

Maintenance, refurbishment, and repowering of hydroelectric power plants

Piacenza, 29th October 2024 - 11:00 - Room A

The European green deal is driving the energy transition towards a sustainable economy fostering the exploitation of renewable sources. In this ever-changing context a number of factors are posing new challenges and opportunities that call for additional investments in hydropower, although it is considered the most mature technology.

Specifically, the aging fleet requires new maintenance strategies and innovative control techniques to enhance the safety and resilience of assets and equipment. Moreover, the need to operate the hydroelectric facilities more flexibly than designed call for modernization works, including refurbishment and repowering, to cope with the new challenging requirements of the power grid, especially in terms of balancing and ancillary services.

In this workshop, AQUAWATT draws attention to innovative solutions and approaches aimed at preventing component failures and extending the lifetime of assets and electromechanical equipment.



Programma WORKSHOP

11:00	Non-Destructive Testing for hydroelectric equipment
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	E. Tuberosa (President of AIPnD), F. Raggio (vice President of AIPnD)
11:20	Repowering and Refurbishment of ENEL
	Green Power hydroelectric plants
	S. Albertini (ENEL Green Power)
11:40	Repowering and Refurbishment of IREN
	Energia's Hydropower Plants in the Orco
	Valley
	M. Peretto, N. Brizzo (IREN Energia)
12:00	Penstocks surveillance and control methods
	A. Kager (HYDRO SAFETY Engineering)
12:20	Predictive maintenance of electromechanical
	equipment
	A. Sasso (Sasso)
12:40	Rehabilitation of hydro turbine systems and
	new materials for bearing applications
	G. Rizzi (Eurobering)
13:00	chiusura dei lavori