

# **MICRO-HYDRO DESIGN MANUAL**

**A guide to small-scale water power schemes**

# Mini Hydro Design Manual

**Chris Elliott**

## Mini Hydro Design Manual:

**Micro-hydro Design Manual** Adam Harvey, Andy Brown, Priyantha Hettiarachi, Allen Inversin, 1993-01 Micro Hydro Design Manual has grown from Intermediate Technology's field experiences with micro hydro installations and covers operation and maintenance commissioning electrical power induction generators electronic controllers management and energy surveys. There is an increasing need in many countries for power supplies to rural areas partly to support industries and partly to provide illumination at night. Government authorities are faced with the very high costs of extending electricity grids. Often micro hydro provides an economic alternative to the grid. This is because independent micro hydro schemes save on the cost of grid transmission lines and because grid extension schemes often have very expensive equipment and staff costs. In contrast micro hydro schemes can be designed and built by local staff and smaller organizations following less strict regulations and using off the shelf components or locally made machinery.

*Planning and Installing Micro-Hydro Systems*  
Chris Elliott, 2014-04-16 An essential addition to the Earthscan Planning and Installing series Planning and Installing Micro Hydro Systems provides vital diagrams, pictures and tables detailing the planning and installing of a micro hydro system including information on the maintenance and economics once an installation is running. The book covers subjects such as measuring head and flow, ecological impacts, scheme layouts, practical advice, calculations and turbine choice. Archimedes screws are also covered in detail as well as the main conventional choices relevant to small sites. Micro hydro refers to hydropower systems with a power rating of 100kW or less. A 100kW system will produce 100 standard units of electricity in one hour. These systems have been popular in some sparsely populated or mountainous countries for a number of years but now new technology, less stringent regulation of grid connected generators and standardised turbine designs are encouraging more widespread interest in micro hydro in the developed world. The renewable energy sector is growing at a remarkable rate and whilst much attention has so far focused on solar and wind technologies, Europe and elsewhere have great potential for generating power from small scale hydroelectric installations. This book is aimed at site owners, designers and consultants who are looking to develop schemes in the micro hydro scale 5 to 100kW although the concepts are applicable to smaller and larger schemes.

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Engineering Guidelines for Planning and Designing Hydroelectric Developments ,1989      **Hydro Review ,1993-08**

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