



Dams and Sustainability

WEBINAR #3

GHG Emissions from Dams & Reservoirs

November 20, 2025

1pm - 3pm (CET)

Free event

To pre-register, please send an email with your name, country and affiliation to dams.sustainability@icold-cigb.org

(a ZOOM registration link will be sent to your email address prior to the event)



Technical support from the Spanish
National Committee on Large Dams

In 2023, the *International Commission on Large Dams (ICOLD)* launched the *Dams and Sustainability (D&S)* initiative, which brings together the efforts of several technical committees. The main objective of the D&S initiative is to raise awareness among dam professionals about the need to improve the sustainability and life cycle thinking of existing and new dams. It also seeks to investigate appropriate tools and methodologies for assessing the social, economic and environmental sustainability of dams and reservoirs.

To date, the ICOLD D&S group has organised *two Webinars*. The first took place in May 2024 and presented the main sustainability goals and objectives of this new ICOLD initiative. A second Webinar was held in May 2025, introducing Life Cycle Sustainability Assessment (LCSA) methods and providing examples from other sectors that could be appropriate for assessing the sustainability of dams and reservoirs. Both webinars are [available here](#).

This *Webinar #3* will focus on calculating greenhouse gas (GHG) emissions throughout the life cycle of dams. GHG emissions are the main cause of global climate change. Researching and calculating GHG emissions is essential to identifying potential areas for emissions reduction in all human activities, including dams. ICOLD has invited a distinguished group of speakers to present this important topic, beginning with a general introduction and then moving on to more specific aspects related to GHG emissions associated with dams and reservoirs.

Program

- Introduction
Devendra Sharma (President of ICOLD)
- Webinar presentation
Francisco Ortega (Fosce, ICOLD TC-T)
- GHG emissions and climate change
Steve Usher (Aqua-Media Int., ICOLD TC-D)
- GHG Protocol and the LSR Standard
Alejandra Bosch (GHG Protocol)
- G-res tool: current methodology and future development
Yves Prairie (Université du Québec à Montréal)
- Life-cycle GHG emissions of dams
Marco Conrad (Afry, ICOLD TC-D)
- Methodology for accounting GHG emissions in the construction of dams
Francisco Ortega (Fosce, ICOLD TC-T)
- Collecting data of GHG emissions from reservoirs: how relevant it is and how efficient it can be!
Maud Demarty (Aqua-Consult, ICOLD TC-Y)
- From wastewater to reservoirs: Unlocking the potential of methane capture
Eliana Bohórquez-Bedoya (Bluemethane)
- Decision-making system for calculating the life cycle carbon footprint of dams in China
Chunna Liu (IWHR)
- Q&A Session
Moderation by
Steve Usher (HP&D)