



Session V – Mitigation Measures Hydropower II

- The GEP is not a 'stand alone' objective, but is defined by the mitigation measures compatible with the use.
- There are no mitigation measures that are in principal incompatible with hydropower.
- However, each measure will have a financial cost and an impact on CO₂ emissions.
- Measures need to be justified on the basis of their ecological benefit.
- It was the opinion of the group that there are no mitigation measures that would be necessary at every case/site to meet GEP.



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- It may be possible that a hierarchy of measures could be developed.
- Because there are no measures that are never possible, and no measures that are always necessary, there is a risk to end up at every site having to consider hundreds of individual measures.
- To avoid this guidance could be developed to identify the circumstances in which specific measures would be appropriate.
- The guidance could take the form of scenarios of typical cases (e.g. run of river / reservoir, high /low head, etc.).



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- Guidance needs to consider not only the individual water body scale but also whole catchment or river basin.
- Pre and post scheme construction monitoring is needed to improve understanding of the effectiveness of measures.
- For new modifications (new hydropower schemes) there is greater scope for considering some measures like location and re-profiling littoral zones.
- We need to adopt a planning cycle approach to refine the process of selecting measures and definition of GEP (plan-act-monitor-review).



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General Comment

- Support for the proposal to develop guidance at an EU level for design and operation of fish passes and screens.