



A Building Clouds Solution

Kansas City Smart Sustainability Program Capitalizes on Smart Technology

The Nation's Smartest Fire Station Opens in Kansas City, Missouri

When the City of Kansas City Missouri was ready to build its first new fire station in nearly a decade, they did so with firefighter safety and environmental sustainability at the forefront.

The new station is a pilot in the KC Smart Sustainability Program, part of their Emerging Technology Initiative for Smart Cities. Fire Station 15 meets their requirements of “capitalizing on smart technology in order to elevate sustainability and human health outcomes appropriate to a building’s operation, location and budget”.



Building Clouds partnered with Verdicity, the marketplace for smart buildings, to provide the necessary hardware, software, and technical expertise to make this project a reality. The building is outfitted with IoT sensor technology intended to reduce the firefighters’ exposure to harmful airborne carcinogens which can be released during a fire by continuously monitoring the indoor environment and apparatus bay.

Sustainability is further achieved through control of state-of-the-art HVAC systems, monitoring energy usage, and water reclamation systems. The Smart Building System provides a unified way for occupants and City Administrators to view and control the station’s building conditions from a secure online App.

Building Clouds designed, assembled, and delivered a turn-key “Parts & Smarts” solution complete with Internet connectivity. Installation support, software development, and systems commissioning were all completed remotely from our office in California. Ongoing remote monitoring and support through our BMS Assurance Program ensures the fire station’s systems are performing as designed.

Fire Fighter Safety, Sustainability, and Healthy Living Conditions Were the Top Priority

The new station has drive-through engine bays, living quarters for two captains and 10 firefighters, a kitchen, dining area, fitness center, restrooms and showers. A decontamination area adjacent to the App Bay helps to ensure contaminants are not introduced into the living spaces.

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