

Your partner in engineering and consulting, for your small-hydro projects

A unique and independent expertise, for a complete range of services



Specialist, Responsible, Open, Independent

Mhylab - mini-hydraulics laboratory

From its inception in 1993, Mhylab has offered engineering and consulting services specifically tailored to the needs of small hydroelectric power plants.

Responsible

The experience acquired by Mhylab and its staff allows it to offer a complete range of engineering services in the field of small-hydro. Whatever the state of the project, or the local context, the actions carried out are part of a sustainable development approach.

Open

Cost, performance, and reliability: three criteria on the basis of which Mhylab develops all of its services. Since the quality of a service is based on the combination of various skills, Mhylab has developed privileged technical and scientific partnerships with universities as well as with engineering companies having complementary skills.

Partner

Convinced that the success of a project is linked to the conjunction of skills and to the establishment of a relationship of trust, Mhylab seeks to establish a true partnership relationship with its clients.



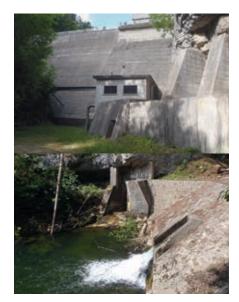
Realization supervision of the Giciye power plant, 2 x 2 MW, Rwanda



Realization supervision of the Rukarara II power plant, 2 x 1 MW, Rwanda



Hydropower mapping of Vanuatu



Study of the ecological flow turbining, Le Day, Switzerland



Design and project follow up for the drinking water turbining of St-Jean, 105 kW, Switzerand

Our services

Mhylab, alone or in partnership, is able to offer a complete range of services in the following areas:

Project planning:

- Preliminary studies: identification of the site and decision as to the advisability of undertaking more in-depth studies.
- Feasibility and preliminary design studies: analysis of the possibilities offered by the site, and technical and economic evaluations in view of realization.
- **Tender design:** development of the chosen solution following the feasibility study, basis of the calls for tenders.
- Invitation to tender, selection of companies and suppliers.

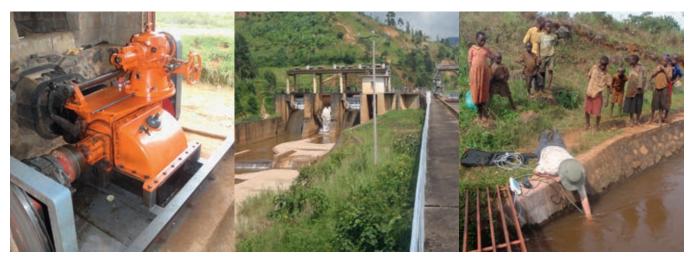
Project implementation:

Project follow-up, design review, assistance with

equipment factory acceptance tests and commissioning of facilities, guaranteeing the quality of the project and the sustainability of the investment.

Expertise and training:

- Site assessment and potential identification studies on a given territory.
- On-site tests, in view of determining the characteristics of an existing system.
- Design of hydro-mechanical devices, such as bypasses, Carnot pressure reducers, etc.
- Punctual advice to operators and project designers.
- Technical expertises.
- · Writing of brochures and technical documents.



Hydropower mapping of Burundi - New sites identification and assessment of the existing power plants



Waste water turbining of Verbier, 365 kW, Switzerland



Workshop acceptance test of the Pont-de-la-Tine turbine, 265 kW, Switzerland



On site acceptance test of As Samra II equipment, 400 kW, Jordan

Mhylab's added value

The processes of overall design, writing of specifications, analysis of tenders, assistance with the acceptance test of equipment and in diagnostic tests, benefit directly from Mhylab's knowledge of hydrodynamic

phenomena in small turbines, acquired through the Research & Development (R&D) activities carried out in its laboratory.

Multipurpose schemes

For more than 20 years, Mhylab has developed a specific know-how in the turbining of networks' waters, be it irrigation, waste- or drinking water.



As Samra I and II wastewater turbining, 2 x 815 kW and 400 kW, Jordan



St-Jean drinking water turbining, 105 kW, Switzerland

Mhylab also is:

Your partner in the design and development of small turbines. An expert laboratory performing model tests for third parties.



Laboratory model of a Saxo turbine