

WATER AND SANITATION SECTOR PROFILE

1.0 Introduction

The Water and Sanitation Sector in Ghana plays a crucial role in driving economic growth and development. Ensuring adequate infrastructure in this sector remains a key priority for enhancing citizens' socio-economic well-being and overall standard of living. Access to improved water and sanitation systems in the country is largely influenced by factors such as income levels, education, household size, and geographic region. According to the 2022 Ghana Demographic and Health Survey, the proportion of households with access to drinking water from an improved source rose from 56% in 1993 to 91% in 2022. However, despite these advancements, significant disparities persist in water accessibility and availability between rural and urban areas.

In the area of sanitation, Ghana has experienced minimal nationwide coverage with only 59.3% (WaterAid Ghana, 2023) of the population having access to better, non-shared sanitation resources. Generally, sanitation and waste management concerns in Ghana are more profound in urban areas than in rural areas. While waste in both settings take various forms, the most common types include domestic solid waste, construction waste, and industrial waste, with domestic solid waste being the most widespread. Addressing sanitation and waste management issues is essential for enhancing public health and ensuring environmental sustainability across both urban and rural communities.

The per capita municipal solid waste (MSW) generation per day in Ghana is estimated to be 0.47 kg/person/day, which translates to over 14,000 tonnes of solid waste generation daily. A study concluded that the composition of MSW generated in Ghana is dominated by the organic component (constituting 61%), followed by plastics (constituting 14%), and the rest are 5% paper, 3% metal, 3% glass, 1% rubber and leather, 2% textiles, 6% inert, and 5% miscellaneous. (Yakah *et al*, 2023). These figures are subject to change sporadically with the rising population growth and development. In this light, there is continued profound legal, regulatory, and institutional approaches that have aimed at reforming and addressing weaknesses in the water and sanitation sector.

Presently, the emergence of rapid urbanization, population growth and industrialization have become anchors for considerable projects in the WASH sector. Trends in demography and business lines are intensifying environmental, economic, and social challenges. Consequently, investment in infrastructural systems for water and sanitation is a strong basic requirement for sustainable development and economic growth.

The Organization for Economic Cooperation and Development (OECD) predicts that bridging the gap in water and sanitation infrastructure is one of the prerequisites that helps reduce health risks which frees up time for keen sectors and other productive activities for increased GDP and over all well-being of a population in a defined jurisdiction. Sustainable investments are therefore desired to reap the benefits of Water and Sanitation Services (WSS).

2.0 Investment Opportunities in the Water and Sanitation Sector

In Ghana, there are diversified portfolios in the water and sanitation sector that can be leveraged for revenue generation which is a transformative step for an equipped WASH sector. The purpose of private driven investments is to promote efficient economic growth and development by creating jobs and

increasing per capita incomes. Additionally, it has become an avenue for facilitating the engagement of more people in decision making processes created by private sector development in tackling social and environmental challenges in the WASH Sector. Opportunities in the Water and Sanitation Sector include:

Water Supply

- **Water and Wastewater Treatment:** Less than 8% of wastewater undergoes treatment in Ghana with only seven (7) out of forty-four (44) sewage plants functioning at capacity. The Government of Ghana intends to build capacity in the industry through the encouragement of treatment plants in all sixteen regions in Ghana (*Israel's Trade and Economic mission to Ghana*) and encourages the private sector to lead this project.
- **Supply of Hardware Systems (Pumps, Valves etc.):** The extension of water supply to rural and urban areas is anticipated to increase over the subsequent years. Quality Hardware supplies for laying water distribution to households and corporate spaces are largely needed to meet demands for it.
- **Water Provision Services- Drinking Water:** Boreholes, Treatment for bulk water supply and bottling, Supply to beverage industry and food processing, Filters, Equipment quality control, testing
- **Wetland, Climate Change Mitigation and Flooding:** Rising need for measures to prevent flooding and response to climate change concerns, in addition to the establishment of climate resistant water systems. This gives way to business opportunities in drainage, water resource management and coastal protection.
- **Other Water Supply Opportunities include:**
 - PPPs in urban and rural water supply infrastructure
 - Supply of technology and equipment for water treatment, quality monitoring, and sanitation facilities
- **Other Solid Waste Opportunities include:**
 - Full-scale laboratories for water quality control and testing
 - Management, operation, and maintenance of WASH infrastructure/services

Solid waste:

- The Ministry of Environment, Science, Technology, and Innovation is currently leading an outreach initiative to integrate single-use plastics into the recycling chain, supporting the implementation of a circular economy model in Ghana's plastic sector.
- **Waste Recycling to Compost:** On the average, integrated waste processing and recycling activities for sector specific purposes in Ghana and its sub regions is minimal due to a limited number of compost recycling plants. Investments are needed in compost plants in key areas in Ghana to increase the rate and growth of waste recycling in Ghana.
- **Other Solid Waste Opportunities include:**
 - Idem to fuel (bio-diesel, briquettes)
 - Waste to energy from landfills, biogas
 - Collection and transportation
 - Recycling of E-Waste
 - Evacuation of bulk waste from private property
 - Evacuation of construction waste and debris
 - Evacuation of E-Waste

Wastewater/Liquid Waste/Fecal sludge:

- Sludge to fuel (bio-diesel, briquettes)
- Sludge to compost
- Wastewater treatment plants with sewerage

- Collection and transportation
- Equipment quality control, testing

Behavioural change campaigns:

- Designed programs for television and radio
- Educational materials (Content development, publications, and education strategy for children and youth)
- Capacity building needs for NGOs and other WASH institutions

Development of electronic systems for efficient water supply and waste management

- Smart water technology for efficient water resource and waste management

3.0 Ghana's Competitive Advantage in the Water and Sanitation Sector

- *Ghana's Competitive Advantage*
 - Ghana is the first African country to have joined the World Economic Forum's Global Plastic Action Partnership (**GPAP**) (*Ministry of Environment, Science, Technology, and Innovation*)
 - Ghana generates approximately 1.1 million tonnes of waste per annum and an estimated 5% of that is accumulated for recycling. According to a 2023 publication by the World Economic Forum, Ghana generates approximately 840,000 tonnes of plastic waste per year and approximately 9.5% of that is collected for recycling. In Africa, less than 20% of waste undergoes recycling, therefore with a 9.5% recycling rate, Ghana is one of the emerging economies with a rapidly growing waste management industry.
 - Ghana is one of the countries to have achieved its MDG water supply target exceeding its target of 77% coverage with approximately 88% of the urban population in Ghana having access to safe water for domestic purposes.
 - In terms of SDGs, Ghana has implemented innovative initiatives to promote improved sanitation practices, such as the "Clean Ghana" campaign launched in 2019 to eliminate open defecation by 2025. The government has partnered with international organizations, NGOs, and private sector stakeholders to leverage resources, expertise, and technologies for sustainable sanitation solutions.
- *Innovative and private sector driven policies*
 - A unique National Plastics Management Policy which promotes environmentally friendly, scientific, and technological practices which sets Ghana on the path to becoming a regional model for implementing a circular economy regime for the plastics sector in Africa.
 - Strategic Water Sector development plans deeply rooted in the tenets of sustainable development goals aimed at provision of adequate water before all through active public private partnership.

4.0 Key Investment drivers for the Water and Sanitation Sector

- **People**
 - The population of Ghana has increased from 24.7 million in 2010 to 33.07 million according to the Ghana Statistical Service. This is an indication that the percentage of the population required to have access to well-equipped water and sanitation infrastructure and resources have increased over time.
 - Moreover, the country has a consistently growing middle-income class. Approximately 46% of Ghanaians are now classified in the middle-income category compared to a continent-wide average of 34.3%. Personal expenditure is anticipated to reach a compound annual growth rate of over 12% in subsequent years.

- **Proximity to Markets**

- Ghana is geographically closer than any other country to the centre of the planet- an average of 8 hours of flying time to Europe and the Americas.
- Ghana is now the new commercial capital for Africa by virtue of its hosting of the AfCFTA Secretariat. The African Continental Free Trade Area (AfCFTA) will cover a market of 1.2 billion people and a gross domestic product (GDP) of \$3.4 trillion, across all 54 member States of the African Union.

Data Subscription Figures

– In Ghana, Data Service is provided by Mobile Network Operators (MNOs), Fixed Network Operators (FNOs) and Broadband Wireless Access Operators (BWAs). With an estimated population of 31,934,420, the total subscriptions of data in the country at the end of March 2023 was 22,624,990. The penetration rate for the period stood at 70.85%.

– **Mobile Network Operators (MNOs) Mobile Data Subscriptions:** There are four (4) Operators providing Mobile Data service namely, AirtelTigo, Glo, MTN and Vodafone. At the end of March 2023, the total number of mobile data subscriptions was 22,624,990. The penetration rate for the period stood at 70.85%.

– **Fixed Network Data Subscriptions:** Vodafone, AirtelTigo and MTN are the three (3) Operators providing fixed data services in Ghana. As at the end of March 2023, the total number of fixed data subscriptions was 105,778, with Vodafone recording 77,000. AirtelTigo and MTN ended the month with 556 and 28,222 subscriptions respectively.

– **Broadband Wireless Access (BWA) Subscriptions:** Broadband Wireless Access (BWA) Operators provide broadband data access through wireless media to consumer and business markets. In Ghana, there are four (4) BWA Operators namely Surfline, Broadband Home, Telesol and Busy Internet. The total subscriptions for BWA stood at 37,785 as at the end of March 2023.

– **4G Data:** Currently, there are seven (7) Operators providing 4G data services in Ghana. They are Telesol, Surfline, MTN, Blu Telecommunication Limited, Broadband Home, Vodafone Ghana, and Busy Internet. As of January 2023, the total number of 4G data subscriptions was 9,256,663 with MTN and Vodafone recording 7,366,868 and 1,853,999 respectively. Surfline, ended the month with 35,796 subscriptions while no subscriptions for Busy Internet, Telesol, Blu Telecommunication Limited, and Broadband Home.

5.0 Summary of the current Water and Sanitation sector in Ghana

Significant development in Ghana's water sector is the increase in access to improved water sources. The Ghana Statistical Service (GSS) reports that around 84% of households across the country have access to basic drinking water services, meaning water is sourced from an improved supply either on-site or within a 30-minute round trip. Access is more widespread in urban areas (95%) than in rural areas (72%). However, challenges persist in ensuring continuous and reliable water supply, particularly in rural and peri-urban areas where access remains limited.

To systematically improve activities in the WASH sector, several policies and plans have been put in place to achieve set goals and objectives. The United States through the United States Agency for International Development (USAID) plans on investing approximately \$100 million in Ghana's water, sanitation, hygiene (WASH) sector over the next five years (2024-2028) to promote sustainable water and sanitation resources, and infrastructure. This is in addition to \$89million USAID has invested since 2009.

The Ghanaian government demonstrates its commitment to achieving universal access to water, sanitation, and hygiene (WASH) by 2025 through various initiatives including the National Community Water and Sanitation Strategy which serves as a roadmap for the sector's development in achieving universal access by 2025, by focusing on rural and small-town needs. The Community Water and Sanitation Agency takes the lead in implementing projects in these areas. Additionally, programs like "Community-Led Total Sanitation" empower communities to take ownership of their sanitation solutions, promoting open defecation-free environments.

The Ministry of Environment, Science, Technology and Innovation (MEST), in April 2025 launched a \$7 million initiative, the Circular Economy Framework for the Plastics Sector (CEF-PS), to support Ghana's transition to a circular economy in line with its National Plastic Management Policy. Funded by the Global Environment Facility and executed by UNIDO, the project targets the recovery of 93,000 tonnes of plastic waste, prevention of 13,000 tonnes of marine litter, and training of over 2,000 stakeholders within five years. With Ghana generating about 840,000 tonnes of plastic waste annually and recycling only 9.5%, the initiative also includes \$4.35 million in support for SMEs innovating in biodegradable plastics, recycling, and community waste collection, with an initial \$331,606 disbursed to 10 selected enterprises.

Ghana is incorporating e-waste management into technical and tertiary education to equip students with sustainable recycling skills, formalize the informal sector, and promote green jobs. Led by the Ministry of Environment with support from international partners, the initiative is already active in three Schools of Hygiene in Accra, Ho, and Tamale, with plans to expand. It also offers short courses for informal workers like scrap dealers, encouraging safer practices. As e-waste increases due to rising electronic use and imports, the program addresses environmental and health risks from unsafe disposal. Three collection centers operate nationwide, offering incentives and ensuring proper recycling, with a pilot phase running until January 2026 amid calls for its extension.

Selected profiles of government agencies and top companies in the Water and Sanitation Sector

Ghana Water Company Limited

The Ghana Water Company Limited (**GWCL**) is a world class utility organization



that was established in July 1999. It came into being following the conversion of the Ghana Water and Sewerage Corporation into a state-owned limited liability company under the Statutory Corporations (Conversion to Companies) Act 461 of 1993 as amended by LI 1648.

GWCL is the legal authority that manages urban water supply in the Republic of Ghana. It is responsible for the operation of eighty-eight (88) urban water supply systems located in respective regions. On the average, the organization produces about eight hundred and seventy-one thousand, four hundred and ninety-six cubic meters (871,496m³) of water per day (192 million gallons per day). At present, it is reportedly responding to potable water demand estimated at about one million, one hundred and thirty-one thousand, eight hundred and eighteen cubic meters (1,131,818.18m³) of water per day (249 million per day). In correspondence, current urban water supply coverage is about seventy-seven percent (77%).

GWCL seeks to provide residents in urban areas with quality and excellent customer service. The organization has a driven mindset for continuous improvement and innovation and a mandate to protect the health and safety of its stakeholders.

Community Water and Sanitation Agency (CWSA)



To increase water and sanitation resources equitably and fairly to rural areas in Ghana,

the community Water and Sanitation Agency was established to independently handle water and sanitation systems. It is a public-sector entity that follows the policies of the new Ministry of Sanitation and Water Resources.

The agency empowers Assemblies to promote active community participation in the design, planning, implementation, and community management of water and sanitation projects, particularly amongst women. Additionally, it develops strategies for effectively mobilizing resources to carry out safe water development and accompanying sanitation programs. By means of its partnership, the organization assists and coordinates with non-governmental organizations (NGOs) working in rural areas and small towns to provide water and related sanitation and hygiene education.

Through its efforts and dedication, piped systems now stand at 71 for small communities' systems, 504 small towns piped schemes, 125 limited mechanized systems and 15 GWCL piped connections. 1,553 new hand-dug wells, 372 boreholes installed with Solar Pumps and 18,009 new boreholes fitted with hand pumps have also been provided by CWSA. The remaining 13,921 were provided by other sector partners. Rehabilitated facilities by CWSA also include, 100 Rehabilitated Hand-Dug Wells, 4,580 Rehabilitated Boreholes as well as 4,230 Converted systems and 110 Rainwater Catchment Systems have also been completed.

Zoom Lion Ghana Limited



ZoomLion is one of the most remarkable waste management companies in Ghana. It is

a wholly Ghanaian owned organization established under the Companies **Act 1963, Act 179**. It forms part of the 45 subsidiaries of the Jospong Group and has impressions in other African countries such as Togo, Angola, Zambia, and Equatorial Guinea, and Liberia while negotiations are far advanced for the company to start operations in other African countries such as Sierra Leone and Nigeria.

The company focuses on the provision of waste management solutions from waste collection, through haulage, transfer, and sorting to recycling and disposal. It has a workforce of over 90,000 skilled and non-skilled personnel actively present in the daily operations to achieve targeted goals and objectives. Zoomlion has over 14 years of experience and more than 5 million customers it offers its services to. To support efficient management of waste, it has distributed more than 1 million bins to households in Ghana.

It is a key collaborator of the Government of Ghana, member of the Environmental Services Providers Association (**ESPA**) and a silver member of the International Solid Waste Management Association (**ISWMA, USA**). The company has a purpose to satisfy clients and customers by improving upon operations to make them cost-effective while keeping Africa and Ghana clean, green, and healthy.

Voltic Ghana Company Limited



Voltic Ghana Company Limited is a water bottling organization operating under Coca-

Cola Beverages Africa (**CCBA**). It started its activities in 1995 and has remained the market leader in

Ghana for more than two decades through the provision of its Mineral Water and VAD products. The company is equipped with two production plants, employs over 760 individuals, and manages more than 54 franchises under its quality Cool Pac sachet brand.

The brand is the only water company in Ghana with an ISO Certification. The organization is a strong advocate of sustainability and has made a conscious effort by integrating it in its line of work. Voltic Ghana Limited is constantly pursuing investments in the company's human resource, the environment, and the community. It holds in high esteem the act of Corporate Social Responsibility (**CSR**) and focuses on three key areas termed the **3Ws: Water Stewardship, Waste Management and Women Empowerment**.

Voltic Ghana identifies itself as a unique brand that has a long-term goal to continuously lead in the industry through innovative manufacturing and market facing strategies.

Coliba Ghana



Coliba Ghana is a waste management company specialized in plastic waste

collection, recycling, Greentech solutions, sorting & processing and recycling hubs and transport services.

Coliba is technologically inclined and happens to be a company that offers digital solutions for effective and efficient waste management. Their mission is “to create a sustainable plastic waste recovery and value chain that protects the environment and our environmental stakeholders”.

Their vision is “to lead change in the plastic recycling industry through the lens of circularity, innovation and value creation”.

When you think of plastics you think Coliba and when you think Coliba you think of environmental Sustainability. Essentially, their goal is to address SDG 1(No poverty), 3 (Good health and well Being), 6 (Clean water & Sanitation), 8 (Decent work), 12 (Responsible consumption & Production) and 13 (Climate Action).

The Integrated Recycling and Compost Plant (IRECOP)



IRECOP Limited is a leading integrated waste processing and recycling

company based in Ghana, specializing in sustainable waste management practices. The company

receives, sorts, processes, and recycles municipal solid waste to produce organic compost for agricultural use while recovering valuable materials such as paper, metals, and plastics for industrial purposes.

IRECOP's core services include compost production from biodegradable waste, plastic recycling into various pellets, and metal recovery for industrial reuse.

The company aims to establish consistent PET bottles scrap supply for monthly recycling and expand its plastic recycling operations to export high-quality recycled plastics globally. With a commitment to environmental stewardship, quality assurance, innovation, and customer focus, IRECOP Limited is dedicated to driving positive change in waste recycling and contributing to a cleaner, greener future in Ghana and beyond.

6.0 Next Steps/Contact

For further information, please contact:

The Chief Executive Officer

Ghana Investment Promotion Centre

Vivo Place, No A1 Rangoon Lane,

Cantonments- Accra

P.O. Box M193

Ministries-Accra

Tel : +233 302 665 125-9

Email : info@gipc.gov.gh

Website: <https://www.gipc.gov.gh/>

APPENDICES

Appendix 1: LIST OF WASTE RECYCLING AND MANAGEMENT COMPANIES

	NAME OF COMPANY	CONTACT	ADDRESS
1.	<i>Coliba Ghana</i>	<i>0302963207</i>	<i>Dela Ave, Ghana</i>
2.	<i>Jekora Ventures Limited</i>	<i>0289673514</i>	<i>KanflanCI, Accra</i>
3.	<i>Recyclers Ghana Limited</i>	<i>0544347877</i>	<i>PW Junction, Shai Hills</i>
4.	<i>Nelplast Ghana Limited</i>	<i>0247277869</i>	<i>Atadeka Road, Tema</i>
5.	<i>Dispose Green</i>	<i>0246854804</i>	<i>149 E Legon-Trasacco Estate Road, Madina</i>
6.	<i>Plastic Recycling Collector</i>	<i>0244202585</i>	<i>Tema</i>
7.	<i>Electro Recycling Ghana Limited</i>	<i>0243776026</i>	<i>Ghana Post Location GE-115-5825</i>
8.	<i>BD Waste</i>	<i>0570426896</i>	<i>Ispace Foundation NO: 14 Otu Adzin Road Spintex Road Accra</i>
9.	<i>Asadu Royal Waste Management</i>	<i>0243211002</i>	<i>Taifa Junction Opposite Rocksters Ltd Off, Nsawam</i>
10.	<i>Rapid Waste Limited</i>	<i>0555932625</i>	<i>HR4G+6P6, Accra</i>
11.	<i>Ga Integrated Waste Management Centre</i>	<i>0233300300</i>	<i>Juaso - Nsawam Rd</i>

12.	Waste Landfills Company Limited	0303936133	Zoompak road, Achimota
13.	PREMKO Waste Management Services	0202044592	Old Town, Aviation Down, Madina Pmb Md 228
14.	Satmesh Biotech	0200096040	Mponua Rural Bank, Ofosua House, ANU street, Koforidua

Appendix 2: APPROVED WATER TARRIFFS (PUBLIC UTILITY REGULATORY COMMISSION)

Tariff Category			Effective 1 st May 2025
(a) Residential:			
0-5m ³ (Exclusive)	-	GHp/1000 Litres	528.1760
Above 5 m ³	-	GHp/1000 Litres	934.4558
Service Charge	-	GHp/Month	1000.0000
(b) Non-Residential			
	-	GHp/1000 Litres	1519.8314
Service Charge	-	GHp/Month	2000.0000
(c) Commercial			
	-	GHp/1000 Litres	2828.3569
Service Charge	-	GHp/Month	2000.0000
(d) Industrial			
	-	GHp/1000 Litres	2828.3569
Service Charge	-	GHp/Month	2000.0000
(e) Public Institutions/Gov't Dept			
	-	GHp/1000 Litres	1357.6113
Service Charge	-	GHp/Month	2000.0000
(f) Public Stand Pipes			
	-	GHp/1000 Litres	632.7664
Service Charge	-	GHp/Month	2000.0000
(g) Bottled Water and Drinks			
	-	GHp/1000 Litres	2828.3569
Service Charge	-	GHp/Month	25000.0000
(h) Sachet Water Producers			
	-	GHp/1000 Litres	2488.9541
Service Charge	-	GHp/Month	10000.0000
(i) Bulk Supply			
	-	GHp/1000 Litres	896.
Service Charge	-	GHp/Month	5000.0000
			3699.4909

(j)	Ports and Harbours	- GHp/1000 Litres	50000.0000
	Service Charge	- GHp/Month	

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