

From Legacy to Leader

Trane Transformation of an Iconic Building in La Crosse, Wisconsin



Facility Details



80,000

square feet

1951

building was constructed

Operational Achievements



System performs effectively in **subzero temperatures**

Building's daytime **internal and solar heat stored in ice tanks** for next day's morning warmup

Operated for several weeks in spring using only stored heat recovery—**no outdoor heat pump used**

Real-time predictive algorithms optimize performance



Innovation Firsts

World's first Thermal Battery™ Storage-Source Heat Pump System

Ice-based thermal energy storage tanks working with heat pumps

Hydronic branch conductors deliver efficient, low-cost zoned comfort



Environmental Impact



30-40 Million

gallons of water savings expected annually

All-Electric System

replacing outdated steam and cooling systems



Performance & Efficiency Metrics



>250%

improvement in heating efficiency compared to legacy steam system



COP of 3

heating coefficient of performance (even in subzero temperatures)



28%

reduction in overall building energy use intensity (EUI)