Using **Smart Meters** to Promote **Residential Water Efficiency** and **Conservation**

Smart water meters provide new opportunities for educational outreach materials designed to promote water efficiency and conservation. This poster summarizes the results from a deployment of the Badger Meter BEACON AMA® platform with the City of Sacramento Department of Utilities (Sacramento CA). The results show that sending personalized Water Focus Reports can be an effective tool for managing demand, and that customers are responsive to a web-based portal with an embedded leak-detection algorithm.

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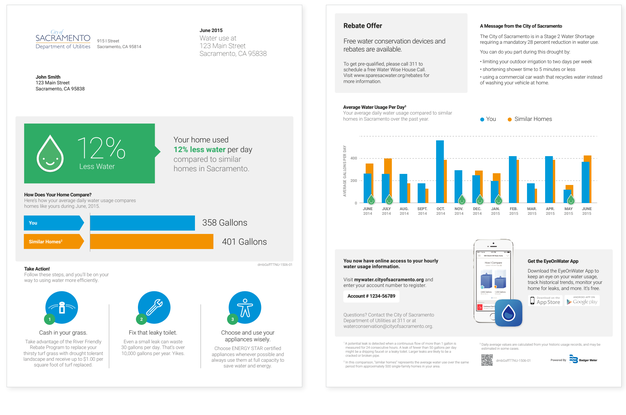
Badger Meter

California State University SAN MARCOS

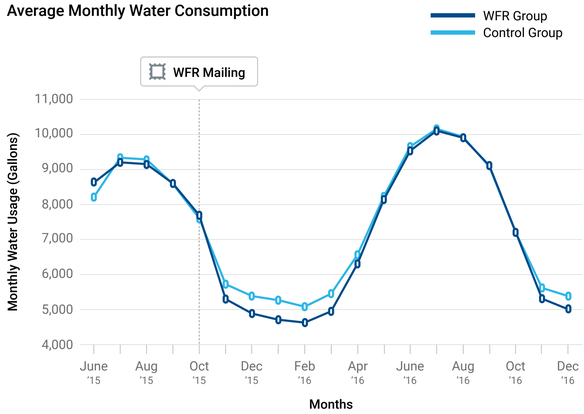
Water Focus Reports (WFR)

Personalized mailing provides feedback using a “similar homes” comparison.



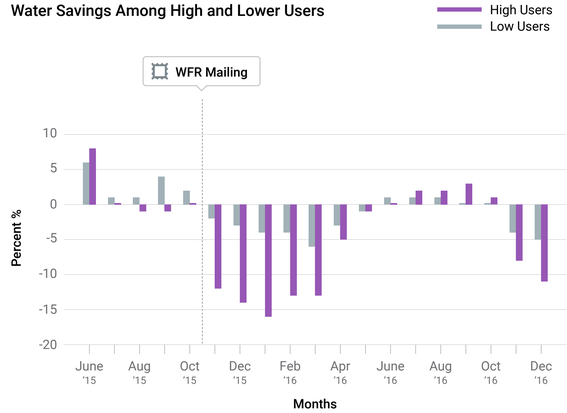
Data

18,688 homes across 19 months (8,362 in WFR group and 10,326 homes in a comparison group).



Finding 1

The water savings effect was highest in the three months following the mailing (-8% in November, -10% in December, and -11% in January).

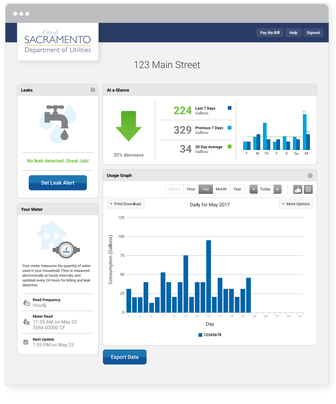


Finding 2

“High” (above-average) water users reduced their consumption by 15% whereas the savings among “low” (below- average) users reached only 5%.

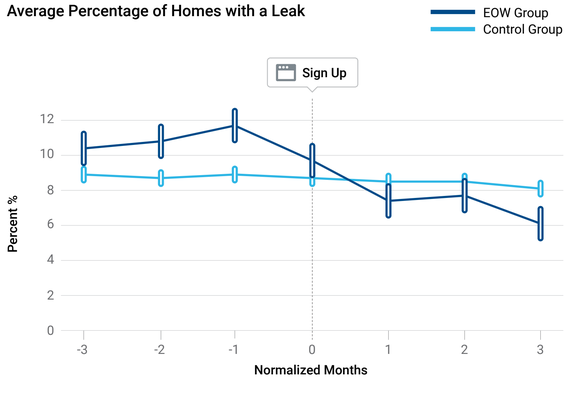
EyeOnWater (EOW)

Web portal to help track water consumption, set leak alerts, and pay bills.



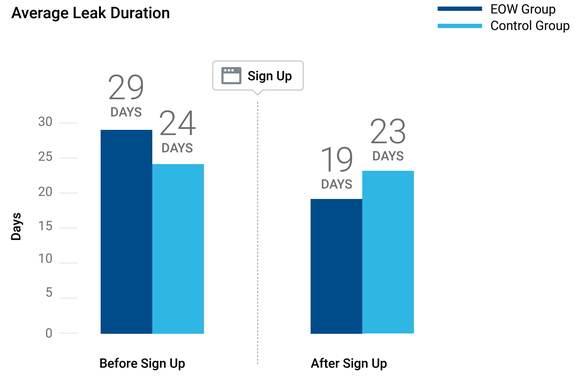
Data

5,391 homes across 7 months (1,283 in EOW group and 4,108 homes in a comparison group).



Finding 1

The percentage of homes with leaks in the EOW group dropped from 12% one month before the sign up, to 6% three months after the sign up.



Finding 2

After signing up for EOW, the duration of an average leak was reduced from 29 days to 19 days (a 30% reduction).