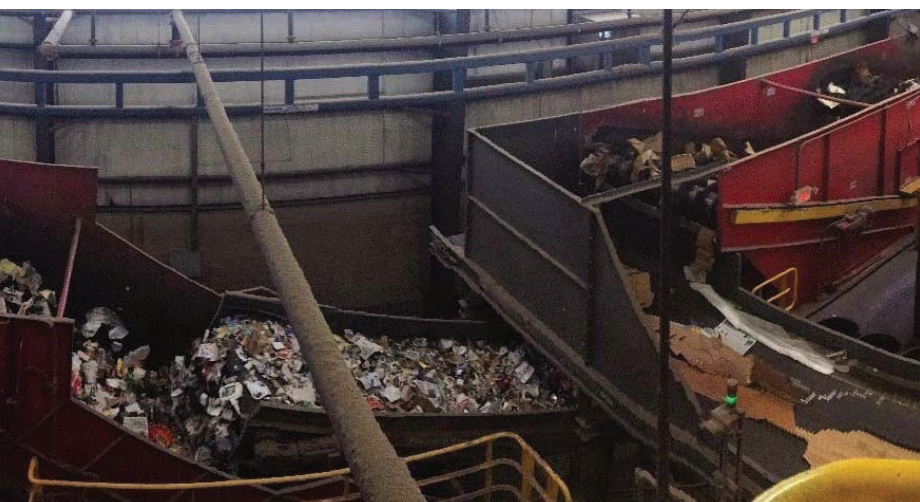


CASE STUDY

# Curiosity and a QR code lead to success at Penn Waste Recycling company



01

01 Penn Waste Recycling in Pennsylvania

02 Smart sensors installed on bearings in the mash preparation process

### Challenge

Penn Waste Recycling was experiencing failures on the debris roll screen – a critical application that breaks up glass in the recycling process. The movement and material involved in this process make it a high-risk area for bearings.

### Solution

Sixty-two ABB Ability® Smart Sensors for mechanical products were installed on mounted bearings located on the debris roll screen. Installation of the sensors was easy because most of the Dodge® bearings in place were already drilled and tapped for a sensor. A team of four was able to commission and install all 62 sensors, plus install and configure two gateways, in less than three hours.

### Benefit

In the year since the sensors were installed, the sensors have alerted the team more than 40 times before a problem occurred. Penn Waste shares, “Since we installed the sensors, we have not had one second of down time that we didn’t know about ahead of time and accounted for.”



Read the whole story here

“The sensors have given the equipment a voice. We now have a broader data set of bearing life in different operating conditions which has allowed us to create an equipment profile for better understanding of normal wear and tear over time.”

“With the sensors, we are no longer guessing. We now have actual data that lets us know trouble exists and what needs attention or is a priority.”



02

---

ABB Motors and Mechanical Inc.  
5711 R.S. Boreham, Jr. Street  
Fort Smith, AR 72901  
Ph: 1.479.646.4711

**[new.abb.com/motors-generators](http://new.abb.com/motors-generators)**