



THE INTERNATIONAL ENERGY AGENCY TECHNOLOGY
COLLABORATION PROGRAMME ON HYDROPOWER

IEA Hydropower

IEA TCP Annex XVI



Source : <https://www.ieahydro.org/work-programme/annex-xvi-hidden-hydr>

Hidden and Untapped Hydropower Opportunities on existing infrastructures Workshop

01.07.2021

Prof. C. Münch-Alligné

Annex XVI

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Key facts

- Kick-off of the Annex XVI in December 2018
- Current participants : Switzerland, Japan, USA, Europe, Norway, Malaysia
- New operating agent since January 2021 : Cécile Münch-Alligné

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Main objective : support the development of Hidden Hydro projects by

- Understanding the potential for sustainable “Hidden Hydro” that has not been addressed through traditional approaches to hydropower development planning.
- Identifying processes to prepare inventories of the potential for sustainable “Hidden Hydro” .
- Studying approaches to identify “Hidden Hydro” opportunities through improvements in data gathering, technology innovations, changes in regulation policies and deployment measures.
- Formulating needs for further technology development to maximize the future use of the potential of sustainable hidden hydropower and develop a research and innovation agenda.

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Main tasks

Task 1

Updating Hydropower Inventories

Coordination: Switzerland

Review and identify the processes to update existing hydropower inventories to identify additional opportunities.

Task 2

Improving Performance from Existing Hydropower

Coordination: Japan

Evaluate existing, older hydropower plants for opportunities to improve performance, reduce losses and add power.

Task 3

Adding Power to “Non-power Dams” and Water Management Facilities

Coordination: USA

Identify and evaluate the opportunities of the many existing dams, built for water supply, irrigation, flood control etc., which have potential to add hydropower to their discharge or diversion facilities.

Task 4

Hydropower Technology Research and Innovation in the context of Hidden Hydropower opportunities

Coordination: EU

Summarize and evaluate innovative research and development initiatives that are contributing to the action areas defined in tasks 1 to 3 and develop a future oriented research and innovation agenda.

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Planning

Activities	Planning
Information gathering	2021
Preparation of a White Paper	Mid - 2022
Review and Annex Completion	End 2022
Dissemination	2022

Main outcome : **White paper**

How can you participate ?

Provide case histories and participate to our workshops to share your experiences

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Agenda of the Workshop

- | | | |
|----------------------|--|------------------------------|
| 11:15 – 11:50 | Task 1 – Inventories | Chair: V. Denis, Switzerland |
| 11:55 - 12:35 | Task 2 - Portfolio of cases study on refurbishment projects aiming to improve performance and production of existing HPP | Chair: Y. Miyanaga, Japan |
| 12:40 – 13:20 | Task 3 - Portfolio of cases study on adding Power to “Non-power Dams” and Water Management Facilities, Multi-usage of water. | Chair: C. Hansen, USA |
| 13:25 – 14h15 | Task 4 - Portfolio of research and Innovation on-going projects in the context of Hidden Hydropower opportunities | Chair: T. Schleker, EU |
| 14:15 – 14:30 | Wrap up Workshop | Chair: K. Jorde, IEA |

01./07/2021

IEA - Annex XVI - Workshop - C. Münch-Alligné

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