



Hydropower Services and Climate Change workshop: Adaptation, Resilience and Valuation of Climate Change Services



Introduction by Jorge Damazio and Atle Harby



Hydropower Services and Climate Change workshop: Adaptation, Resilience and Valuation of Climate Change Services

- Annex XII: Services that hydropower can provide on adaptation and resilience (A&R) to climatic change. This activity will cover available and new knowledge on methodologies for assessing the level of A&R provided by hydropower projects.
- Annex IX is proposing a similar activity with the purpose to understand the value of the services that hydropower can provide in minimizing and mitigating the risks of floods and droughts in a changing climate.

Members of Annexes IX and XII, as well as international experts in the workshop topics are invited. The outcome of the workshop will be a communiqué and brief summary of the status on valuing hydropower services and providing climate change adaptation and resilience, and the future work plan of these Annexes.



Hydropower Services and Climate Change workshop: Adaptation, Resilience and Valuation of Climate Change Services

- Understanding how hydropower plant characteristics affect the level of adaptation and resiliency to climatic changes of its services from the viewpoint of business, security and socio-environmental issue
- Investigating the role of hydropower for managing water resources in different countries in today's and future climate scenarios
- Assessing the value that hydropower provides in minimizing or mitigating risks associated with a changing climate
- Investigating how hydropower design and operation can best be adapted to minimize or manage climate change challenges?





Agenda

Annex IX and XII Joint Workshop, Rio 3-5 Dec 2019

Time	Tuesday 3 rd December	Presented by
13:00	Registration and lunch	
14:00	Opening and brief Introduction	Jorge Damazio, CEPEL Atle Harby, SINTEF
14:15	Multiple Use of the Water in the Operation of Brazilian Hydropower Reservoir system	Antonio Borges de Lima, National Water Agency of Brazil (ANA)
14:45	Flood and drought control services in Brazilian hydropower	Paulo Diniz, Brazilian Operator of the National Electricity System
15:15	Discussion	
15:30	Coffee Break	
16:00	Water management and hydropower operations in the US	Nathalie Voisin, PNNL
16:30	Adaptation and resiliency to climatic changes of hydropower flood and drought services	Jorge Damazio, CEPEL
16:45	Hydropower providing flood and drought control	Atle Harby, SINTEF
17:00	IEA Hydro member interventions	
17:30	Coffee Break	
17:45	Discussion and summary	
18:30	End of meeting day one	



Agenda

Time	Wednesday 4th December	Presented by
09:00	External presentation by expert. Question & answers	Maria Ubierna, IHA (video)
09:30	External presentation by expert. Question & answers	Ånund Killingtveit, NTNU (video)
10:00	Discussion	Moderator: Jorge Damazio
10:30	Coffee Break	
11:00	Introduction and discussion: Analyzing flood and drought services provided by hydropower projects considering climate change	Moderator: Jorge Damazio
12:30	Lunch	
13.30	Hydropower and Water Resources in Brazil	Jerson Kelman, COPPE
14:00	Discussion: The role of hydropower for managing water resources in current and future climate	Moderator: Nathalie Voisin
15:00	Coffee Break	
15:30	Introduction and discussion: Assessing the value that hydropower provides in minimising or mitigating floods and droughts.	Moderator: Atle Harby
17:00	End of meeting day two	



Agenda

Time	Thursday 5th December	Presented by
09:00	Summary of discussions from previous days	Moderated by operating agents
09:30	Activities for Annex IX and Annex XII – proposals & discussions	
10:30	Coffee Break	
11:00	Work plan, milestones and deliverables. Discussion and agreements. Structure of work. Collaboration with other organisations	Moderated by operating agents
12:30	Any other business	
13:00	Lunch and end of meeting	



Workshop

