

PRINCIPLE

Electrified barriers create in water repellent electric fields thank to pulse generator.

When the fish swim up against the stream of water, electrified barriers have a very good efficiency.

When the fish swim with the stream of water, the barrier should be used as a screen deflection or guidance system. The fish must find a way out nearest the barrier.

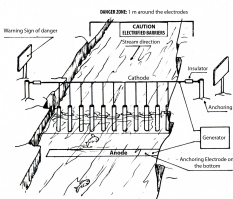
Moreover, the hydraulic conditions are an important factor in the efficiency.

DIFFEENT MODELS

The generator unit delivers pulses with a frequency, a width and amplitude defines according to the characteristics of the place. (see preliminary study paragraph).

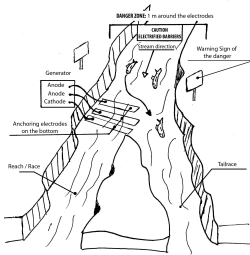
- First type:

Upstream barrier with two electrodes. It is a barrier system with vertical bars, which prevents the fish from swimming upstream to take a channel.



- Second type: Guidance barrier

Three or two horizontal electrodes barrier made for downstream guidance in shallow water. The voltage gradient generated by the electrodes forces the fish swimming in the stream direction to move toward the tailrace.



PRELIMINARY STUDY

To identify problems of efficiency and safety, it is necessary to carry out a preliminary study with a site plan. You also have to specify the following:

- Way of fish swimming: with or against the stream.
- Species.
- The minimum size.
- The conductivity of the water or sending a sample (0.25 s minimum).
- A plan or sketch of the system, with reach and way out of a canal.
- The water velocity
- The river size, width, depth and seasonal variations.
- Are there any floating objects (branches, algae, etc. ...)

Sometimes the visit of the place is required, please contact us for a free quotation.