

KINETIC HYDRO



info@kinetic-hydro.com

www.kinetic-hydro.com

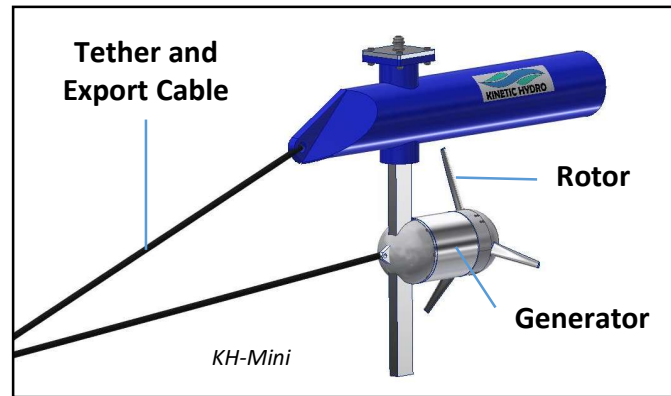
Newsletter 7: Spring 2023

<https://www.linkedin.com/company/kinetic-hydro>

This is the 7th in our regular updates on progress at Kinetic Hydro. We hope that you continue to find these communications interesting, but if you don't want to receive our newsletters please let us know by sending an email to info@kinetic-hydro.com

Product range development

Richard and Donald have completed further work refining our range of turbines and confirming that there is a product-market fit. We are excited to introduce the *KH-Mini*; a small turbine designed for relatively shallow rivers. It can produce up to 9 kWh per day, which is more than the average electricity consumption of a typical UK household. It is ideally suited to off-grid homes, businesses or smallholdings, as well as on-grid consumers seeking to protect themselves from high electricity prices. The *KH-Mini*'s small size and low weight make it practicable to install and maintain by a single person with a minimum of training.



Our larger *KH-3000* is suitable for community-scale mini grids or commercial and industrial customers. Rated at 3kW it can generate up to 72 kWh per day, which is sufficient to power several UK households, bring first-time electricity to entire villages, or to power small and medium sized businesses. It is ideally suited to locations near to moderately large rivers which are off-grid, dependant on fossil fuel generators, or where existing power networks are unreliable.



Energy Catalyst underway with Ugandan visit

Our Innovate UK Energy Catalyst 9 project has started and Richard has visited Uganda to scope out potential pilot project sites on the River Rwizi and Kagera River. Together with our partners at Challenges Worldwide and Practical Action, we held introductory meetings with key Ugandan officials and investigated the suitability of potential project locations. We also got to talk at length with many of the Ugandan companies active in the energy access space. Early site observations were also encouraging, with the river depth in one particular spot was observed to be at least "one hippo deep"; about right for our solution!

Left: Kagera River site visit

Scottish river surveys

Donald and Richard have been busy measuring the flow speed of some beautiful Scottish rivers. The sites that we have planned on the River Ness look ideal for our prototype turbine and we will be developing our plans for testing there as part of the Energy Catalyst 9 project. We are trialing a number of low-cost methods of assessing river speed and depth and the float mounted flowmeter looks promising, providing live and logged digital speed and water depth measurements. However it is still hard to beat the old poo-sticks method for reliability.

Whilst in the north, they took the opportunity to discuss plans with the CEO of Ness Fisheries who are interested to see how trials progress, they don't expect the salmon to be too bothered!



Above: Float mounted speed sensor



Above: Flow speed monitoring on the River Ness

Investment opportunity

Would you or someone you know be interested in investing in our company? We are offering an Advanced Subscription Agreement (ASA) in the next few weeks. Please contact Donald@kinetic-hydro.com for more information.