



Application form for the approval of a hydropower plant for the sales of EKOenergy-labelled electricity

Please fill and send back to info@ekoenergy.org. You can write to the same email-address if you have questions or comments. We will be happy to help!

General background information:

EKOenergy doesn't label or certify power plants as such. Instead we ecolabel sales and consumption of renewable energy. Only the electricity of approved power plants can be sold as EKOenergy. Only licensed sellers can sell EKOenergy-ecolabelled electricity.

The general requirement is that the operation of the installation complies with all legal requirements, as well as with the requirements of concessions and permits (See also chapter 8.2)

In addition, EKOenergy sets specific environmental requirements with regard to fish migration, water flow and river habitats. Each criterion includes basic performance level and advanced performance level. For the hydropower installation to qualify for EKOenergy, the basic level must be reached within each three criteria. In addition, an advanced performance level must be reached within one of the three criteria.

Special situations and exceptions:

- These additional requirements don't apply with regard to installations located in completely artificial water bodies such as water supply tunnels or irrigation canals.
- Hydropower installations with a capacity of less than 1 MW may be dismissed if the electricity production is minor compared to the adverse environmental impact.
- If the advanced level is reached in two criteria, it is possible to apply for liberation from the third criteria for a justifiable reason. EKOenergy's Secretariat decides on the exemption based on a careful and written consideration of all elements.

Also note: EKOenergy only works with power generation from dams and barriers that are constructed before 1 January 2013. However EKOenergy can accept power plants constructed more recently if there are no new negative impacts on the water body, e.g. replacements of old dams or installations that do not dam the entire flow or the river.

An approval is valid for 5 years and can be renewed.

For the full criteria, see chapter 8.3.C of the text "EKOenergy – network and label", at www.ekoenergy.org

BASIC INFORMATION OF THE POWER PLANT

Name of the hydropower plant _____

Year of construction _____

Fall height _____

Capacity and annual electricity production (on average) _____

Turbine type _____

Construction flow of the plant (optimized flow through the turbines, m³/s) _____

Owner and contact information _____

Operator of the plant (if not the same as the owner) and contact information _____

LOCATION AND TYPE OF POWER PLANT

Please indicate the type the hydropower plant:

- A run-of-river installation, operating with the incoming flow of the river
- An installation in a river reach/mouth of a lake with storage upstream
- An installation in a tunnel system with water intake from storage upstream → *criteria 1 and 3 are applied in downstream river reaches. Application of criterion 2 on a case by case basis.*
- An installation in a water supply tunnel or irrigation canal → *criteria 1-3 are not applied*
- A pumped-storage installation
- Other, describe: _____

Please give basic information about the water basin and the river:

What is the name of the water basin where the power plant is located? _____

What is the name of the river (or tributary)? _____

What is the name of the storage or lake upstream? _____

What is the name of the regulation dam that directs the water flow to the plant? _____

What is the ecological state of the water basin where plant is located? _____

Attachments - The documents indicated with an asterisk (*) are compulsory.

- Map showing the plant's location in the water basin area*
- Map showing the water intake and outflow of the plant in the context of a river, tunnel system and/or canal*

CONCESSIONS AND PERMITS

- Issuing year of the permit(s), and according to what law? _____
- Authority has taken action in order to change the concession or permit conditions, please give details _____

Please describe the content of the permit and present state of fulfilment of its obligations:

	Included in permit (yes / no)	Fulfilled (yes / no)
Water level regulation		
Water discharge		
Water redirection (e.g. to bypass channels)		
Taking care of fish population (fish passages, restoration measures, fish stock seeding, other measures or a combination of these), fisheries fees		
Other obligations		

Attachments

- Valid permit(s) for the power plant*
- Documentation of authority’s action to change the concession or permit conditions to an alternative level

REQUIREMENT 1. FISH MIGRATION

Applied in all cases, except when the dam or barrier is located on a place where no fish could pass for natural and geographical reasons (e.g. a high waterfall) and power plant does not diminish possibilities for fish migration on other river stretches.

	Yes / No / Don't know
Have fish moved downstream passing the location of the plant, before the plant was built and river constructed?	
Have fish moved upstream passing the location of the plant, before the plant was built and river constructed?	
Does the power plant operation diminish possibilities for fish migration on other river stretches ?	

Please name the dams (constructions, barriers) that hinder fish migration _____

Basic level

	Yes / No/ Don't know	Description
Does a fish pass exist?		Year and type of the construction:
Are the fish species using the fish pass known?		Fish species:
Has the amount of fish been verified by monitoring?		Amount of fish:

Attachments, Basic level

- Photograph of the fish pass*
- Fish pass on a map (in context of the hydropower plant)*
- Report on the operation of the fish pass*

Advanced level

Please describe the fish pass

- Water availability (e.g. some months, all year round) _____
- Water flow (m³/s) _____
- Does the fish pass include reproduction/spawning areas? _____

What feedback has been collected and applied to improve the function of the fish pass?

	Feedback collected Yes / No / Don't know	Feedback applied Yes / No / Don't know
Upstream migration routes		
Downstream migration routes		
Water availability and flow		
Directing fish		
Other		

Attachments, Advanced level

- Report(s) on adjustments of the fish pass or other developments of fish migration solutions
- Report(s) on fish surveys in the power plant impact area

REQUIREMENT 2. WATER FLOW

Note: In case of power plants with reservoirs high up in mountains/fells and a tunnel system for intake and outflow of water to power plants, criterion 2 is applied at discharge points downstream of the power plant.

Basic level

What is the average low flow of the river, m³/s? _____

Is there a bypass present (Yes / No/ Don't know)? _____

WATER DISCHARGE	Flow min m ³ /s	Flow max m ³ /s
Trough turbines to lower channel		
In the bypass		
In the fish pass		
Through flood locks		
In other discharge point, where		

In normal operation of the plant, do zero flows occur: (Yes / No/ Don't know)

in the lower channel? _____

in the bypass channel? _____

In the fish pass? _____

Attachments, Basic level

Locations of flow measurements (discharge points) on a map*

Flow curves (m³/s) at discharge points*

Advanced level

Please describe the ecological flow of the river by seasons.

E.g. What method has been used to define the ecological flow? What are the natural flow conditions in the water body during annual cycle (dry season, flood season, etc)? What is the water flow of the river in terms of minimum, maximum and annual average flow (m³/s)? What is the relevance of these flow conditions to the ecosystem?

Please describe the use of ecological flow in plant operation.

E.g. What adjustments in hydro-peaking caused by the power plant are made? How the impacts of flow regulation up- and down-stream from the plant in terms of high and low water levels (meters) and flows (m³/s) are mitigated?

Attachments, Advanced level

- Report on ecological flow
- Report on application of ecological flow in the operation of the plant

REQUIREMENT 3. RIVER HABITATS

Basic level

	Yes / No / Don't know	Please describe
Are there stream habitats preserved, restored or created in the river/tributaries?		
Are the habitats accessible in relation to the plant's location?		
Are the habitats watered all year round?		
Is the total area of the habitats known? In m ³ , or m ³ /per 100 m river stretch		

Please describe the quality and quantity of the stream habitat. Indicate the relevance to the river ecosystem and its flora and fauna (e.g. fish, insects, mussels, birds, plants).

Attachments, Basic level

- Map indicating the accessible habitat locations in the context of the hydropower plant*
- Report(s) on the habitat*

Advanced level

	Yes / No / Don't know	Please describe
Is the function of the habitats monitored?		
Is the feedback from monitoring applied to increase the quality of habitats?		
Is the feedback from monitoring applied to increase the quantity of habitats?		

OVERVIEW (To be filled by EKOenergy's Secretariat)

The installation fulfils all legal requirements (compulsory)

Additional requirement 1: Fish migration

- Basic level accepted Advanced level accepted
 Not applicable
 Rejected

Additional requirement 2: Flow

- Basic level accepted Advanced level accepted
 Not applicable
 Applied in downstream river reaches
 Rejected

Additional requirement 3: Habitats

- Basic level accepted Advanced level accepted
 Applied in downstream river reaches
 Not applicable
 Rejected

Remarks _____

CONCLUSION / DECISION

- The application is accepted
 The application is in process, complementary information requested
 The application is rejected

Remarks _____

On behalf of the EKOenergy secretariat

Date, name, signature