

**water life  
systems**

## What We Do

### WATER TREATMENT & SUPPLY

Water is life... for both people and business. Our scalable prefabricated systems treat ground, surface, and wastewater sources to supply:

- Drinking / Domestic Water
- Industrial / Process Water
- Agricultural / Irrigation Water

### SANITATION & HYGIENE

The COVID-19 pandemic has raised the awareness of global water challenges and the lack of proper sanitation. Public health conditions related to clean drinking water, and adequate treatment and disposal of human excreta and sewage, are our top priority. Our systems are designed to provide Urban, Peri-Urban, and Rural populations with proper sanitation and hygiene services.

### FOOD SECURITY

We recover water and nutrients, among other resources, from wastewater for reuse and closed-loop plumbing infrastructure in agriculture and aquaculture-controlled environment operations.

### IoT CONNECTED

Our Wi-Fi, Lo-Ra, and Satellite IoT Connected arsenal of digital pathogen, heavy metals and nutrient sensors make our solutions revolutionary.



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## Country Spotlight: Republic of Guinea

**Guinea's Horizon 2030 program aims to achieve the Sustainable Development Goals (SDGs), with the Government of the Republic of Guinea placing a proactive emphasis on access to potable water and adequate sanitation systems found in SDG 6. These initiatives set a comprehensive framework for action and the Global goals to end extreme poverty and fight inequality and injustice, so that no one is left behind.**

Hydraulic sector objectives of the Horizon 2030 National Program (2020 –2030) are expected to provide rural and semi-urban areas with adequate access to potable water for 11,491,140 inhabitants; This implies the construction of 20,247 new infrastructure, including 607 potable water supply systems, 8,099 water boreholes (or 1,841 water points per year) with a ratio of 300 inhabitants per water point for a daily endowment of 20 liters per capita, maintaining or even increasing the rate of pump operation around 90%.

**As for the sanitation sector, in rural areas, it is about realizing 60,740 public latrines and approximately 867,720 family latrines through the program.** These community latrines are

accompanying measures to preserve water quality on the chain and environmental hygiene of the area.

The previous National Program for Potable Water Supply and Sanitation (PNAEPA\_ OMD) that operated from 2005 to 2015 in rural and semi-urban areas of Guinea, had originally set its objectives to increase the water and sanitation coverage rate respectively from 42.25% to 71.12% and 15.20% to 57.60%, in order to improve the living conditions of rural population estimated, at the time, to 7,671,300 people.

**By 2015 deadline, out of 13,221 new water points planned, only 5,276 (40%) were achieved, a remaining gap of 7,945 water points to be realized.**

Taking into account the new SDGs and the ever-increasing needs of the population, especially in rural and semi-urban areas, this gap has been revised upwards to supply water and sanitation services to 11.5 million people within Guinea.

The Horizon 2030 water and sanitation goals present enormous challenges that Water Life Systems has analyzed and has the solutions to overcome.



## OUR MARKETS

### INDUSTRIAL

Agriculture | Aquaculture |  
Automotive | Commercial  
Livestock | Disaster Management  
| Environmental Rehab | Food &  
Beverage | Military | Mining | Oil  
& Gas | Paper & Pulp |  
Petrochemical | Pharma | Power  
| Specialized Industry | Steel |  
Tourism

### MUNICIPAL

Urban, Peri-Urban & Rural  
Utilities | Commercial Buildings |  
Public Facilities | Mixed-Use  
Buildings | Developments | Multi-  
Tenant Residences | Single  
Homes

### OUR GUARANTEE

Water Life Systems guarantees that you will receive enhanced security and higher quality with Water Life Systems' products and services. The service starts with customizing our solutions to your specific needs and continues through equipment delivery and life cycle maintenance. We back up what we design and manufacture to ensure that you receive complete technical and process support on-demand.



# CCC

## Canadian Commercial Corporation Corporation Commerciale Canadienne

**In the February Water Life issue, we discussed the importance of implementing new water and sanitation technologies from WLS that provide cost-effective solutions<sup>9</sup>.**

The Canadian Commercial Corporation (CCC) is the Canadian federal Crown corporation mandated to facilitate international trade on behalf of Canadian industry, particularly with governments of foreign countries. The CCC, and other similar organizations found in developing nations, are key to realizing SDGs and implementing the supporting infrastructure and technologies.

As the world was rebuilding from World War II, the Government of Canada created the Canadian Commercial Corporation (CCC) to assist in global efforts. From <https://www.ccc.ca/>, this new government organization was formed to deliver the critical Canadian resources desperately needed by European Governments for reconstruction efforts and was designed to offer rapid acquisitions to meet critical needs while maintaining careful control over the significant public funds it was managing for these purchases.

CCC has evolved and expanded its impact since that time, but remains true to its original commitment to provide governments with access to quality Canadian products and services under its business lines of Global Defence

and Security and International Commercial Business.

CCC supports the growth of international trade by helping Canadian technology exporters gain access to foreign government procurement markets. Through a government-to-government contracting approach, CCC positions qualified Canadian exporters to win international contracts with governments abroad while significantly reducing the risks associated with foreign procurement.

CCC offers its services when a government to government contracting approach may help meet sensitive or urgent acquisition needs that can't be filled through competitive tendering, ensure projects get delivered as promised, or reduce the risk of bribery or corruption during the procurement process.

CCC's mandate is to assist exporters of all sizes, from very large segment-leading companies going head to head with global competition, large or mid-sized exporters in need of political and business risk mitigation, to small exporters with niche solutions that could use the credibility of the Government of Canada when pursuing an international trade opportunity.

The Canadian Government and the CCC is an exceptionally active team in international development, especially throughout the continent of Africa.

# SUSTAINABLE DEVELOPMENT GOALS



## #WeCanSaveTheWorld

The core mission of WLS is to increase global resiliency and sustainability in water, sanitation, and food security systems.

The world's rapid population growth, coupled with rapid climate change, is increasing the competition for resources. At WLS, we're committed to doing our part to operate sustainably. Our innovative solutions provide resource conservation, energy savings, the reuse of water, food security, and better population well-being and health outcomes.

Advanced O3In-Gen™ technology is one example of WLS' focus on cost savings and increased treatment effectiveness. O3In-Gen™ is used in WLS' PureBOX™ distributed / decentralized package plants and controlled environment food production systems. The systems are ideally suited for a scalable solution to provide clean water, wastewater treatment, and food security for all by 2030 in a world where billions of people do not have access to sufficient water supply and sanitation services. We envision a world without waterborne pollution

and the abundance of freshwater for all using our water treatment and monitoring systems, which correspond most directly to the United Nations Sustainable Development Goals SDG 6 - Clean Water and Sanitation.

At WLS, we're committed achieving the United Nations Sustainable Development Goals (SDGs) by the 2030 goal date. This collection of 17 global goals is designed to be a "blueprint to achieve a better and more sustainable future for all." Our operations and solutions contribute to all the UN's SDGs.

## This Issue's SDG Provided by Water Life Systems

**World Economic Forum 2020: "The global water crisis is one of the greatest threats to humanity."**

The "traditional" way of living is not sustainable for life on Earth. Water Life Systems leadership, in living through their own climate-caused near disasters, being Vancouver 100-year drought in 2015 and the 2017-18 Day Zero scare in Cape Town, South Africa, have developed water supply, sanitation, and food security Micro-Utility solutions that can be deployed into the built environment on a global scale. Tech components can be integrated into centralized systems.

**WLS systems are at the core of providing water stressed populations with clean water and sanitation services. Currently some 2.2 billion people worldwide do not have sufficient drinking water services, 4.2 billion people do not have safely managed sanitation services, and 3 billion lack basic handwashing facilities.**

Much of the world is not set to meet United Nations Sustainable Development Goals with current systems thinking. No single solution will result in universal access by 2030. A range of adaptable and scalable solutions are needed to overcome geography, gender, and socioeconomic barriers.

## SDG 12

### Sustainable Cities and Communities

#### 12.1 Target

Implement the 10-year sustainable consumption and production framework.

**UN definition:** Implement the 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries.

#### 12.1.1 Indicators

Sustainable consumption and production action plans with all countries taking action by 2030.

#### 12.2 Target

Achieve sustainable management and use of natural resources by 2030.

#### 12.2.1 Indicators

Material footprint, material footprint per capita, and material footprint per GDP.

#### 12.2.2 Indicators

Domestic material consumption.

#### 12.4 Target

Responsible management of chemicals and waste. By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment.

#### 12.4.2 Indicators

Achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks by 2020.

#### 12.5 Target

By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse.

#### 12.5.1 Indicators

The national recycling rate, tons of material recycled.

#### 12.7 Target

Promote public procurement practices that are sustainable, in accordance with national policies and priorities.

#### 12.7.1 Indicators

The number of countries implementing sustainable public procurement policies and action plans.

## Partnership Tracks

WLS offers various partnership solutions including:

- Integrated product distribution
- Individual tech component licensing
- Complete tech transfer programs for national solution integration

Technical expertise, geography and solution area of your business will determine which track best fits your business model. Partners can participate in one or more tracks, based on expertise and available production facilities.

[Click here for more information and to complete the application](#)

Would you like to participate in the WLS prime partnership program? Please fill out the application to help us determine how to best approach the partnership to ensure mutual success.

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**For More Information**

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Water, Sanitation & Food Security