



TOP THREATS TO LIFT STATIONS


1 Lift Station Pump Failures



23,000-75,000 sanitary sewer overflows (SSOs) per year in the U.S.¹




41% of failures attributed to clogs and blockages²




\$30,467 in additional operating costs caused by wipes on the average utility³


2 High Energy Usage



Up to **40%** of WWTP's annual operating budget spent on electricity⁴



Up to **30%** of WWTP's energy is consumed by lift stations⁴



Up to **40%** energy savings achieved after installing VFDs⁵

3 Aging Infrastructure



Overall wastewater infrastructure grade in the U.S.⁶



20 years average design life of lift station control equipment⁷



\$3,000-\$7,000 potential cost to homeowners if systems fail⁶

SOLVE YOUR CHALLENGES

Preventive Maintenance

- ▶ Built-in anti-clogging function
- ▶ Programming, startup, and field engineering support
- ▶ Industry-leading warranty
- ▶ VFD protection and trip prevention

System Optimization

- ▶ Control pump acceleration and power reduction in standby
- ▶ Visualize capacity
- ▶ Real-time monitoring and reporting

Modernization

- ▶ Complete and coherent VFD range, PLC/HMI, and SCADA solutions
- ▶ Controls upgrades and startup services
- ▶ Longer component life

UPDATE YOUR LIFT STATIONS BEFORE THEY FAIL

Discover what it means to modernize your wastewater operations at

us.mitsubishielectric.com/fa/en/solutions/industries/water-wastewater/

Sources: ¹ <https://www.epa.gov/npdes/sanitary-sewer-overflows-ssos>; ² Georgia Environmental Protection Agency 2023; ³ https://www.nacwa.org/docs/default-source/resources---public/govaff-3-cost_of_wipes-1.pdf; ⁴ <https://www.energy.gov/scep/sisc/wastewater-infrastructure>; ⁵ <https://smartenergy.illinois.edu/lift-station-optimization-in-wastewater-treatment-plants/>; ⁶ <https://infrastructurereportcard.org/cat-item/wastewater-infrastructure/>; ⁷ https://utilities.cityoffortwayne.org/resources/pdfs/20_YR_Lifecycle_Evaluation_w_appendices.pdf