vgbe/EGP Expert Event

Digitalisation in Hydropower 2026

Experiences from implemented digital solutions

1-2 Oct, 2026, in Milan / Italy

Visit and demonstrate of EGP's digital solutions at Roncovalgrande pumped-storage hydropower plant

Individual success through exchange of knowledge

vgbe/EGP Expert Event Digitalisation in Hydropower 2026

The 9th vgbe Expert Event "Digitalisation in Hydropower 2026" in cooperation with Enel Green Power will provide again a comprehensive overview of important topics regarding digitalisation in hydropower dealing mainly with the results and practical experiences of newly developed and implemented innovative digital measures, tested products and tools from the view of the operators. Topics of the lectures are:

- Asset Management
- Workforce Management
- Advanced Data Analytics
- Inspection & Measurement
- Visualisation (VR, AR, 3D GIS ...)

Based on practical examples, you will gain insights into how to implement and apply digital solutions successfully.

EVENT VENUES

First day: 1 Oct. 2026 | Conference

Klima Hotel Milano Fiere
Via Privata Venezia Giulia, 8
20157 Milan, Italy

Second day: 2 Oct. 2026 | Site visit with stations

Strada Statale 394, km 44.200, 21010 Maccagno con Pino e Veddasca, Province of Varese, Lombardy, Italy

CONFERENCE LANGUAGE AND OFFICE

The conference language is English and the office will be open from 08:00 on 1 October 2026.

EVENING EVENT

On Thursday, 1 October 2026, starting at 19:00, all conference participants are invited to a get-together at the event venue.

CONFERENCE TICKET

Participation *)	Single ticket (1 participant)	Package ticket (3 participants)
vgbe members	€ 850.--	€ 2,200.--
Non-members	€ 1,100.--	€ 2,900.--
Universities, Authorities	€ 400.--	€ 1,000.--

*) Participation fee excluding Italian VAT (22 %)

The participation fees include the conference presentations (after the conference), coffee breaks, lunches, participation in the Evening Dinner event and bus shuttle. All participants of the conference are requested to register online. It is not possible to accept credit cards or currency on-site at the conference office.

EXHIBITION AND SPONSORING OPPORTUNITY

Promote your company activities directly in the conference room on 1 October 2026 by booking our exhibition package (€ 450.- excluding Italian VAT, 1 roll-up + own brochure display).

ONLINE REGISTRATION

Registration

vgbe energy e.V.
Deilbachtal 173
45257 Essen, Germany
Mr. Jens Paluszkiewicz
t +49 201 8128-202
e vgbe-digi-hpp@vgbe.energy

Have direct access to the event website.

PRIVACY POLICY & GENERAL TERMS

Detailed information on data protection as well as the general terms and conditions can be found here: https://t1p.de/vgbe-vsAGBen

MEDIAPARTNER AND COOPERATION

ENERGETYKA WODNA

HYDRO zek INTERNATIONAL

vgbe/EGP Expert Event
Digitalisation in Hydropower 2026

Enhanced digital controls can boost hydropower performance, cut costs, and optimise asset management. These systems aid decision-making and enhance operational efficiency, which is crucial as many hydropower plants require refurbishment and modernisation in the coming years. Based on practical examples you will gain insights into how digital solutions are already successfully implemented and applied. As a valuable complement to the lectures, on October 2nd all participants are invited to visit the Roncovalgrande pumped-storage hydropower plant where EGP will present implemented and currently tested digitalisation solutions.

The impressive pumped-storage hydropower plant is located on Lake Maggiore, in Maccagno (province of Varese), close to the Swiss border. With an installed capacity of 1,040 MW, it is the second-largest hydropower plant in Italy and one of the largest in Europe. It was built in a cavern entirely excavated within the mountain, with an access tunnel approximately 220 meters long. The plant is a pumped-storage facility that exploits the elevation difference between Lake Maggiore and Lake Delio - of glacial origin - located about 700 meters higher. The station consists of eight generation and pumping ternary units. The Delio reservoir stores water pumped from Lake Maggiore, which is then released through the penstocks during periods of high electricity demand to generate power.

The Expert Event will bring together experts from leading operator and manufacturer companies as well as related stakeholders to discuss challenges and opportunities for the operation of hydropower fleets accruing from digital transformation.

PROGRAMME in MILAN

CEST	THURSDAY, 1 OCTOBER 2026
09:30	Welcome and opening of the vgbe/EGP Expert Event *I. Pescador Chamorro, Head of Global Hydro at Enel Green Power* Current activities of vgbe in the field of hydropower *M. Bachhiesl, vgbe energy*
10:20	**SESSION 1** Lecture 1 Early detection of machine condition changes in a 90 MW pump turbine using a digital twin based predictive maintenance approach *A. Rüegg, GradeSens SA* Lecture 2 Predictive maintenance for Pumped-Storage Hydropower: Turning data into operational confidence *T. Zufferey, L. Mayencourt, HYDRO Exploitation SA* Lecture 3 Implementing plant digital Twin in hydropower: Lessons learned and value delivered *E. Parkinson, ANDRITZ Hydro AG*
12:00	**Lunch**
13:30	**SESSION 2** Lecture 4 Renewable power plants operation and performance management system *M. Irgat, A. C. Sahin, Enerjisa Üretim* Lecture 5 Data-driven monitoring and troubleshooting for hydropower operations *O. Kurt, Visplore* Lecture 6 Lean dam digitalization: Efficient vision-based monitoring for hydropower assets *M. Lany, AIMsight SA*

CEST	THURSDAY, 1 OCTOBER 2026
15:00	Coffee Break
15:40	**SESSION 3** Lecture 7 From turbines to trends: Insights from hydropower data *A. L. Theiss, Axpo Services AG* Lecture 8 HydroAssist - AI assistant for hydropower maintenance *S. T. Kandukuri, Norce* Lecture 9 Digitalisation in hydropower: Condition monitoring experiences and operational use cases with the SCIENT system *F. Bortoluzzi, ENGIE Brasil Energia* Lecture 10 The transition from diver-based to digital underwater Inspection *B. Hollauf, VERBUND Hydro Power GmbH*
17:30	Outlook for the site visit to the Roncovalgrande Pumped-Storage Hydropower Plant *M. Cappicciola, Enel Green Power*
17:50	Closing words
19:00	Evening Dinner and Get-Together at Klima Hotel Milano Fiere

Site visit and demonstration of the Roncovalgrande Pumped-Storage Hydropower Plant operated by EGP

On the second day of the Expert Event, EGP will present digital solutions in the Roncovalgrande Pumped-Storage Hydropower Plant in Maccagno con Pino e Veddasca, Province of Varese. Participants can take part in a guided tour, and experts will be on hand to answer questions and be available for further in-depth technical discussions.

Please note: Sturdy shoes are required for the plant visit!

PROGRAMME at Roncovalgrande Pumped-Storage Hydropower Plant

CEST	FRIDAY, 2 OCTOBER 2026
07:15	Departure via bus shuttle to EGP´s Roncoval-grande Pumped-Storage Hydropower Plant
09:00	Welcome and grouping of participants for visit of stations Guided visit to the demonstration stations
12:30	Networking Snacks, soft drinks, coffee Self-guided visit to the demonstration stations Get in touch with the experts for knowledge exchange at the stations (Open House)
15:00	End of visit
15:00 – 16:30	Departure by shuttle bus to Milan-Malpensa Airport or Klima Hotel Miano Fiere

In cooperation with

enel Green Power

Demonstration stations with live demos and user stories

At the Roncovalgrande pumped-storage hydropower plant, Enel Green Power will present **8–12 stations showcasing digital solutions and measures**. Each station will feature a presentation of **approximately 15 minutes, including a live demo or user story**. Experts will explain the implementation and experiences so far, and participants will have the opportunity to ask questions and engage in discussion.

Potential topics for the stations may include:

- Solutions for a Safer & Healthier Workplace
- Digital Asset Management
- Mobile Remote Operations
- Experiences with VR / AR
- Digital Mobile Workforce Management
- Advanced Condition Monitoring
- Dam Safety Monitoring and Surveillance
- ...