INDUSTRIAL / COMMUNITY | Andean Highlands, Bolivia

Solar-Powered Water for Six Mountain Villages

An off-grid Aqua Pura installation provides 24/7 clean drinking water to over 2,400 people.

Project Overview

Six villages in the Andean highlands faced seasonal drought and reliance on contaminated surface water. In partnership with WaterAid and the regional government, Aqua Pura deployed a solar-powered atmospheric water generation station that now produces up to 12,000 liters of mineralized drinking water per day — completely off the grid.

Key Outcomes

2,400+	12,000	–74%
People served	Liters / day	Diarrheal disease drop

Before & After

BEFORE	AFTER (with Aqua Pura)
• Average 3.2 km walk to nearest water source	• 24/7 access at central village station
• High prevalence of waterborne illness	• 74% reduction in diarrheal disease (Y1)
• School attendance reduced during dry season	• School attendance up 22%
• Reliance on contaminated surface water	• Zero fossil fuel use — 100% solar

Solution Deployed

Industrial-scale Aqua Pura Atmospheric Water Generation array with 32 kW of solar capacity, on-site mineralization, UV sterilization, and remote monitoring via the Smart Water Management platform. Local technicians trained for ongoing maintenance.

Client Testimonial

> *“Aqua Pura's generators have completely changed water access in our region. Reliable, simple, and built to last.”*
>
> — Maria Lopez, Programs Director — WaterAid