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This is the 8<sup>th</sup> 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](mailto:info@kinetic-hydro.com)



## All-Energy

Innovate UK invited Kinetic Hydro to attend the All-Energy Conference in Glasgow in May. We displayed our prototype turbine on our stand which attracted many visitors and started conversations about the part river turbines can play in the renewable energy sector.

Anna delivered a pitch explaining how the technology works and its application to the UK and Sub-Saharan African rivers. Donald also took to the stage describing the grant support the business has received from Innovate UK, Innovate UK Edge and Scottish Enterprise.

*Left: On the Innovate UK Stand with the KH-3000 turbine*



*Right: Kevin, Raj and Richard at Space Park Leicester*

## Energy Catalyst 9 update

Richard travelled to the University of Leicester to meet our Energy Catalyst partners at the Space Park. Vardhan Raj Modi has joined the team and will be using earth observation data to identify the best locations to deploy our river turbines in Uganda. This extends previous tools successfully developed by Professor Kevin Tansey's research team. Challenges Uganda, another member of our EC9 consortium have been conducting market research along the river Kagera. They are finding out how our river turbines can support commercial, social and domestic activities in the area.

Within the Energy Catalyst project we are progressing with a prototype of our 'KH-Mini'; a small turbine suited to many moderate size streams found in the UK and across the world. Despite its diminutive size (0.45m rotor diameter) the 'Mini' can produce the annual electricity required by an average UK household.



## Installation Engineering

The design of the power generating part of our turbine is well advanced, but the practicalities of how to install it in a river and to keep it securely anchored has remained at a concept stage. These aspects are just as important as the efficiency of energy production, and we are now developing solutions that are robust and reliable, but also allow the device to be easily retrieved for maintenance. We have come up with solutions that allow deployment and retrieval of the turbine from the riverbank without the need for boats of any description.

*Left: Donald trialling small scale installation models*