






**2023**

**BETTER  
PROJECT**



## **KYB AMERICAS CORPORATION: Replacing Multiple Chillers with a New High-Efficiency Centralized Chilled Water System**

**KYB implemented a comprehensive chiller system replacement that resulted in annual energy savings of 2.1 million kWh, and energy and maintenance cost savings of \$280,000. The project was identified as part of a Better Plants Energy Treasure Hunt In-Plant training.**

-  **Replaced 7 separate, inefficient air-cooled scroll chillers that were 7.5 to 30 tons with an average efficiency of 1.4 kW/ton**
-  **Features a centralized chilled water loop served by a new 1,500-ton centrifugal chiller equipped with variable frequency drives and magnetic bearings for better part load efficiency (rated efficiency of 0.23 kW/ton)**
-  **Achieved a simple payback period of less than a year with maintenance cost savings achieved through more advanced automation and controls and centralizing the system to one chiller**

