



# hydropower



## Hydropower

There has been a resurgence of interest in the generation of power from the harnessing of the energy stored in flowing water, led by the awareness of the environmental and commercial benefits of such schemes. This interest has been highlighted in the UK by the Renewable Obligation which requires electricity generators to produce part of this output from renewable resources.

Notwithstanding the environmental benefits of hydropower, the development of hydropower resources require careful planning to obtain the necessary planning permission and regulatory permits to enable schemes to go ahead. Furthermore, testing the viability of schemes, before making significant investment in planning applications and environmental impact assessments, is essential to focus investment in the optimum fashion.

SLR has been actively involved in the hydropower market for a number of years and offer a full range of services from inception to commissioning for hydropower generation projects.

## The Services We Offer

SLR provides the following services to utility companies, developers and landowners that are exploring the potential to develop hydropower schemes :-

- project management;
- feasibility, economic appraisal and site selection;
- screening and scoping;
- design and layout optimisation;
- full environmental impact assessments;
- landscape and visual impact assessments, with supporting visualisations;
- ecological surveys and impact assessments;
- hydrological and hydrogeological impact assessments;
- catchment and resource assessments;
- access and highway impact assessments;
- civil engineering outline and detailed design;
- construction supervision and contract administration;
- option appraisal, budget costing;
- topographical surveys; and
- planning supervision.

The range of technical expertise provided by SLR enables the company to offer most services required for the developments within the hydropower sector. In addition to the activities identified above, transportation, noise, air quality and planning are important skills which are available in-house. Detailed design has been carried out on all aspects of hydropower schemes including pipeline, reinforced concrete weir and powerhouse designs.

SLR has a full range of in-house software to support the above range of services, including visibility and visualisation software and high quality printing facilities for report production. Virtual animations of proposed developments are produced in-house to assist in the design process as well as in consultation with statutory consultees and others. Civil engineering design is carried out using 3-D modeling packages and vehicle tracking software.

To find out more, contact:

Lester Nankivell  
SLR Consulting Limited,  
Greenwood House,  
Rowden Lane,  
Bradford-on-Avon,  
Wiltshire,  
BA15 2AU

T: 01225 309400

F: 01225 309401

[lnankivell@slrconsulting.co.uk](mailto:lnankivell@slrconsulting.co.uk)