

October 2025

PRESS RELEASE #7

D-HYDR FLEX

#MeetTheD-HYDR OFLEX Demos_No 2

Towards Flexible, Secure, and Sustainable Hydropower

Testing Digital Solutions in a Run-of-River Hydroelectric Power Plant



Bratia, Arges County, Romania – October 2025 — As part of the EU-funded **D-HYDR OFLEX** project, the **Bratia Hydroelectric Power Plant (HPP)** demo is showcasing how digital technologies can transform traditional hydropower infrastructure into a flexible, secure, and sustainable pillar of Europe's energy transition.

Demo Case at a Glance

Location: Bratia, Arges County, Romania

Lead Partners:



INTEX PRIM GREEN ENERGY SRL (INTEX)



ASOCIATIA INOVARE SI DEZVOLTARE IN ENERGIE (IDEA)

Demo Goals:

- Fault detection and predictive maintenance based on advanced data processing
- Energy production forecasting, based on available data related to the power station operation and heterogeneous and exogenous data
- Hybridization of HPP for increased flexibility by facilitating connection to other renewable energy sources via local smart grids and/or VPP



Funded by
the European Union

D-HYDR OFLEX project has received funding from the European Union's HORIZON Research and Innovation Action under Grant agreement No 101122357

Challenges Faced

The demo tackled key barriers such as:

- Lack of flexibility for RES, smart grids or VPP connection
- Improved predictive maintenance for cost reduction purposes
- New market options / strategies

Innovative Solutions Delivered

To overcome these, the team:

- Develop & implement the SCADA update for real-time data connection with D-HYDROFLEX service developers, in order to fully support the validation phase
- Defined the fault detection and predictive maintenance, together with the energy production forecasting, that will provide a much needed improvement in O&M strategy already in place

Impact & Future Outlook

Early results show:

- Increase smart readiness of the HPP for operation and preventive maintenance purposes
- Readiness for hybrid future connection with other RES sources and/or VPP
- Readiness for integration & operation into local smart grids

Voices from the Demo

"The development of D-HYDROFLEX will provide useful tools to INTEX as demo owner for operation and preventive maintenance purposes", said Radu Ivaşcu, Director – INTEX.

To learn more, please visit <https://d-hydroflex.eu/> to explore all demonstration sites and stay updated on the project's progress. Follow us on [LinkedIn](#) and [Twitter](#) for the latest news and insights.

Disclaimer

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About us:


















The D-HYDROFLEX is a project funded by the European Union's HORIZON Research and Innovation Action under the topic HORIZON-CL5-2022-D3-03-08/Development of digital solutions for existing hydropower operation and maintenance and responds to the Call HORIZON-CL5-2022-D3-03/Sustainable, secure and competitive energy supply. The Consortium consists of 18 partners, bringing together 5 power plant operators/energy producers (EDF, TEE, PPC, INTEX, TASGA), 6 European research institutes and universities (CARTIF, PWR, UCL, UOC, UoA, ENERGYLAB) and 7 technology providers (UBI, NOVA, UBE, MINDS, FASADA, IDEA, CINT). D-HYDROFLEX will carry out 5 demonstration campaigns in 7 hydropower plants. D-HYDROFLEX is a 36-month long project started in September 2023.



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D-HYDROFLEX Consortium

	PARTICIPANT NAME	SHORT NAME	COUNTRY CODE	LOGO
1	GIOUMPITEK MELETI SCHEDIASMOS YLOPOIISI KAI POLISI ERGON PLIROFORIKIS ETAIREIA PERIORISMENIS EFTHYNIS	UBI	EL	
2	UBITECH ENERGY	UBE	BE	
3	FUNDACION CARTIF	CARTIF	ES	
4	TASGA RENOVABLES S.L.	TASGA	ES	
5	FUNDACION CENTRO TECNOLOGICO DE EFICIENCIA E SOSTENIBILIDADE ENERGETICA	ENERGYLAB	ES	
6	ELECTRICITE DE FRANCE	EDF	FR	
7	TAURON EKOENERGIA SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	TEE	PL	
8	POLITECHNIKA WROCLAWSKA	PWR	PL	
9	PRZEDSIEBORSTWO ROBOT ELEWACYJNYCH FASADA SP ZOO	FASADA	PL	
10	ASOCIATIA INOVARE SI DEZVOLTARE IN ENERGIE - IDEA	IDEA	RO	
11	INTEX PRIM GREEN ENERGY SRL	INTEX	RO	
12	ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON	UoA	EL	
13	DIMOSIA EPICHEIRISI ILEKTRISMOU ANONYMI ETAIREIA	PPC	EL	
14	METAMIND INNOVATIONS IKE	MINDS	EL	
15	CINTECH SOLUTIONS LTD	CINT	CY	
16	NOVA TELECOMMUNICATIONS & MEDIA SINGLE MEMBER SA	NOVA	EL	
17	THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE	UOC	UK	
18	UNIVERSITY COLLEGE LONDON	UCL	UK	