



THE INTERNATIONAL ENERGY AGENCY TECHNOLOGY
COLLABORATION PROGRAMME ON HYDROPOWER

IEA Hydropower



Workshop “What research and innovation are needed to tap more hidden hydro opportunities in future?”

Questionnaire for poll during workshop

Please give your opinion on the relevance of the following questions

“1” not important / not agree to “10” very important / fully agree

Part I: General questions regarding the perception of “Hidden Hydro”

- 1) Do you consider hidden hydro as an important contribution for the clean energy transition? **7.7 ± 2.1**
- 2) Do you see a need for research and innovation to tap more hidden hydro opportunities in future? **8.3 ± 1.6**
- 3) Do you think that the hidden potential in non-powered dams is significant? **7.7 ± 2.0**
- 4) Do you think that the hidden potential in drinking and industrial water networks is significant? **6.8 ± 2.1**
- 5) Do you think that the hidden potential water treatment plants is significant? **6.0 ± 1.9**
- 6) Do you think that the hidden potential in irrigation canals is significant? **6.7 ± 1.9**
- 7) Do you think that the hidden potential in navigation canals and ship locks is significant? **5.2 ± 2.0**
- 8) Do you think that the hidden potential at river training works (barriers, ramps) is significant? **5.6 ± 2.1**
- 9) Do you think that the hidden potential by improving performance from existing hydropower is significant? **8.6 ± 1.7**
- 10) Do you think that the required technology for tapping hidden hydro is available? **6.6 ± 2.3**
- 11) Do you agree that tapping of hidden hydro has very low environmental impact? **7.3 ± 2.7**
- 12) Do you think that the use of hidden hydro can be competitive with other renewable sources? **6.7 ± 2.7**



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Part II: Questions regarding developing a questionnaire for R&I in Hidden Hydro

Please give your opinion on the relevance of the following questions respectively how important they are to be included in a questionnaire to send out widely after the workshop

“1” not important to “10” very important

- 13) Is there R&I need for data gathering and for hydropower inventories? **7.6 +2.4/-2.6**
- 14) What are the specific R&I needs in hydroelectric machinery to harvest unused hydropower potential (e.g. low-head applications)? **7.7 ± 2.0**
- 15) Are there site-specific R&I needs? **7.5 ± 2.5**
- 16) Are there R&I needs regarding the sustainability of “Hidden Hydro”? **8.1 +1.9/-2.3**
- 17) What should be addressed by the research and innovation agenda for “Hidden Hydro” instead of overall hydropower **7.0 ± 2.7**
- 18) Which factors of the “Hidden Hydro” value chain are unique and important? **7.6 ± 2.0**
- 19) Which non-technological parts of the hidden hydropower innovation chain have to be addressed? **7.8 +2.2/-2.4**
- 20) What are the R&I case studies for Task 1 “Updating Sustainable Hydropower Inventories” **8.1 + 1.9/-2.6**
- 21) What are the R&I case studies for Task 2 “Improving Performance from Existing Hydropower” **9.0 +1.0/-1.7**
- 22) What are the R&I case studies for Task 3 “Adding Power to “Non-power Dams” and Water Management Facilities” **9.1 +0.9/-1.7**

For answering in the chat:

For developing a Research and Innovation Agenda for Hidden Hydro, which other question would you add to the questionnaire? *Open reply in chat or by email*