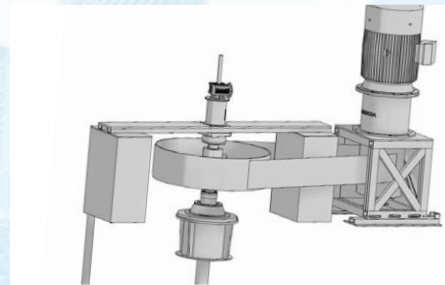
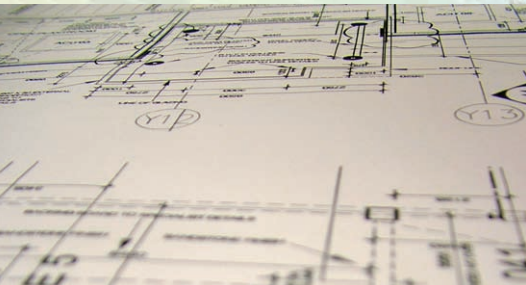


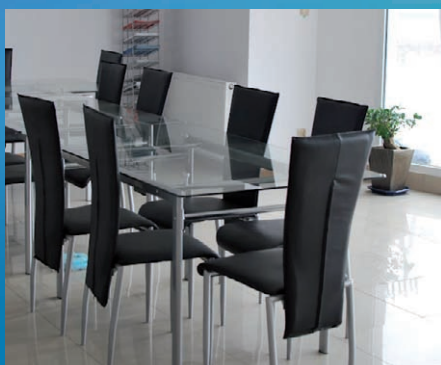
DOCUMENTATION

Hydroergia offers comprehensive preparation of documents related to the plans of the investment implementation in the area of a small hydro power. A skilled team of engineers carries out technical analyses leading to the development of a new, economically supported concept of a hydro power construction. Our company cooperates with specialists in the fields of hydrology, hydrogeology, ichthyology, botany, ornithology, toxicology who carry out necessary expertise which very often is a critical argument in the process of acquiring environmental approval.



We are extensively experienced in the area of the offered services, we have our own design office as well as necessary measuring devices which are very useful for the implementation of each project connected with alternative energy production.

- Hydroergia not only prepares the necessary documents but also deals with comprehensive activities connected with the SHP investment preparation, these include:
 - › construction of a turnkey hydro power,
 - › renovation and modernization of the existing SHP,
 - › technical counseling,
 - › investment counseling, support at the purchase of a location for the investment related to SHP,
 - › design and production of turbines in accordance with individual technical specifications fulfilling client's needs,
 - › production of devices supporting the SHP functioning and other.



The comprehensive offer related to the preparation of documents by Hydroergia includes:

- SHP and fish ladder program-spatial concepts along with the analysis of hydrological data of the project:
 - › investment feasibility study,
 - › selection of parameters of the installed hydro power,
 - › selection of turbines and generators,
 - › description of a power generation system,
 - › selection of trash-rack cleaning machines, technological elements; description of a flow system,
 - › analysis of power generation.
- Project information sheets
- Environmental impact reports
- Aquatic legal surveys
- Water management instructions
- Analysis of energy capacity of watercourse including:
 - › hydrological analysis,
 - › head analysis, turbine selection and selection of parameters to be installed,
 - › analysis of average annual energy production.
- Multi-discipline SHP construction designs including:
 - › -plan of land development and constructions,
 - › -architectural and construction design – hydrotechnical industry,
 - › -architectural and construction design of the SHP technological building,
 - › -cable line construction projects (LV/MV/HV) as well as internal electrical installation.
- Ichthyologic, hydrological and surveying expertise
- SHP technical analysis as well as mechanical and electrical devices;
 - › analysis and evaluation of modernization possibilities,
 - › examination of devices efficiency,
 - › selection and design of a belt transmission and mechanical transmission,
 - › selection of bearings,
 - › selection of seal extending life of a turbine and peripheral devices,
 - › review of a plant composition,
 - › calculation of hydraulic losses in pipelines and inlet canals,
 - › calculation and design of inlet canals, cleaning machines, selection of lifting equipment, gate valves,
 - › consultations at the stage of the SHP building concept and construction plan,
 - › reports on the course of investment,
 - › economic and technical analysis on the SHP construction,
 - › hydrological research and analysis,
 - › support in the power plant purchase or sale process.