

Technology

Adaptive Hydro™ is a modular and mobile system that electrifies non-powered dams and canal heads without construction or need for storage. Adaptive Hydro™ undercuts Natural Gas, the most competitive and dominant energy source (50+% market share), with **cost of generation below \$0.03/kWh. Adaptive Hydro™ changes the renewable paradigm by:**

- **Eliminating construction in deploying the equipment** and significantly changing the economic positioning of new Hydro.
- **Eliminating up-front carried debt** allowing the amount of MW deployed to be a choice, rather than a necessity, thereby eliminating economic risk from resource variability.
- **Under-deploying the amount of MW and amortizing the debt while stabilizing output:** the standard 25% margin for traditional hydro becomes a 50+% margin for Adaptive Hydro™ on the same river.
- **Producing stable cheap clean power without the need for any storage.**
- **Introducing modularity and mobility as performance insurance** against resource and climate volatility.
- **Is a patented technology** able to adapt to a changing climate and the accompanying resource mobility.

Adaptive Hydro™ can be as easily deployed as **pumped-storage hydropower** making it a hydropower technology truly adaptable to all scenarios.

Value Proposition

Only 2,500 of the ~90,000 dams in the U.S. generate any power due to 1) Unpredictable and varying water resources 2) long and costly lead times 3) dominance of low-cost natural gas. GenH's Adaptive Hydro (MEDES below) eliminates these barriers, resulting in a unique opportunity to reposition hydropower as a highly competitive, rapidly deployable, low cost, and clean energy source. It delivers multi-year stable kWh production without the need for storage, is located near demand or transmission, and on average, is half the kWh cost of Natural Gas. Adaptive Hydro™ benefits dam and canal owners by providing new no cost and no impact revenue opportunities.

