

Case Studies

Improved Chelsea Market – [Water Conservation Case Study](#)

Architect: Jeff Vandeberg

Water Consultant: Ashokan Water Services

Building Manager: Jones Lange LaSalle

Conservation Challenge:

Chelsea Market, originally the site of the National Biscuit Company, is a food and retail marketplace, office building, and television production facility owned by Alphabet, Inc., located in the heart of Manhattan's Meatpacking District. The building's management selected Ashokan to create a solution to recover the cost of tenant's water use and invoice tenants for their water consumption. In addition, insights gained about water consumption patterns throughout the building would help improve conservation and address leaks as they occur.

Conservation Solution:

One hundred forty-eight tenant and water end-use areas were identified where water consumption could be monitored. Sub-meters were installed in each use area, and data loggers capture data hourly. Collected information is then transmitted to AquaSync's cloud platform, where tenants can access their water use via any mobile device. Each tenant's portal shows their water consumption over a daily, weekly, monthly and annual period, with tenants notified immediately when a leak occurs.

Conservation Impact:

The sub-meter, transmitter, and portal solution is easy to use and allows tenants and building management to more precisely forecast water consumption and realistically budget for future expenses. In addition, the water footprint for the building is significantly reduced due to real-time accurately reported leaks. Tenants also value the transparency provided in tracking their own water consumption. In 2020, Chelsea Market detected more than 141 leaks through meter monitoring and timely discovery of malfunctions, the most important component of water conservation in commercial buildings.

Installed Products:

Elster evQ4 water meter

Badger High Resolution Encoded (HRE) water meter

Metron Spectrum water meter

AquaSync AWS – AMR – RT transmitter and data logger

