

MTN HIDRO

BROCHURE 2025

About us:

MTNhidro is a consulting company specializing in Water Resources, with expertise in the fields of hydrology, hydraulics, hydrogeology, and climate change. Our mission is to meet the specific needs of our clients, with a strong commitment to achieving their objectives, grounded in scientific rigor and a vision of sustainability. We focus on creating value for projects and all stakeholders involved, through a multidisciplinary approach that integrates Earth sciences and applied engineering.



Our Services

Hydrology:

The study of the variables that control the hydrological cycle enables us to understand the environments in which we live and operate.

- Analysis of rainfall, streamflow, temperature, and evapotranspiration series.
- Extreme event analysis.
- Water availability and water balance studies.

Hydraulics:

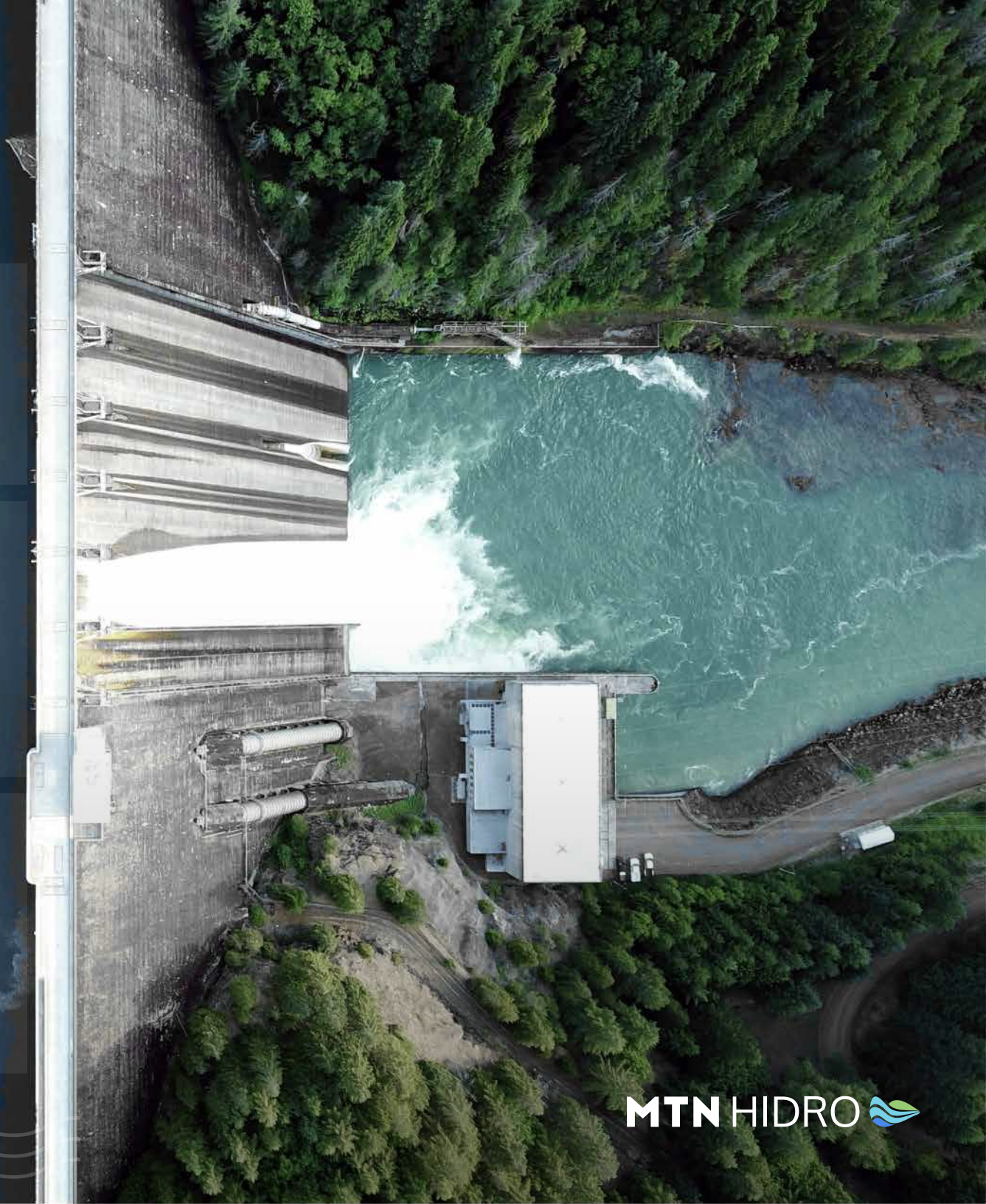
The movement of water in natural or artificial environments follows hydraulic principles, which allow us to describe transport phenomena, storage, and impacts on the surrounding environment.

- Design and sizing of hydraulic works.
- Fluvial mechanics, scour, and sediment transport.
- Flood studies.
- Flood risk and stormwater management.

Hydrogeology:

Groundwater resources are a vital source of water for communities, industry, and the environment. Their study requires detailed conceptualization of their processes, as they occur out of direct sight..

- Hydrogeological characterization and conceptual model development.
- Flow and transport studies.
- Variable density and saltwater intrusion studies.
- Design and assessment of water extraction and recharge systems.



Our Services

Climate Change:

Incorporating the effects of climate change is essential for updating our understanding of the environment in a changing context, enabling timely adaptation actions.

- Analysis of future climate change scenarios and their effects on local climate variables and the hydrological cycle.
- Studies under non-stationary hydrometeorological conditions.

Environment:

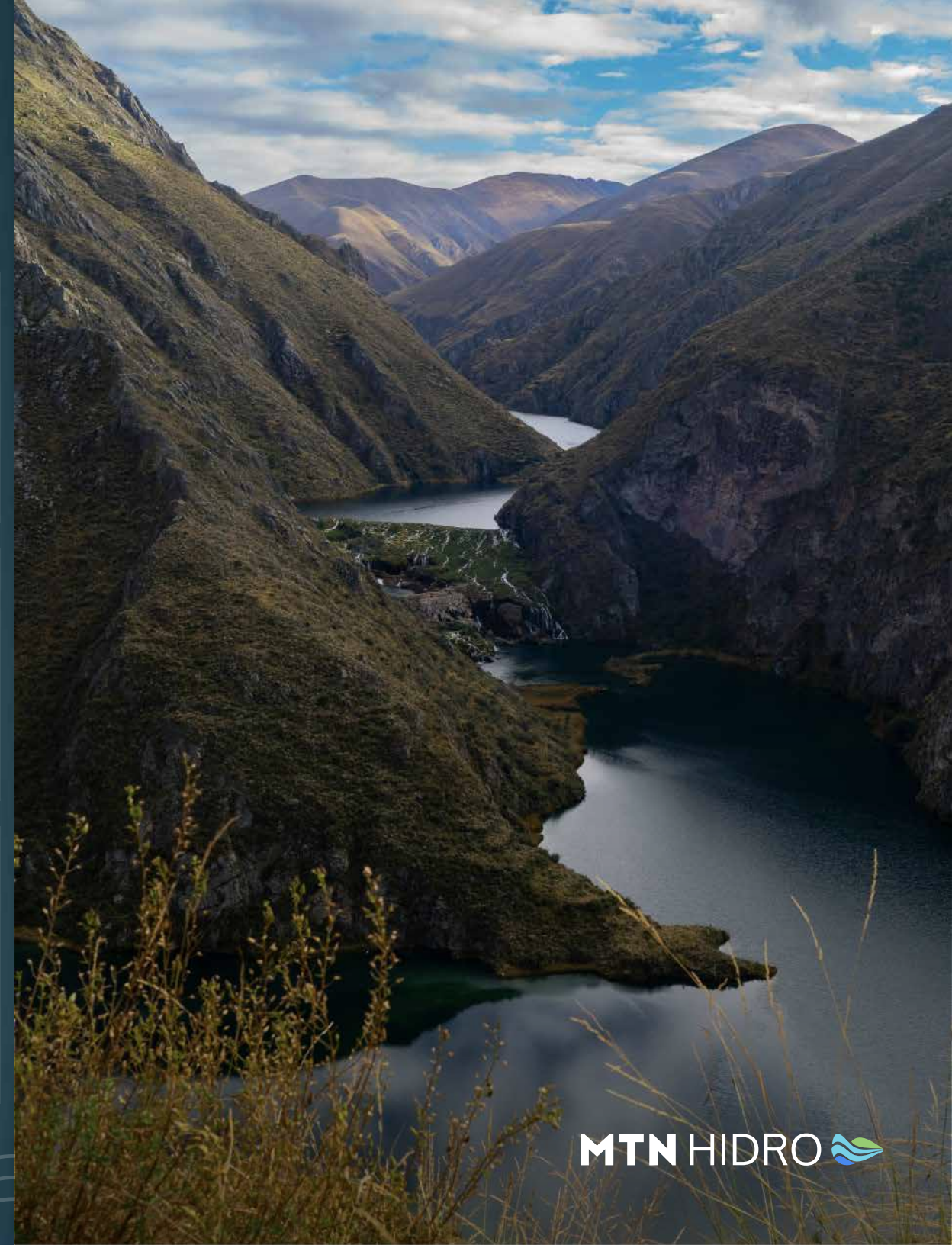
Studying the interaction of water resources with the environment is key to achieving sustainable development, contributing to the success of projects.

- Development of studies for the environmental assessment of water resources.
- Regulatory compliance and permitting.
- Baseline studies and environmental permitting.

Numerical Modelling:

The development of numerical models involves representing environmental systems through physical, mathematical, and computational approaches, enabling the evaluation of multiple scenarios.

- Watershed modeling.
- Hydrogeological modeling.
- Hydraulic modeling of stream channels.




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WATER RESOURCES CONSULTING

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