WATER SECURITY

Winrock recognizes that water is fundamental to human well-being, and we provide solutions that assure collaborative, sustainable and cost-effective water management.

WINROCK INTERNATIONAL

Our **Water Security** is at risk. Water resources face increased demand from population growth, rising living standards and urbanization. Climate change and poor water governance also exacerbate water-related challenges.

Methodology

Winrock's **Water Security** practice addresses these challenges through a cross-sector, stakeholder-driven approach that mitigates risks and invests in more resilient infrastructure. Recognizing the nexus between water, food, energy and political stability, we work with communities, local governments and the private sector to address threats to secure water systems. The aim is to ensure the availability, access and safety of water for health, household use and agricultural and livelihood activities. Government agencies responsible for agriculture, hydropower and supplies for urban populations often compete for control of water resources. Therefore, **Water Security** requires good governance and conflict management across sectors and boundaries as well as interventions at the household, community and watershed levels.

Water Security also depends on education and empowerment. Through workshops and training, we help communities use water more efficiently and effectively. Winrock's **Water Security** practice directly advances the United Nation's (UN) Sustainable Development Goal to ensure the availability and sustainable management of water and good sanitation for all. We work to increase the availability of quality information to make evidence-based decisions and help water users at all levels develop sound resource management policies and plans.

Winrock's approach to Water Security includes four key pillars:

1 **Multiple-use water services:** To be more secure, it's important to have a clear picture of a community's many water needs and sources. Through an inclusive assessment process, we work with communities to look at the range of demand for water, including ecosystem services, and the attributes of available water resources.

2 **Governance structures:** Through workshops and training, we develop management capacity at various levels. We ensure that data from the assessment phase is used to support evidence-based decision-making and management.

3 **Sustainable financing:** Resilient infrastructure and good governance require financing. We help structure partnerships and funding mechanisms that serve households, communities, watersheds and the private sector.

4 **Innovative technologies:** We develop solutions based on the needs and available resources of those we serve. Winrock is a leader in the application of innovative technologies that support sustainable community resiliency — from cost-effective renewable energy water pumps to digital platforms that deliver reliable weather data to improved technologies and practices that boost agriculture.

🔍 CASE STUDIES

Rwanda Integrated Water Security Program

As part of the **Rwanda Integrated Water Security Program**, Winrock developed a public-private partnership to rehabilitate and extend a water system that serves over 30,000 people in the country's Eastern Province. Winrock supported cooperatives and introduced water conservation techniques and technologies to help cooperative members grow high-value vegetables and fruits for market. In addition, the program partnered with a nearby national park to develop a reforestation program and reduce deforestation that contributed to severe environmental degradation.

Integrated Water, Sanitation and Hygiene

Under the **Integrated Water, Sanitation and Hygiene** project in Tanzania, Winrock worked closely with local governments and river basin authorities to design and construct multiple-use water services. To make our interventions sustainable, we partnered with more than 95 local entrepreneurs to provide commercial water supply goods and services to support both livelihoods and water infrastructure construction and maintenance. Under this program, Winrock improved water services for over 190,000 Tanzanians and built their capacity to use water more effectively.

Sustainable Water Partnership

In partnership with the U.S. Agency for International Development (USAID), Winrock launched the **Sustainable Water Partnership** (SWP) in 2016. The program aims to mitigate risks and build resiliency through investment in critical water infrastructure. Initiatives undertaken as part of SWP will address challenges to water security through a process of risk assessment, action plan design and implementation of tangible water resource management measures. SWP seeks to increase engagement and improve the planning and governance capacity of people and communities worldwide.

LEARN MORE ABOUT OUR PROJECTS
winrock.org