



# Hydroelectric-Supported Microgrids in Puerto Rico

## The Cooperativa Hidroeléctrica de la Montaña (C. P. Smith)

- The Cooperativa's mission is to provide cost-effective, resilient energy to the residents of the mountainous municipalities of Utuado, Adjuntas, Lares, Maricao and Jayuya.
- The Cooperativa intends to install microgrids with diversified energy technologies to support the ~95,000 residents in its service area, building on the two solar-powered microgrids already operating.

## Green Power Technologies Puerto Rico (Sam Talman)

- GPTPR is a small business incorporated in Puerto Rico focused on developing distributed hydroelectricity throughout the island.
- GPTPR's technology produces renewable, cost-effective, base-load electricity that can reliably support rural and remote communities that are suffering an unduly high energy burden.

The Puerto Rico Hydro Microgrid Partners team aims to address the energy challenges currently faced by residents in mountainous communities in Puerto Rico and provide them a hydroelectric solution that aligns with their resilient energy goals. These last-mile communities are burdened by electricity prices above \$0.25/kWh with frequent outages of sustained duration. The combined community outreach experience of the Cooperativa and the technological expertise of GPTPR will enable this team to incorporate renewable energy in disadvantaged communities in the mountains of Puerto Rico. This initiative will serve as a model for sustainable economic growth in other energy-challenged areas of the island.

In Phase 1: Embark, the team invested in continued community engagement with a renewed focus on the inclusion of hydroelectric technology in the community cooperative microgrids, site visits to potentially viable water resources, and engagement with community, business, academic, federal, and regulatory leadership to sharpen our understanding of the challenges and how a hydro-power microgrid would support local goals.

