

# 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replacing outdated steam  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)