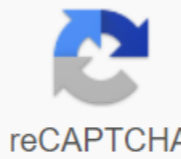


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Go to the main contents Of the main content Go to the main content In light of growing concerns about water scarcity, water costs, and now, water quality as a result of long facility stops, commercial building owners are forced to pay more attention to water management. Water bills and meter readings, which were once thought to be sufficient to manage water consumption, have overshadowed more sophisticated tools and techniques such as IoT sensors (IoT) and advanced data analytics. Whether you're trying to use water more optimally, maintain a consistently healthy water supply, achieve LEED or WELL certification, or anything else, modern water management methods are data-based - data that can only be collected through the IoT water monitoring system. Keep reading to see the different ways in which construction managers apply IoT technology to water-related issues in an attempt to change their operations for the better. IoT water monitoring systems: 4 cases of use 1. Preventing Legionella by monitoring the flow of IoT. The EPA noted that one of the dangers associated with opening buildings after a long closure (e.g. during the COVID-19 pandemic) is the potential presence of Legionella bacteria in the construction of plumbing systems that can lead to disease. Such bacteria are known to increase when the temperature of hot water drops from the recommended temperature of 140 degrees Fahrenheit to warm (usually from 77 degrees to 108 degrees Fahrenheit), and disinfectants (e.g. chlorine) dissipate due to inactivity in the pipes for a long period of time (this can be days, weeks or months, depending on the building). Placing IoT sensors on water pipes is one way to fight construction managers with Legionella. By monitoring your building's water and plumbing systems, you will get a real-time analysis of which systems are used and where. If you have an idea of normalized water use in your building, you can start mapped areas of inactivity, identifying places where plumbing has been dormant and Legionella Bacteria could be a potential problem. This system allows you to be active about finding and solving a problem rather than doing water quality testing around the world unnecessarily, or waiting to see if the problem crops later. (Note that sensors that actually test for Legionella are rare.) Talk to us about your case of use to monitor water- we can help! 2. Maintain a continuously healthy water supply with the IoT water quality monitoring system. In addition to Legionella's problems associated with reopening after a long closure, maintaining a healthy supply of drinking water crucial for passengers. Some building managers take samples and test water once or twice a year, but this method only gives a snapshot of water quality at one point. The main contaminant's agent can develop after testing and for months, making tenants vulnerable to disease. The IoT water quality monitoring system has constantly informed you about the quality of water in your building. The cloudiness sensors placed inside the tubes measure the purity of the water (whether murky or opaque) with the help of light rays. High turbidity indicates the presence of particles, and is a sign that your water should be tested. Constant monitoring of water quality gives you an idea of the normal level of turbidity of your building; data will be shown immediately when conditions change. If this happens, you can either use another sensor to detect specific pollutants, or send a sample of water for testing in the lab. 3. Detect and correct wasteful leaks by monitoring the flow. Every year, millions of gallons of water are consumed due to leakage, meter errors and operational deficiencies. Many facility managers rely on regular pipe inspections to detect failures, but this could mean the leak has not been caught in the months since it began. IoT water flow sensors can help identify leaks immediately by measuring the flow of water through the pipe and its rate of change. When sensor data shows a change in normal speed, it can be an indicator of a leak of a pipe or another operating malfunction, giving building managers the ability to solve problems before too much water is wasted. IoT sensors can also help identify the source of water waste. One of our clients, the owner of several indoor shopping malls, had to know why one of its malls has higher water bills than the rest. Using detailed IoT data collection capabilities, we were able to determine how, when and where water is consumed up to 15-minute intervals. Data soon showed that one water-cooled fast food restaurant was constantly circulating water unnecessarily, spending tens of thousands of gallons a day. The faulty thermostat was quickly fixed, resulting in an estimated annual savings of more than \$117,000. This diagram shows the daily consumption of water in the mall before the problem was identified after a mechanical problem was fixed. 4. Achieving LEED and/or WELL certification. An increasing number of commercial buildings are being certified by LEED and/or WELL as part of their Sustainable Development Goals and Healthy Construction Initiatives. (You can read more about LEED and WELL, and the benefits for commercial buildings here.) LEED certification focuses on sustainability-related areas, while WELL focuses on building features that affect the health and well-being of residents. The pursuit of one or both of these certificates benefits only the environment and your people, but also saves money by reducing inefficiency. Both certifications have water-related standards that can be addressed by the IoT water monitoring system. LEED encourages submeter water The goal of detecting water use and monitoring consumption in real time; it also awards points for the introduction of systems, water parks both indoors and outdoors. WELL has water quality standards that aim to help buildings conserve water while preserving water and improve the quality of water to ensure that it is safe for residents. The IoT water quality monitoring system can help you achieve all relevant water-related standards for both LEED and WELL, whether you have an existing building or new construction. Preliminary operations using an intelligent water quality monitoring system using IoT Advanced IoT analytics platforms such as ours at IotaComm will help you collect, analyze, and operate based on your building's performance information. Our IoT sensors are capable of capturing a wide range of granular building data, from water use to energy consumption and air quality that can be studied over time. As a result, you can see the impact of your efforts to improve, from the days after implementation to many years later. If you have the water management goal you are trying to achieve, IotaComm can get you up and running with a real-time water monitoring system that fits your needs. Our IoT-based system gives you almost real-time feedback around the desired measurements. Once the data is collected by the sensors, it is transmitted over the network and to the cloud, where you can access it on your computer at any time. Our system can also generate text alerts when the water characteristics you're trying to measure fall beyond your predetermined parameters, so you can quickly solve potential problems. Contact us today and let's get started! 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