Case Study

TECHNOLOG

Flood Level Monitoring

Palmira City, Colombia

- ✓ Flood Prevention
- ✓ Water Resource Management
- ✓ Benefits local community
- ✓ Reduction in operating costs
- ✓ Easy to implement

Project Overview

Aquaoccidente SA ESP is responsible for water and waste water in Palmira City, Colombia, where the El Niño and La Niña phenomenon have resulted in a very dry season. El Niño (the warm phase) and La Niña (the cold phase) are opposite phases of what is known as the El Niño-Southern Oscillation cycle. The deviations from normal surface temperatures have large-scale impacts on ocean processes, global weather and climate. El Niño and La Niña episodes typically last nine to twelve months, but some prolonged events may last for years; the episodes occur every two to seven years.

Aquaoccidente SA ESP, a Technolog customer for over 10 years, wanted to deploy a cost effective solution at three key rivers around the city to avoid local flooding and potential risk to life due to this phenomenon. Our channel partner in Colombia was asked to provide a technical solution.

Key Elements

- Safe, secure and protected from theft
- Transmission of flood / level alarms to a central server for forwarding to operational staff
- Transmission of live data upon an alarm event
- Annual river level data profiles viewed to assess impact on flood defences
- Battery operated for 5 years

Key Outcomes

- **Successful installation of Cello level monitoring system with a submersible 4-20mA gauge transmitter**
- **Risk to life minimised**
- **Reduction in fines**
- **Data accessible to all operators**
- **Practical management of water resources**

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