



MONITORING AND FORECASTING

In all aspects of water resources management, monitoring and forecasting are critical services that help managers make informed, analytical decisions.

Our advanced hydrometeorological monitoring and hydrologic forecasting services provide actionable information for flood warning, hydropower operations, water allocation, agriculture operations, and more. These services can help you make critical water resources decisions based on real-time conditions, as well as conditions that are hours, days, weeks, or seasons into the future.

We provide both on-site forecast systems built on the latest science and technology, data sources, analysis, and product delivery methods as well as web-based subscription services that are customized based on your needs, data availability, and location.

**Providing timely and
relevant information
about current
and future water
resources conditions**





FEATURED PROJECT

Applied Statistical Analysis Techniques for Hydropower Generation and Runoff

Client: CEATI International

Country: Canada

Sector: Hydropower

Related Services: Planning and Allocation, River Basin Operations



This project involved a review of available applied statistical methods and techniques that could be used to improve the efficiency of hydropower generation. The study reviewed how methods were implemented by hydropower operators across the industry. The report described the benefits, limitations, and applicability of a range of methods. Practical and detailed working examples using modern software and techniques were further provided for selected methods.

ADDITIONAL MONITORING AND FORECASTING SERVICES

Designing, improving, installing, and maintaining monitoring networks of precipitation, temperature, and streamflow gauges

Gathering, storing, and manipulating field-collected and remotely sensed data

Integrating existing data sources, models, and operational systems with new data and technologies to deliver enhanced water resources information

Providing training, documentation, manuals, procedures, and monitoring and evaluation frameworks



Center for Water Resources

rti.org/cwr
cwr@rti.org