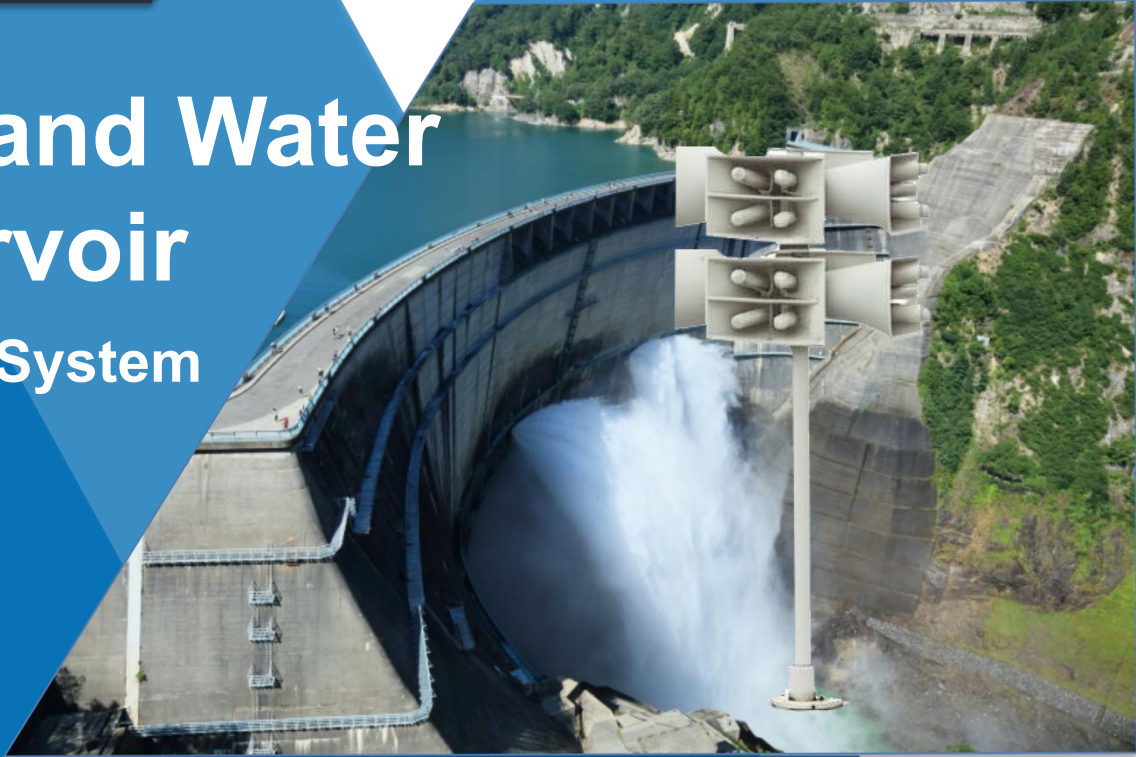


# Dam and Water Reservoir

## Warning System



**Delivers notifications through visual signals and sound alarms.**



**Ensures response within the pre-set time of operational personnel.**



**Enables automatic activation of electronic sirens and notifications.**



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# Why to build dam and water reservoir warning systems?

Dams and water reservoirs play a crucial role in flood and landslide control, water supply management, irrigation, and similar functions. They are constructed as safe structures that meet strict regulatory standards. Nevertheless, they remain vulnerable to natural disasters or human activities that may cause structural damage, posing risks to people, property, and the environment within the potential inundation area.



With the implementation of advanced monitoring, warning, and notification systems around dams and water reservoirs, a reliable response can be ensured in the event of an emergency.

1

## The Monitoring System and Sensor Network

By leveraging at least three different types of sensors, the monitoring system ensures timely detection of dam damage while maximizing reliability and preventing false alarms.

2

## The Control Center

1. Automatically activates the necessary warning and notification functions when critical values are detected in the monitoring system.
2. Guarantees tight security thanks to 100 % secure back-up technology.

3

## Communication Infrastructure

1. Maintains reliable data exchange between the control centre and the various components of the warning system.
2. Supports interoperability with the national warning system for coordinated response.

4

## The Electronic Siren

1. Delivers powerful acoustic pressure over significant distances.
2. Guarantees accurate and fully intelligible live voice output.
3. Demonstrate their high reliability due to:
  - Ensures full operability even in the event of a power failure.
  - Guarantees reliable performance in extreme environments.
  - Equipped with advanced self-diagnostic functions.
4. Supports multiple power-supply options.
5. Facilitates control centre communications over radio and wired links.

5

## Responsible persons/Responders

1. Notifies users of an emergency situation via phone call or text message.
2. Enables personnel to be urgently summoned to offices or dispatched to rescue operations.





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