

# Stehekin Hydro Modernization



# Phase 1: Controls and Switchgear Modernization

- 2025 – 2027
  - Replace outdated switchgear and D2 generator
  - Install modern digital protective relays
  - Upgrade control systems with remote monitoring
  - Improve safety and outage response time

# Phase 2: Install Battery Energy Storage System

- 2025-2028
  - ~1000 kWh battery system
  - Stores excess hydro energy
  - Supplies power during peak demand or low river flow
  - Reduces diesel runtime and emissions

# Phase 3: Headworks Modernization

- Design to begin 2026
  - Investigate constraints at the Stehekin Hydro intake.
  - Design solutions to increase available water flow during low-flow periods.

# What to Expect

- These upgrades will:
  - Improve reliability and reduce diesel reliance
  - Modernize aging equipment
  - Add limited operational flexibility
- These upgrades will not:
  - Provide unlimited capacity
  - Support unrestricted development

# What's Next

- Conservation and efficiency will be essential
- Rate design and policy tools may be needed
- Collaboration between PUD, County, and community will continue for long-term success