ANNEX: Guidelines for the applicant of EKOenergy approved hydropower

Draft 9.4.2018

The application (in free format) should include the following information:

1. The hydropower plant
    - Name
    - Owner and contact information
    - Operator of the plant (if not the same as the owner) and contact information
    - Year of construction
    - Fall height
    - Capacity and annual electricity production (on average)
    - Turbine type

2. The permits of the power plant
    - Issuing year of the permit, and according to what law
    - Obligations concerning water level regulation and water discharge included in the permit
    - Obligation to give water (e.g. to by-pass channels), obligation to take care of the fish population (fish passages, any restoration measures, fish stock seeding, other measures or a combination of these), fisheries fees, other obligations
    - Analysis on the present state of fulfilment of the conditions and obligations stated in the permits.

3. The water basin (where the power plant is located)
    - The name of the river basin and the river/tributary
    - The ecological state of the water body affected by the power plant, describing separately the hydro-morphological state
    - The river basin management cooperation group, plan and/or action plan, that is prepared for the river water basin area affected by the plant

4. Dams (constructions, blocks) and clearing (flow-straightening, homogenizing)
    - Dammed, dug or dried-up stream, area (hectares)
    - Reproduction area for migratory fish that has been lost due to damming (upstream) or clearing (downstream)

5. Fish migration and monitoring
    - Has fish moved upstream passing the location of the plant, before the plant was built? A list of relevant fish species.
    - Is there a fish pass or other solution to safeguard the migration of fish upstream and downstream? In case of a fish pass, describe construction year, the type of construction, does it include reproduction/spawning areas, watering (months) and flow (m3).

- Follow-up and reporting of fish migration (attach reports on fish surveys in the power plant impact area)

6. Effects on other, non-fish species communities
    - Description of the affected flora and fauna (e.g. mussels, birds, plants)
    - Description of the central impacts of the hydropower plant to the species communities

7. Flow regulation
    - Description of the natural flow conditions in the water body during annual cycle (dry season – flood season)
    - Report on the regulation capacity / type of the hydropower plant (run-off river, impoundment, pumped-storage)
    - What is the water flow in the river? Cubic meters per second
        Minimum flow
        Annual average flow
        Maximal flow
    - Construction flow of the plant (optimized flow through the turbines)
    - Minimum flow that is discharged trough the plant (minimum flow that is run through the turbines)
    - Is there hydro-peaking caused by the power plant? A report of hydro-peaking
    - A report on the impacts of flow regulation up- and down-stream from the plant in terms of high and low water levels (meters) and flows (cubic meters per second)

8. List of relevant stakeholders, identified by the applicant
E.g. specialist groups, the water basin management group, NGO's

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- Map with the location of the plant in the context of the river and the water basin
- Annotated map of the plant that shows channels for water intake and outflow, and fish migration solutions
- Valid permit(s) for the plant
- Other relevant reports related to flow, fish migration and/or river habitats