

In 2023, Build Health International's Medical Oxygen program expanded into building biomedical capacity through comprehensive education and training sessions for biomedical personnel, hospital management, and other health officials.

Working in partnership with The Global Fund via Project BOXER, the Skoll Foundation, and the Bill and Melinda Gates Foundation, as well as local Ministries of Health and NGOs, BHI continued ongoing efforts to install, repair, and provide technical advisory for medical oxygen plants. We are pleased to share the latest numbers that demonstrate the impact and sustainability of building oxygen access throughout the globe.

### Find & Fix

Continued to identify, assess, and repair pressure swing adsorption (PSA) plants in collaboration with local partners.



**25**

Completed repairs



**9**

Plants assessed



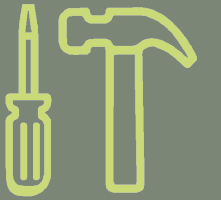
**3.7 millions**

cubic meters of oxygen unlocked



### Tools

Countries are making large investments in new oxygen systems and equipment. Without the appropriate tools and training, these new systems cannot be well maintained and may stop functioning before they should. Having the necessary tool kits at each site is a small investment in keeping these new PSA plants running.



**127**

Toolkits distributed



**10**

Countries

### Training

Expanded training offerings to include management, site assessment, and electrical assessment training. Trainings were held in seven languages, including English, Haitian Creole, French, Kinyarwanda, Chichewa, Kirundi, and Portuguese.



**833**

Trainees



**14**

Countries



**7**

Languages

### Technical Advisory

Assisted in the development of plant specifications and reviewed supplier bids, proposals, and drawings for new oxygen systems. Conducted quality assurance visits to ensure sites were ready to receive PSA plants. Assessed electrical infrastructure and provided recommendations for upgrades to support PSA plants.



**52**

Supported countries



**388**

Plants

# Oxygen Plants

4 oxygen plants commissioned by BHI, capable of producing over 690K cubic meters of oxygen annually.



Malawi

Gabon

Kenya

Haiti

# Training Center and Capacity Building



Rwanda



BHI is working with the Rwandan Ministry of Health, Rwanda Biomedical Center, and university partners including Rwanda Polytechnic's Integrated Polytechnic Regional College (IPRC) in Kigali to increase capacity building and technical skill building to support health systems. BHI is establishing a training center at IPRC to provide a regional hub for these activities.

# PSA Plant Installation



Kenya



In October 2023, BHI installed and commissioned a PSA plant and medical vacuum pump at AIC Kijabe Mission Hospital in Kenya. These plants supply medical oxygen, medical vacuum, and medical air via pipelines directly to patient beds including operating theaters, ICU, and pediatric ward.

# Multi-Pronged Involvement

BHI served as part of the technical working group in Liberia and contributed to drafting national Standard Operating Procedures for PSA plant operation. The Global Fund plant installation is ongoing, with BHI providing support for trainees through a network of WhatsApp communities.



Liberia

# BHI Oxygen

# Website

The BHI Oxygen website launched on World Oxygen Day to provide technical support including PSA basics, tools and resources, video tutorials, and future training dates. BHI received and fielded 22 support requests through the support webform.

# CONTACT US

100 Cummings Center  
Suite 120B  
Beverly, MA 01915

info@buildhealthinternational.org  
+1-978-969-0920

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