of Agriculture and Forestry – HCMC: 133 students and 08 lecturers;
- Can Tho University: 237 students and 05 lecturers;
- University of Science and Technology – Ho Chi Minh City: 05 lecturers and 06 foreign experts;
- Thu Dau Mot University – Binh Duong: 48 students;
- Open University: 20 students;
- University of Technology and Education – HCMC: 40 students;
- University of Industry – HCMC: 43 students;
- Nguyen Tat Thanh University: 30 students.

Ecology

Career orientation program: Introduction of Water Supply and Sewerage to high school students

Training and education

Construction Practice Certificate Examination

Corporate Governance Training Course Organized by ADB

Graduation ceremony of College of Water Supply and Sewerage training on request(order) enterprises

School Education Program: Clean Water and Environmental Protection

Welfare policy for employees

The leadership of BIWASE maintains the tradition of "Proactive, Creative, and Together for Victory!", always taking good care of the material and spiritual life of the workers.

The company always emphasizes growth in salaries and attractive benefits for employees, especially for individuals who have dedicated many years to BIWASE.

- As of December 31, 2023, BIWASE is managing 1074 regular employees (including 67 newly recruited personnel in 2023) with an average monthly salary of approximately 18,000,000 VND. This figure has increased by more than 5% compared to the same period in 2022.

Welfare policy for employees:

Safety

Policy for female employees:

- Maternity leave policy in compliance with social insurance regulations:
- 1-month paid leave before childbirth. In the case of giving birth to twins or more, the leave is extended by 1 month for each additional child after the second child.

100% of the maternity leave employees return to work at the company

Health & medical insurance:

- Social insurance
- Health insurance
- Unemployment insurance
- Accident insurance 24/24
- Periodic medical examination

Welfare of life:

- Visit for subjects are wounded soldiers, family policy on July 27 and Lunar New Year,... very year.
- Unexpectedly difficult allowance for workers when experiencing a risk incident in the following cases:
- Disaster, fire.
- Workers are seriously ill.
- Workers who have suffered labor accidents and traffic accidents are 31% or more.
- Depending on the severity, the company has a subsidy of VND 3,000,000 to vnd 5,000,000 or more.
- Retirement: BIWASE has a policy to support individual retirement a funding to stabilize life based on the number of years of dedication.
- Termination allowance: BIWASE pays the termination allowance to employees who comply with the law. As noted in 2023, the company paid VND 287,821,250 million for the cost of the resignation allowance for 08 resigned workers (complying with the Labor Code 45/2019/QH14).
- Social housing for employees ("employees"): the company has built a social housing project consisting of 216 residential apartments, kindergartens and green parks in Thuan An City, Binh Duong Province with the desire to create conditions for employees "an Lac Nghiep". By 2023, the project has met the housing needs of 32 employees and employees at the company.

Welfare policy for employees

Welfare regime for Labor:

Safety

Subsidies and salaries:

+ Allowance for personnel working in heavy, toxic environment 12 months in 2023 is 3,533,377,100 VND
+ Individual reward according to the Company board of Directors regulations in 2023:
+ 82 individuals who have achieved the title of excellent completion of the assigned task
+ 888 individuals complete the assigned tasks well

Blood donation in 2023:

- 1st time: 26/04/2023: 136 units of blood

- 2nd: 12/10/2023: 199 units of blood

Commitment to employers

Safe

At BIWASE, we are committed to complying with current national laws and international labour standards. The company periodically considers and adapts its business strategies and processes, which can lead to restrictions on internal reorganization or restructuring and can lead to job loss. BIWASE is committed to ensuring that all cuts (if any) will be implemented fairly and transparently, based on the personnel cuts policy issued, with the desire that the personnel cuts are always public and transparent, not used for the purpose of lowering any individual. Based on a 2023 business situation assessment and a 2024 prediction, BIWASE ensures there are no plans to cut personnel at the company.

> ***"Human Rights Protection at Biwase is seen as a core value in operating the company, which includes no forced labor and child labor."***

Biwase undertakes to prohibit and condemn in any form the use of child labor, or forced labor in the activities of the company.

The strategy for preventing child labor is also implemented by the company with a strict mechanism in the recruitment process directly with the company and stakeholders. When there is doubt about the age of the employee will be reported to the HR department, where it is possible to check and verify any employee identification documents (including contractor employees) and/ or conduct a live interview (e.g. questions such as where their documents are issued, the place of birth of their father or date of birth) and collate information with their identification papers. In the event that the company realizes that anyone under the age of 18 is working at any location of the company, Biwase's Department of Management and personnel will take steps based on the policy of non-use of child labor, forced labor in the Corporation.

At this point, BIWASE has not documented any wrongdoing related to these commitments.

Take care of the mental health of workers with sports activities

S a f e

Mental health care for employees plays an important role in retaining talent and indirectly brings tremendous benefits to the business. In the current turbulent situation, uncertainty about the state of health, work and the future is causing employees to feel high stress. Understanding that, BIWASE 2023 has been promoting mental health programs for employees expressed through the following notes in sports activities:

18 national and international teams compete in the XIII BIWASE International Women's Cycling Tournament: This is a traditional annual sports tournament sponsored by BIWASE. The inaugural tournament on March 8, 2023 ended March 17, 2023 with 18 teams competing in 11 domestic and 7 international teams from Thailand, South Korea, Singapore, Malaysia, Taiwan, Kazashtank (2 teams). The track passes through beautiful roads, famous tourist cities such as Da Lat, Nha Trang, Phan Rang, Phan Thiet, Lagi, Vung Tau, Binh Duong.

Press conference announces XIII BIWASE International Women's Cycling Tournament

Lãnh đạo tỉnh Bình Dương, Ban tổ chức giải chúc mừng và chụp hình lưu niệm với 3 đội thứ hạng cao nhất giải

BIWASE won the First Team Award at the XIII Binh Duong International Women's bicycle Championships in 2023: 10 days of competition (from 8/3 to 17/3/2023) Binh Duong International Women's bicycle tournament 2023 Biwase Cup competition passes 10 races, 1,100 km through 8 provinces and cities: Binh Duong, Binh Phuoc, Dong Nai, Lam Dong, Khanh Hoa, Ninh Thuan, Binh Thuan, Ba Ria-Vung Tau. Overcoming strong rivals such as Loc Heaven Group, Thailand, Biwase women's team was honored to win the first team prize.

Biwase sports 2023 Cup four hung. Happy Spring 2023, in 2 days 17-18 February, Binh Duong Water - Environment Joint Stock Company held BIWASE 2023 gathered 4 participating units including Becamex, Canthowasco water supply(Canthowasco), Saigon Water Supply Corporation (Sawaco). Each unit competed in 2 divisions: Tennis competition Cup leader, Football Competition Cup four hung. The sport is not only an opportunity to compete, but also an opportunity to lead, employees of the water supply industry meet to exchange experiences, tighten solidarity, train health to succeed and win.

Participating units organized by Biwase

CHAPTER 8

SPREAD VALUE TO THE SOCIAL COMMUNITY

Sustainable supply chain

Safety and health stakeholders

Social and community activities

Sustainable supply chain

Safe

BIWASE takes an active stance against all forms of forced labor and will not tolerate any form of forced labor associated with its activities, nor will it accept products or services from recruiting providers or forced employers in any form based on the supplier selection assessment process specified in the service agreement.

The company oversees the implementation of these procedures, including requests for information relating to the implementation from the relevant contractors/ suppliers before signing contracts with the contractors/ suppliers periodically. If a partner refuses to cooperate with these measures or if violations relating to the commitments in the agreement are detected in any cooperation project, the company reserves the right to terminate the business relationship as a last resort.

In BIWASE's journey towards sustainable supply chains in recent years, the company has not recorded any cases of wrongdoing from its suppliers.

Xuan bien Phuong program supports relatives and soldiers of the border region

Coordinate with doctors General Hospital Binh Duong Province to provide medical treatment for relatives in the border area

Sustainable supply chain

Donate cows to relatives in Quang Binh flood disaster

Donate cows to the difficult relatives in Ben Tre

Construction of residential housing for students of Tan An Primary School No. 2, Van Ban District, Lao Cai Province

Donate cows to the difficult relatives in Ben Tre

Support Phu Tho Water Joint Stock Company - on water loss reduction techniques

Safety and health stakeholders

Safe

According to Mr. Nguyen Van Thien-chairman of BIWASE Board of directors: *"under any circumstances, BIWASE remains consistent with the mission of serving the community, creating society. Whatever the field, providing clean water for living, producing or collecting, disposing of and recycling waste, wastewater, BIWASE has high responsibility, striving to provide the best, high - quality and stable products and services, thereby bringing authentic values to customers and helping the community to develop."*

BIWASE is very well aware that water is food, is an essential source of life for people, and water enterprises are enterprises that hold the Life, Health and life of many people.

BIWASE is consistent that a successful business not only achieves the goal of maximizing profits and benefits for shareholders, but also brings sustainable values to the community, to the whole society.

Ecology

In recent years, BIWASE has stepped up customer development and increased connectivity to new districts such as BAU Bang, BAC Tan Uyen and rural areas in Binh Duong Province. By 2028, the unit will expand the network of water pipes to more in rural areas. Besides, with the desire to bring clean water to disadvantaged people, the company has implemented a program to support households with poor households issued by wards and communes - each household is supported 4m3 of clean water/month.

In 2023, BIWASE has expanded its foreign supply network in Binh Duong Province:
- JSC water supply Gia Tan (Dong Nai Province): capacity 40, 000m3/day and night.
- Chon Thanh water factory (Binh Phuoc Province): capacity 30,000m3 / day and night.
- BIWASE Long An Water Joint Stock Company: capacity 60,000m3 / day and night.

Chon Thanh water supply branch (Binh Phuoc Province)

Safety and health stakeholders

BIWASE Long An Water Joint Stock

JSC water supply Gia Tan

Safety and health stakeholders

Safe

Quality policy at BIWASE

"PRESTIGE-DYNAMIC - CREATIVITY - AUTONOMY
TO MEET THE BEST SERVICE AND SATISFY CUSTOMERS ' REQUIREMENTS"

- Ensure the full supply of resources to fulfill the above commitments
- The company always ensures the quality of service to customers is the best, listen to all opinions and have appropriate improvements to meet customer requirements
- Regularly organize the inspection and review of leaders to ensure the effective and always Improved Quality Management System ISO 9001-2015 and environment 14001: 2015 is built and applied to meet customer satisfaction is the highest
- Communicate to all employees of the company understand the importance of meeting the requirements of customers for the company's products and services so that everyone does well

In 2023:
BIWASE does not record any cases where the water supplied to the community of acute health violations.

Ecology

Social and community activities

Take sustainable development as a guide

BIWAS activities are geared towards Community Development, Social Development, and as the society grows it will also create leverage for the respective development business. This is also the motivation for collective workers, BIWASE leadership to implement a lot of community activities, meaningful social security programs with the desire to do useful things for society, share some misfortune, disadvantages of difficult lives. To this day, when referring to BIWASE is to refer to a green-clean-beautiful brand, to a unified, dynamic, creative group, always devoted themselves in production and business and always pioneered charitable activities rich in humanity.

In 2023, the company has spent a total of more than 2.7 billion VND on the following social and community programs:

On 14/01/2023 BIWASE implemented the program towards the border with the theme "BIWASE accompanies soldiers and people" in the border area of Binh Phuoc Province border posts. Phuoc Thien Commune People's committee, Hung Phuoc Commune People's Committee and at Don Phuoc Thien, Bien Phuoc Bu Dop-Bu Dop District-Binh Phuoc Province with 400 gifts; godfather company for 40 children orphans whose parents died from COVID 19 disease, water supply well drilling and concrete school grounds at Dak To Kan kindergarten Dak To Kan, Tu Mo Rong district, Kon Tum Province where water difficulties live, …

Social and community activities

Upgrade traffic routes in Ben Cat Town, funded by investment company: length 950m concrete chemistry.

Handover ceremony of water supply well drilling and concreting school grounds at Dak To Kan kindergarten Dak To Kan commune, Tu Mo Rong district, Kon Tum Province.

Social and community activities

BIWASE " bringing Tet to the border" is the traditional annual activity of Biwase with its member units (Thu Dau Mot water JSC, Chanh Phu Hoa DT-XD JSC).

Mr. Pham Thanh Hung-deputy general director of BIWASE (3rd from left) to give gifts, wishing Tet soldiers Hoang Dieu Border Guard station

BIWASE and local leaders give gifts to their border relatives

Before Tet arrives - Xuan, BIWASE leaders and member enterprises have prepared Tet gifts, coordinated the board of Directors of border posts in Binh Phuoc Province to visit, wish Tet soldiers who are day and night on the mission to protect the border of the Fatherland, build the border of peace and friendship; organize the delegation to present Tet gifts to people living in the border area. Tet gifts include cash and essential food, helping everyone have a joyful Tet,this sum. At the Phuoc Thien Border Guard Station (DAC Tangerine), the delegation gave 150 Gifts; Hoang Dieu border guard donated 150 Gifts; DAC EU border guard donated 50 gifts, DAC EU Border Guard donated 50 gifts to policy households, difficult households in the locality.

Transmit warmth to unhappy children: a sincere affection, stemming from the heart of the chairman of the board of Directors Nguyen Van Thien for orphans, missed in social protection centers – Department of Labour, Invalids and Social Affairs in Binh Duong Province.

Chairman of the Board of Directors Nguyen Van Thien (on the right) donated the packaging to the CNV staff and many gifts for the children are being raised at the Social Protection Center

Social and community activities

In the days of the New Year, Biwase company delegation went to the Social Protection Center of Thuan An City, Ben Cat Town to visit gifts of children with disadvantaged children, visit teachers to manage, nurture, education. The gift for teachers is the equivalent of 1 month salary for shopping Tet; presents to the children are milk, toys, Tet gifts... President BIWASE said: "the team of teachers, staff and students at social protection centers have quietly struggled to work in difficult conditions, need to be concerned, share and transmit warmth to orphans, children missed to be raised to become useful people""

Visit children with cancer: understanding the circumstances of parents from far away province to pack their children carrying serious diseases to Cancer Hospital in Ho Chi Minh City. Ho Chi Minh long-term treatment; sharing feelings with children not to have fun, welcome Tet with you but to go to the hospital for treatment; the board of Directors of Chanh Phu Hoa DT-XD Joint Stock Company has sent a delegation to bring Tet gifts to visit, encouraging parents who are raising children at the hospital. The children stayed in the hospital, welcomed Tet, the delegation met, wish Tet to give 20 gifts to children, each gift is 3.5 million cash. Receiving gifts and good New Year wishes, they all rejoice in their desire to get rid of the disease soon, return to their family.

BIWASE accompanies and supports disadvantaged children in Kon Tum Province. Mr. Nguyen Van Thien-chairman of the board of directors led the staff of BIWASE Corporation to visit and present gifts to parents and children of disadvantaged students at Dak To Kan kindergarten, Tu Mo Rong district, Kon Tum Province. In addition to the gifts for parents, the delegation also directly donates the school football field, artificial grass, water wells and treatment systems, ICs to help students with physical activity and clean water use.

Chairman of Biwase Board of Directors - Nguyen Van Thien visited and presented gifts at Dak To Kan kindergarten, Tu Mo Rong district, Kon Tum Province

Social and community activities

On 12/10, BIWASE Corporation's base unit coordinated the Hematology Center of Cho Ray Hospital, the Red Cross of Binh Duong Province organized the 39th volunteer blood donation Festival. Only in the morning, the leader, Youth Union, BIWASE workers donated 199 units of blood. Many people who have donated blood more than 10 times, are given valuable gifts with a badge. But most volunteers receive only the badge and"send back gifts to those in need". The branch also established the "living blood bank" which gathers rare blood type brothers ready to donate blood when requested. There have been many cases late at night or on the way to work that provincial hospitals, blood transfusion centers with critical people of rare blood type need urgent blood transfusion, brothers are ready to go to help immediately.

39th volunteer blood donation Festival, leader, Youth Union and BIWASE workers contribute 199 units of blood

Mr. Doan Huu Ngoc Thuong (3rd from right to) director of Chon Thanh water supply Branch at the launching ceremony of planting trees "Thank you for the Bac Ho forever."

The Youth Union of Chon Thanh water supply branch planted trees eternally in memory of Uncle Ho: Welcome to the 133rd anniversary of the birth of President Ho Chi Minh (19/5/1890-19/5/2023) and the Tet Festival planted trees "eternally in memory of Uncle Ho" in 2023 launched by Chon Thanh town people's committee. Morning 19/5 after the launch ceremony chaired by Secretary of Chon Thanh Le Hoang Lam and director of the Department of Agriculture and Rural Development Pham Thuy Lanh, the entire youth union of Chon Thanh water supply branch actively cooperated with the departments, unions and localities to plant 150 green trees in the area of urban residential and Commercial Services twin streams to create landscapes, increase the coverage of urban greenery. Tet tree cultivation eternal gratitude to Uncle Ho is extremely meaningful activity on environmental nature protection, raising awareness of planting and caring for greenery in urban and residential communities.

DISCLOSURE

INDEX CATEGORIES BY GRI

INDEX CATEGORY BY SASB

The statement applies: BIWASE's 2023 sustainability report was prepared and published in reference to the standards of the global reporting initiative (GRI) in the 2023 reporting period. The contents are listed in the GRI table of Contents Under the reporting period from January 1, 2023 to December 31, 2023, unless otherwise noted in the corresponding publication section in the report.

Administration

Index categories by GRI

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
1-7	1-7 includes the Appendix Table listing the GRI contents applied in the report	Chapter 9: disclosure of information	GRI Index catalog	No	
2-1	2-1 information about the organization	Chapter 1: information about BIWASE	Information about BIWASE	No	
2-2	2-2 information on subsidiaries	Chapter 1: information about BIWASE	Member companies and affiliated units	No	
2-3	2-3 reporting periods, frequency, and contact information	Opening chapter	Report message	No	
2-4	2-4 presentation of report information			Yes	Unavailable
2-5	2-5 Tuesday's independence guarantee			Yes	Unavailable
2-6	2-6 activities, value chains and other business relationships	Chapter 1: information about BIWASE	Core business activities	No	
2-7	2-7 staff members	Chapter 7: ensuring a positive working environment for workers	Labor welfare regime	No	
2-8	2-8 employees are not organizational employees			Yes	Unavailable/incomplete information
2-9	2-9 governance structure and components	Chapter 1: information about BIWASE	Corporate governance	No	
2-10	2-10 nominations and senior management selections			Yes	Unavailable/incomplete information
2-11	2-11 heads of organization	Chapter 1: information about BIWASE	Corporate governance	No	
2-12	2-12 the role of the highest level of Management in monitoring the management of impacts	Chapter 6: building a green management platform	Sustainable Development Board structure	No	
2-13	2-13 assignment of Impact management responsibilities	Chapter 6: building a green management platform	Sustainable Development Board structure	No	
2-13	2-13 assignment of Impact management responsibilities	Chapter 2: sustainable business foundation	Sustainable Development Goals 2023	No	
2-14	2-14 the role of the highest management level in the PTBV report		Report message	No	

Index categories by GRI

Administration

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
2-15	2-15 conflicts of interest			Yes	Unavailable/incomplete information
2-16	2-16 policy reporting critical issues	Chapter 6: building a green management platform	Risk management and control systems	No	
2-17	General knowledge of the highest management level	Chapter 1: information about BIWASE	Matrix capacity of the board	No	
2-18	2-18 evaluation of high management performance		References in BCTN	No	
2-19	2-19 remuneration policy			Yes	Unavailable/incomplete information
2-20	2-20 procedure for determining remuneration			Yes	Unavailable/incomplete information
2-21	2-21 rate of total annual remuneration			Yes	Unavailable/incomplete information
2-22	2-22 declaration on PTBV strategy	Chapter 2: sustainable business foundation	Sustainable business strategy vision at BIWASE 3 Pillars of Sustainable Development at BIWASE Sustainable Development Goal 2023	No	
2-23	2-23 policy commitments	Chapter 7: ensuring a positive working environment for workers	Commitment to employers	No	
2-23	2-23 policy commitments	Chapter 8: spreading value to the social community	Sustainable supply chain	No	
2-24	2-24 implementation of policy commitments	Chapter 7: ensuring a positive working environment for workers	Commitment to employers	No	
2-24	2-24 implementation of policy commitments	Chapter 8: spreading value to the social community	Chuỗi cung ứng bền vững	No	
2-25	2-25 negative impact remediation procedures	Chapter 6: building a green management platform	Mechanisms of complaints and denunciations	No	

Index categories by GRI

	GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
Administration	2-26	2-26 mechanisms of consultation and reporting of concerns	Chapter 6: building a green management platform	Mechanisms of complaints and denunciations	No	
	2-27	2-27 compliance with laws and regulations	Chương 5: Tăng cường năng lực kinh tế tuần hoàn	Compliance with environmental regulations	No	
	2-28	2-28 membership in associations	Chapter 1: information about BIWASE	Membership in associations	No	
	2-29	2-29 approaches to stakeholder cohesion	Chapter 3: engaging stakeholders	Stakeholder engagement	No	
	2-30	2-30 collective bargaining agreements			Yes	Unavailable/incomplete information
	3-1	3-1 process of identifying key topics	Chapter 4: key topics	Key assessment approach guidelines for sustainable development topics	No	
	3-2	3-2 list of key topics	Chapter 4: key topics	List of key topics	No	
	3-3	3-3 governance of key topics			Yes	Unavailable
Economy	201-1	201-1 direct economic value is created and allocated	Chapter 5: strengthening the circulatory economy	Economic performance	No	
	201-2	201-2 affects financial performance, risks and other opportunities due to climate change			Yes	Unavailable
	201-3	201-3 obligations under the prescribed welfare regime and other pension regimes	Chapter 7: ensuring a positive working environment for workers	Employee welfare policy	No	
	201-4	201-4 financial assistance received from the government			Yes	Unavailable/incomplete information
	202-1	202-1 ratio of the starting wage by gender to the region's minimum wage			Yes	Unavailable/incomplete information
	202-2	202-2 senior management rate employed from local community			Yes	Unavailable/incomplete information

Index categories by GRI

Economy

Environment

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
203-1	203-1 infrastructure investment and service support			Yes	Unavailable/incomplete information
203-2	203-2 critical indirect economic impact			Yes	Unavailable/incomplete information
204-1	204-1 spending rate for local suppliers			Yes	Unavailable/incomplete information
205-1	205-1 activities assessed risks associated with corruption	Chapter 6: building a green management platform	Anti-corruption	No	
205-2	205-2 communication and training on anti-corruption policies and processes	Chapter 6: building a green management platform	Anti-corruption	No	
205-3	205-3 confirmed corruption incidents and remedies	Chapter 6: building a green management platform	Anti-corruption	No	
206-1	206-1 legal actions against acts of competition restriction, antitrust and forms of sale monopoly			Yes	Unavailable
207-1	207-1 tax strategy			Yes	Unavailable/incomplete information
207-2	207-2 tax risk management, control and management			Yes	Unavailable/incomplete information
207-3	207-3 stakeholder involvement and methods of managing tax-related concerns			Yes	Unavailable/incomplete information
207-4	207-4 report by country			Yes	Unavailable/incomplete information
301-1	301-1 materials used by weight or volume			Yes	Unavailable/incomplete information
301-2	301-2 use recycled inputs			Yes	Unavailable/incomplete information
301-3	301-3 recalled products and packaging materials products			Yes	Unavailable/incomplete information

Index categories by GRI

Environment

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
302-1	302-1 energy consumption in the organization	Chapter 5: strengthening the circulatory economy	Energy management	No	
302-2	302-2 energy consumption outside the organization			Yes	Unavailable/incomplete information
302-3	302-3 measurement of energy use			Yes	Unavailable/incomplete information
302-4	302-4 saving energy consumption	Chapter 5: strengthening the circulatory economy	Energy management	No	
302-5	302-5 reduce energy demand of products and services	Chapter 5: strengthening the circulatory economy	Energy management	No	
303-1	303-1 use water as a common resource	Chapter 5: strengthening the circulatory economy	Water management and supply water treatment	No	
303-2	303-2 management of impacts related to water discharge	Chapter 5: strengthening the circulatory economy	Wastewater management	No	
303-3	303-3 water supply	Chapter 5: strengthening the circulatory economy	Water management and supply water treatment	No	
303-4	303-4 water discharge	Chapter 5: strengthening the circulatory economy	Wastewater management	No	
303-5	303-5 water consumption	Chapter 5: strengthening the circulatory economy	Water management and supply water treatment	No	
304-1	304-1 operating locations owned, leased, managed in or adjacent to protected areas and areas of high biodiversity value outside of protected areas			Yes	Not applicable
304-2	304-2 the critical impact of activities, products and services on biodiversity			Yes	Unavailable/incomplete information
304-3	304-3 protected or restored habitat			Yes	Not applicable

Index categories by GRI

Environment

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
403-4	403-4 employee engagement, consultation and communication on Occupational Safety and health			Yes	Unavailable/incomplete information
403-5	403-5 training workers on Occupational Safety and health	Chapter 7: ensuring a positive working environment for workers	Occupational Safety and health	No	
403-6	403-6 improve worker health	Chapter 7: ensuring a positive working environment for workers	Employee welfare policy	No	
403-6	403-6 improve worker health	Chapter 7: ensuring a positive working environment for workers	Take care of the mental health of workers with sports activities	No	
403-7	403-7 prevention and mitigation of effects on occupational health and safety	Chapter 6: building a green management platform	Risk management and control systems	No	
403-7	403-7 prevention and mitigation of effects on occupational health and safety	Chapter 7: ensuring a positive working environment for workers	Occupational Safety and health	No	
403-8	403-8 Hệ thống quản lý an toàn và sức khỏe nghề nghiệp cho người lao động			Yes	Unavailable/incomplete information
403-9	403-9 work-related injuries	Chapter 7: ensuring a positive working environment for workers	Occupational Safety and health	No	
403-10	403-10 work-related illnesses	Chapter 7: ensuring a positive working environment for workers	Occupational Safety and health	No	
404-1	404-1 average annual training hours of each employee			Yes	Unavailable/incomplete information

Index categories by GRI

	GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
Environment	308-1	308-1 evaluate new suppliers through environmental criteria			Yes	Not applicable
	308-2	308-2 negative environmental impacts in supply chain and remediation solutions			Yes	Not applicable
Society	401-1	401-1 number of New hired employees and resignation rate	Chapter 7: ensuring a positive working environment for workers	Employee welfare policy	No	
	401-2	401-2 full-time employee benefits	Chapter 7: ensuring a positive working environment for workers	Employee welfare policy	No	
	401-3	401-3 Child Care Leave	Chapter 7: ensuring a positive working environment for workers	Employee welfare policy	No	
	402-1	402-1 minimum notice period of changes in work			Yes	Unavailable/incomplete information
	403-1	403-1 Occupational Health and safety management system	Chapter 7: ensuring a positive working environment for workers	Occupational Safety and health	No	
	403-2	403-2 identification of violations, risk assessment and Incident Investigation	Chapter 5: strengthening the circulatory economy	Regulatory compliance and environmental management	No	
	403-2	403-2 identification of violations, risk assessment and Incident Investigation	Chapter 6: building a green management platform	Risk management and control systems	No	
	403-3	403-3 occupational health services	Chapter 7: ensuring a positive working environment for workers	Occupational Safety and health	No	

Index categories by GRI

Society

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
404-2	404-2 employee skills enhancement programs and transition support programs	Chapter 7: ensuring a positive working environment for workers	Training and education	No	
404-3	404-3 percent of employees receive regular work performance assessments and career development advice			Yes	Unavailable/incomplete information
405-1	405-1 degree of diversity in management and staff levels	Chapter 7: ensuring a positive working environment for workers	Equality, respect and diversity	No	
405-2	405-1 degree of diversity in management and staff levels			Yes	Unavailable/incomplete information
406-1	406-1 discrimination incidents and corrective actions are taken	Chapter 7: ensuring a positive working environment for workers	Equality, respect and diversity	No	
407-1	407-1 activities and suppliers may risk freedom of association and collective bargaining			Yes	Unavailable/incomplete information
408-1	408-1: activities that pose significant risks to the use of child labor	Chapter 7: ensuring a positive working environment for workers	Commitment to employers	No	
409-1	409-1 activities with significant risks to the form of forced labor	Chapter 7: ensuring a positive working environment for workers	Commitment to employers	No	
410-1	410-1 security personnel trained in human rights policies or processes			Yes	Unavailable/incomplete information
411-1	411-1 violations of Indigenous rights			Yes	Unavailable/incomplete information

Index categories by GRI

Society

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
404-2	404-2 employee skills enhancement programs and transition support programs	Chapter 7: ensuring a positive working environment for workers	Training and education	No	
404-3	404-3 percent of employees receive regular work performance assessments and career development advice			Yes	Unavailable/incomplete information
405-1	405-1 degree of diversity in management and staff levels	Chapter 7: ensuring a positive working environment for workers	Equality, respect and diversity	No	
405-2	Tỷ lệ lương cơ bản và thù lao của nữ giới so với nam giới			Yes	Unavailable/incomplete information
406-1	406-1 discrimination incidents and corrective actions are taken	Chapter 7: ensuring a positive working environment for workers	Equality, respect and diversity	No	
407-1	407-1 activities and suppliers may risk freedom of association and collective bargaining			Yes	Unavailable/incomplete information
408-1	408-1: activities that pose significant risks to the use of child labor	Chapter 7: ensuring a positive working environment for workers	Commitment to employers	No	
409-1	409-1 activities with significant risks to the form of forced labor	Chapter 7: ensuring a positive working environment for workers	Commitment to employers	No	
410-1	410-1 security personnel trained in human rights policies or processes			Yes	Unavailable/incomplete information
411-1	411-1 violations of Indigenous rights			Yes	Unavailable/incomplete information

Index categories by GRI

Society

GRI Index	Information to be published	Chapter report	Report content	Exclusion	Reasons for exclusion
413-1	413-1 participatory activities of local communities, Impact Assessment and development programs	Chapter 8: spreading value to the social community	Social and community activities	No	
413-2	413-2 activities that may have a negative impact or have had a significant negative impact on the local community			Yes	Unavailable/incomplete information
414-1	414-1 new suppliers have been preliminary evaluated using social criteria	Chapter 8: spreading value to the social community	Sustainable supply chain	No	
414-2	414-2 negative social impacts in supply chains and solutions	Chapter 8: spreading value to the social community	Sustainable supply chain	No	
415-1	415-1 political contributions			Yes	Not applicable
416-1	416-1 assessment of Health and safety impacts of product or service types	Chapter 8: spreading value to the social community	Safety and health stakeholders	No	
416-2	416-2 incidents of non-compliance related to the health and safety impact of products and services	Chapter 8: spreading value to the social community	Safety and health stakeholders	No	
417-1	417-1 requirements for trademark, product and service information			Yes	Unavailable/incomplete information
417-2	417-2 non-compliance incidents related to information and trademarks of products and services			Yes	Unavailable/incomplete information
417-3	417-3 non-compliance incidents related to marketing communications			Yes	Unavailable/incomplete information
418-1	418-1 confirmed complaints related to customer privacy violations and loss of customer data			Yes	Unavailable/incomplete information

Index categories by SASB

SASB index	Themes	Information to be published	Information published in 2023	Chapter report	Report content
IF-WU-000.B	Water supply management	(1) the volume of water extracted from the source, (2) % according to the source of water	Volume of mining water 2023: groundwater: 1,009,724 m3 Surface Water: 117,068,304 m3	Chapter 5: strengthening the circulatory economy	Water management and supply water treatment
IF-WU-000.D	Water supply management	The average volume of wastewater treated per day is equal to (1) sanitary sewer, (2) rainwater and (3) general sewer	Wastewater treatment capacity in Binh Duong Province through 4 factories: 90,000 m3 / day and night	Chapter 1: information about BIWASE	Hoạt động kinh doanh cốt lõi
IF-WU-130a.1	Energy management	(1) total energy consumption, (2) % grid usage (3) % renewable energy usage	Total power consumption 2023: 89,485,555 Kw-grid usage percentage: 93% - % solar power usage percentage: 7%	Chapter 5: strengthening the circulatory economy	Energy management
IF-WU-140a.2	Efficient distribution network	Actual volume of water loss (non-revenue)	Volume of water loss in 2023: 9,878,762 m3	Chapter 5: strengthening the circulatory economy	Water supply network management
IF-WU-140b.2	Wastewater quality management	Description of wastewater pollution management strategy due to emerging risks	Content in Section: 2.5 measures to reduce wastewater pollution	Chapter 5: strengthening the circulatory economy	Regulatory compliance and environmental management
IF-WU-240a.1	Wastewa-ter quality manage-ment	Average retail water prices for (1) residential, (2) commercial companies and (3) industrial customers	Average retail water prices in 2023 for: (1) population: 10,500 VND / m3 (2) trading company: 21,000 VND/m3 (3) industrial customers: 13,800 VND/m3 excluding VAT 5% and PMT 10%	Company website	Sources:https://biwase.com.vn/dich-vu-khach-hang/dich-vu-cap-nuoc-1/bang-gia-nuoc
IF-WU-250a.1	Quality water supply	The number of drinking or drinking water violations (1) acute health, (2) non-acute health and (3) unrelated health	In no case are violations (1) acute on health and (2) non-acute on health	Chapter 8: spreading value to the social community	Safety and health stakeholders

Index categories by SASB

SASB index	Themes	Information to be published	Information published in 2023	Chapter report	Report content
IF-WU-250a.2	Quality water supply	The strategy for managing feed water pollutants is now emerging concerns	Content in Section: 1. Protection of mining water resources	Chapter 5: strengthening the circulatory economy	Water management and supply water treatment
IF-WU-440a.3	Quality water supply	Risk management strategy for water quality and availability	Content in Section: 2. Ensure stability and continuity	Chapter 5: strengthening the circulatory economy	Water management and supply water treatment
IF-WW-110a.1	Greenhou se gas emissions	(1) total direct emissions (Scope 1) into the Environment, % Emissions (2) under emission restriction regulations, and (3) under emission inventory reporting regulations	Total emissions from incinerator No. 8 in 2023: - direct emissions (range 1): 7,158. 48 TOE/ tCO2e- Indirect emissions (range 2): 1,249.13 TOE/ tCO2e	Chapter 5: strengthening the circulatory economy	Emission management
IF-WW-110a.3	Greenhou se gas emissions	The short-and long-term comb or plan to manage (1) direct emissions (range 1) into the environment, (2) emission reduction targets, and (3) analyze the performance of those targets	Content in Section: 2. Manage emissions from power generation activity to reduce the amount of greenhouse gases generated during production	Chapter 5: strengthening the circulatory economy	Emission management
IF-WW-120a.1	Air quality	Emissions of the following contaminants: (1) NOx (excluding N2O), (2) SOx, (3) volatile organic compounds (VOC) and (4) hazardous air pollutants (HAP)	Emissions of pollutants are inventory at incinerator No. 8 in 2023: (1) NOx: 222.18 mg / Nm3 (2) SO2: 15.02 mg / Nm3 note: SO2 is part of the SOx	Chapter 5: strengthening the circulatory economy	Emission management
IF-WW-150a.3	Managem ent of leachate and hazardous waste	Number of incidents of non-compliance related to environ-mental impact	No incidents have been recorded in violation of regulations on all of our affiliates	Chapter 5: strengthening the circulatory economy	Regulatory compliance and environmental management

Index categories by SASB

SASB index	Themes	Information to be published	Information published in 2023	Chapter report	Report content
IF-WM-320a.1	Health & safety	(1) recorded incident rate (TRIR), (2) mortality rate and (3) near-hazard rate (NMFR) for (a) direct employees and (b) contract employees	Statistics of occupational accidents 2023:- 5 cases of minor injuries-0 cases of occupational diseases / severe injuries/deaths	Chapter 7: ensuring a positive working environment for workers	Occupational Safety and health
IF-WM-420a.1	Recycling and resource recovery	(1) the amount of waste that is disposed of is burned, of which (2) % of hazardous waste, (3) % of waste is burned to generate energy	Volume of waste burned in 2023: 67,566. 53 tons	Chapter 5: strengthening the circulatory economy	Waste management