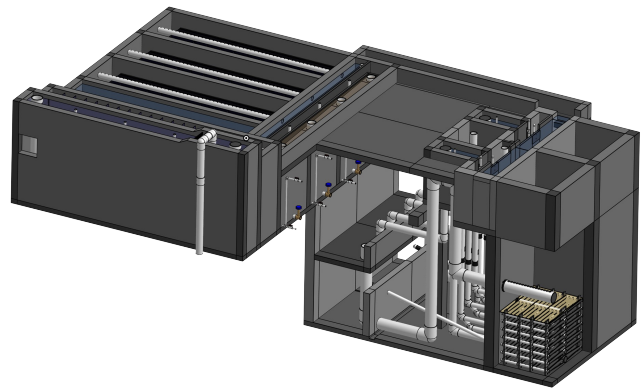




Our Mission

AguaClara Reach promotes global access to safe drinking water through research and education, capacity building with local implementation partners, and design and innovation of community-scale, gravity-powered AguaClara water treatment technologies.



An AguaClara drinking water treatment plant design with a capacity of 24 L/s created by the Automated Infrastructure Design Engine in less than a minute.

Our Drinking Water Treatment Innovations

Chemical Feed Systems

Semi-automated, flow-pacing chemical feed systems.

Flocculators

High-rate & high-efficiency baffle flocculators with a six minute residence time that have uniform velocity gradients and no moving parts.

Plate Settler Modules

Compact plate settler modules with a 15-minute residence time that are fabricated from generic polycarbonate sheets and are located above the floc blanket in the sedimentation tank.

Floc Blankets

Floc blankets with a ten minute residence time that provide stable primary filtration. They reduce settled water turbidity, improve flow distribution to the plate settlers, and clean the sedimentation tank with no moving parts.

Stacked Rapid Sand Filter

Stacked rapid sand filter with a residence time of less than one minute that is self-cleaning without pumps. It is six times more compact than traditional rapid sand filters and does not use any large valves.

Automated Infrastructure Design Engine (AIDE)

An open-source, browser-based digital design tool that creates detailed designs for water treatment plants in the range of 0.5 to 100 L/s. AIDE enables AguaClara Reach to provide customized designs to AguaClara Implementation Partners using input parameters like flow rate. Since AguaClara technology is scalable, AIDE can be modified to create designs for larger facilities when there is a demand for higher flows.

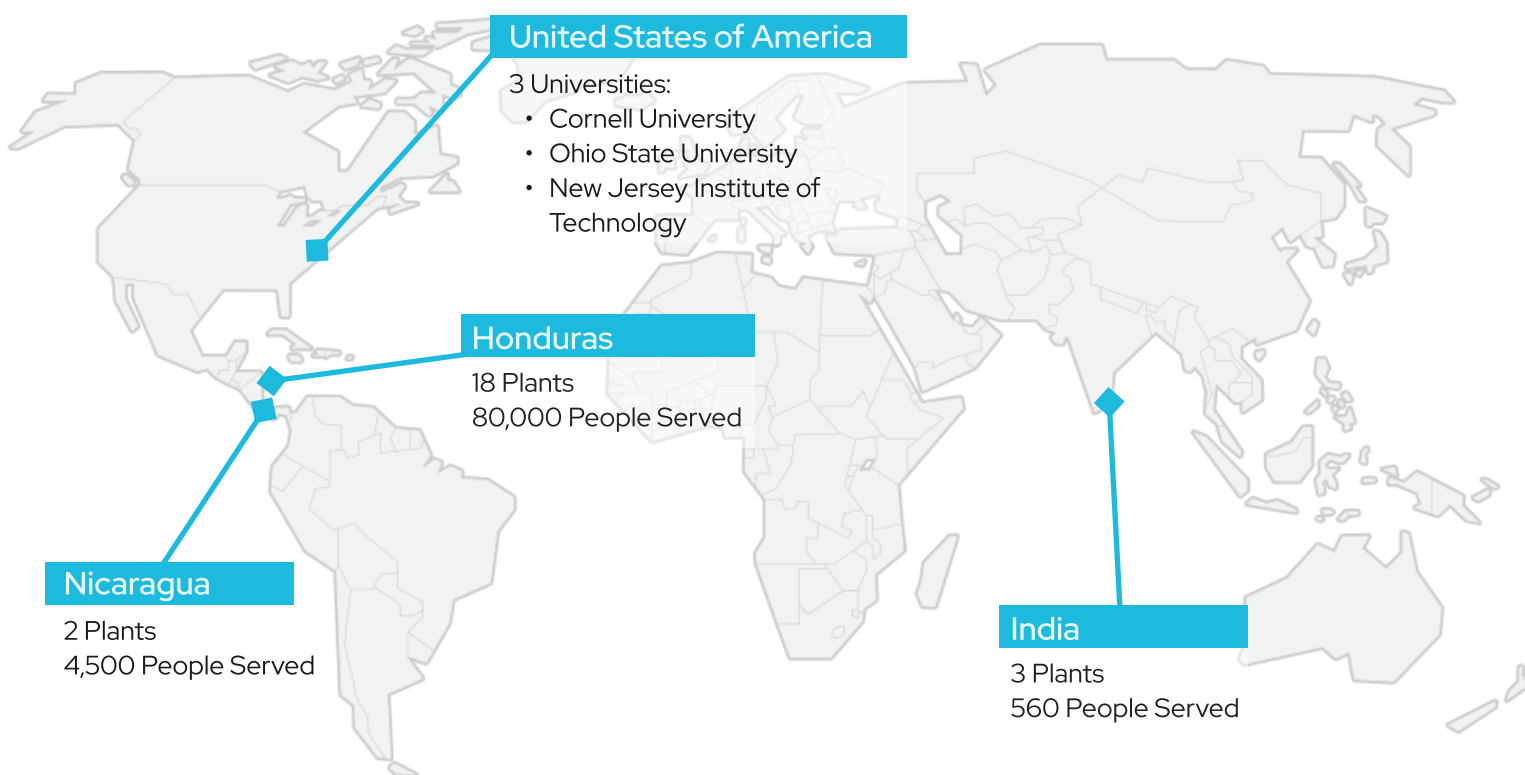
Our Path of Research & Innovation

The AguaClara water treatment technologies are the result of over two decades of research with funding from the National Science Foundation and the Environmental Protection Agency. The Swiss Development Cooperation, the Spanish Cooperation, the communities, and others have financed the capital costs for the 20 AguaClara facilities in Central America. AguaClara facilities have a total installed and continuously operating capacity of 450 L/s.



Plant in Las Vegas, Honduras (70 L/s)

AguaClara Reach and the World



Project Snapshot: Tamara, Honduras (12 L/s)



The Tamara, Honduras AguaClara plant began operation in 2008. The Tamara plant has been regularly updated by the Tamara water board to incorporate the latest AguaClara technologies. For the high-value service of safe drinking water on tap, each household is willing and able to pay \$5 per month because safe tap water reduces other household expenses. The higher tariff transforms formerly unsustainable water supply systems into resilient and sustainable systems. By providing a highly valued service, the water board is able to gradually improve their water infrastructure. They have added a large water storage tank, stacked rapid sand filters, and updated the sedimentation tank to be self-cleaning.