EMPIRE STATE

The Empire State Building: Sustainability and Operational Excellence



Scope

- Leading international model for energy efficiency retrofits in the existing built environment
- ESRT designs and operates its buildings with environmental impact and resource conservation as a priority
- Initially deployed on Empire State Building, expanded across ESRT portfolio

Challenge

- Target reduction of water use of 2% year-over-year
- Target 30% water consumption reduction by 2035 from a 2018 baseline
- Committed to carbon neutrality by 2030
- Prevent water leak damage and disruption to iconic building
- Any new technology deployment at the Empire State Building requires a positive ROI

WINT's Solution

- Installed WINT on multiple water systems, including:
 - Main Feeds
 - Cooling towers
 - HVAC systems
 - Booster Pumps

Results

- Detected cooling tower malfunction which would have gone unnoticed
- Pump failed, WINT immediately alerted of the malfunction
- Detected other equipment malfunctions, including condensate tank

Success Metrics

- Environmental:
 - Consumption down by over 7.5 million gallons/year
 - Reduced emissions by over 300 tons carbon/year
- Financial:
 - Saving over \$100,000/year
 - Prevented damage of >\$500,000
 - ROI: **1,500%**
 - Payback period: 3 months



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