



# ECOVIE Institutional Rainwater Collection System

## Application:

Indoor Plumbing Water for Toilets

## Project Location:

Georgia Piedmont Technical College

ECOVIE recently installed an educational project involving rainwater collection at Georgia Piedmont Technical College. ECOVIE installed two 2,500 gallon tanks that will collect rainwater from 8,000 square feet of the Dekalb Tech C building at the Clarkston, Ga., campus where the Green Technologies Academy (GTA) is located.

Students in the GTA Program will have the opportunity to gain real world knowledge of HVAC instruments by using signal from the system controller, level indicator and a variety of sensors that will then upload directly to a computer and display the information gathered.

Below is a photo of the control unit for the system, from Rain Harvest Systems, and it will measure the tank level, control pump speed and automatically switch water supply to the city mains when the tanks are empty.



Above ground system



Above ground pump system



Indoor filtration system

### Project Summary:

Roof Square Footage: 8,000

Tank Capacity: 5,000 Gallons

Projected Annual Water Supply: 80,000 Gallons

The school will also be attaching a condensate recovery system to the basins which will drain their extensive refrigeration and HVAC units. Collected water will be used for toilet flushing in the entire C Wing of the building.

Below are photos of the tanks that store the water and the pump that regulates the water distribution throughout the system.