



ENGINEERS WITHOUT BORDERS USA
Minnesota Professional Chapter



2022

DONOR REPORT

Building a better world through engineering projects that empower communities to meet their basic human needs.

April 2023

THANK YOU

A LETTER FROM OUR PRESIDENT

Hello,

So many things to celebrate in 2022, both at home and abroad! And we couldn't have done it without the support of our volunteers and donors!

Let's start with our success aboard. Big news, we were able to travel once again! In May a team of volunteers, including myself, traveled to Guatemala to visit all three of our projects. Our trip started with an amazing community celebration at our completed Patzac school project, continued to our newest project, Santa Elena water project, and concluded with a visit to Rio Azul where school construction was underway. In June another team of volunteers returned to Guatemala to begin work on the Santa Elena water project. The team's work included surveying the site, gathering subsurface data, and interviewing the community. In Peru, our team continued to collaborate with our in-country partners and advanced the progress of their project. The team is excited to return to Peru in June 2023 after being away for four years.

Here at home, our Local Projects team continued to flourish. Made up of professional chapter members and University of Minnesota student chapter members, this team has collaborated on a wide variety of projects benefitting our local Twin Cities community. The team is especially proud of their partnership with Habitat for Humanity.

Our organization has grown, we have built new teams, and we have more support than ever thanks to the generous donations made by our partners at Westwood, Bolton and Menk, and Barr, our sponsors Black & Veatch, Stanley, Stantec, and Burns & McDonnell, and numerous Rotary partners throughout the Midwest.

Thank you to all our donors, our volunteers, and our friends and families that support the work of the EWB Minnesota Professional Chapter.



Matt Wessale

President

Engineers Without Borders - Minnesota Professional Chapter



PATZAC, GUATEMALA

This project replaced an outdated school that lacked windows and was impacted by decades of mild seismic activity and erosion. In May 2022, our Guatemala team visited the site to celebrate the completion with the community. The new school features improved bathrooms, kitchen, retaining wall to prevent erosion, and more classroom space with lots of natural light.

PATZAC SCHOOL



Location: San Andrés Sajcabajá Municipality, Quiché, Guatemala

Project Type: School

Total Project Cost: \$80,000

Status: Completed 2021



RIO AZUL, GUATEMALA

Construction of phase 1 of the Rio Azul school was completed in 2022. Class is now in session! Students now have space to learn and school administrators have a place to conduct their business. Phase 2 construction will begin this summer and consist of 2 classrooms and an athletic court.

RIO AZUL SCHOOL



Location: Rio Azul, Quiché, Guatemala

Project Type: School

Total Project Costs: \$115,000

Status: Phase 1 completed 2022, Phase 2 in progress

Goal: Design and construct a high school for the community that will consist of 7 classrooms, 2 admin rooms, a kitchen, bathroom facility, and athletic court.



SANTA ELENA, GUATEMALA

The community of Santa Elena has an existing water system, but it does not reach all households and where it does it's often plagued with maintenance and capacity issues. EWB-MN is working in partnership with the local government to improve the community's access to clean water. The local government has installed a new well and pump and the EWB-MN project team is tasked with designing and funding an accompanying water distribution system. The EWB-MN team completed an assessment trip summer 2022 and is planning for construction summer 2023.

SANTA ELENA WATER SYSTEM



Location: Santa Elena, Quiché, Guatemala

Project Type: Water Distribution System

Status: Engineering in progress, construction to begin summer 2023

Total Project Costs: \$120,000

Goal: Design and construct a water distribution system to provide a consistent supply of clean water to the community of Santa Elena.



CHUCHURRAS, PERU

The 500-person community in the Pasco Region of Peru has to manually collect unclean water from the local streams and river. These water sources are often scarce during the 3-month dry season. The only remaining flowing streams are contaminated with fecal matter, leading to health issues within the community. Remote construction of the well was completed in fall 2021. Rework continued through 2021 and into 2023. The team is travelling June 2023 (after 4 years away) to complete a significant amount of work and provide flowing water.

CHUCHURRAS WATER SYSTEM



Location: Pasco Region of Peru
Project Type: Water Distribution System

Total Project Costs: \$122,000

Status: Construction in progress

Goal: Provide a year-round source of clean and reliable water to the community. The well and pump will be powered by solar panels to pump groundwater up to a water storage tank at the high point of the community. From there, a gravity distribution pipe network will be used to deliver the water to communal taps. To ensure the quality of the water, a chlorination treatment system will be used.



Beacon Interfaith Housing

Location: St. Paul and Minneapolis, MN

Project Type: Energy audits

Goal: Energy audits will help Beacon Interfaith Housing reduce their carbon footprint and save money on utilities and taxes.

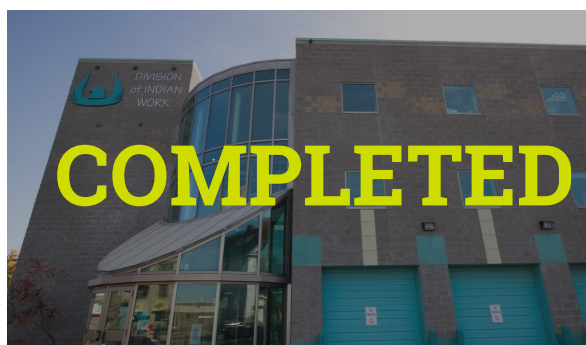
Above image: Beacon Interfaith is a non-profit organization that aims to provide affordable, supportive, and dignified housing to people in the Twin Cities. Our team will work with Beacon to develop and analyze energy audits for many of their properties.

Division of Indian Work

Location: Minneapolis, MN

Project Type: Facility engineering support

Goal: Review of solar panel system to ensure it is working to capacity and design of rainwater catchment system for gardening, and a composting system will be installed.



Above image: Division of Indian Work supports and strengthens urban American Indian people by providing culturally-based education, traditional healing approaches, and leadership development.



Habitat for Humanity

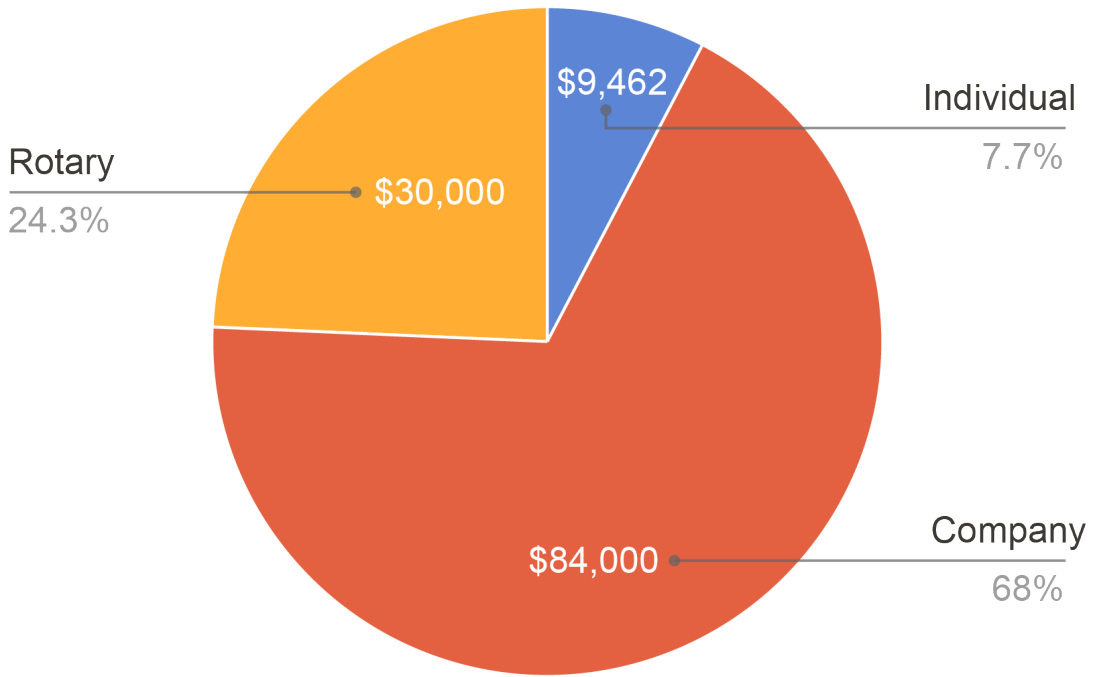
Location: Richfield, MN


Project Type: Community building improvement

Goal: Partner with Habitat for Humanity for a day of construction on an active home build.

Above image: EWB-MN Professional volunteers and EWB-University of MN volunteers join together for a day of action with Habitat for Humanity.

2022 Total Donations



 Fun Fact: In 2022, 68 individual/personal donations were given.

2023 Fundraising Goal: \$150,000

Thank you to our donors!

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We are a group of professional engineers, architects, scientists and others from Minnesota who aim to carry-out EWB-USA's mission. The Minnesota Professional Chapter has project teams implementing solutions for communities in need across the globe while also providing professional mentors for the student chapters in the state.

EWB-USA builds a better world through engineering projects that empower communities to meet their basic human needs and equip leaders to solve the world's most pressing challenges.

Contact Us

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ewb-mn.org

