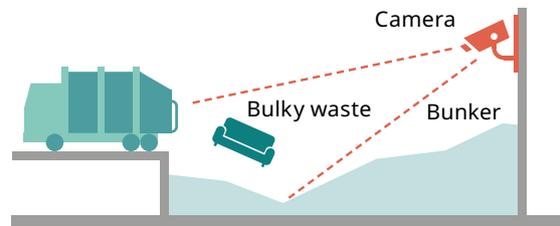


## Bulky waste detection for Waste to Energy plants

### Principles

A bulky waste item creates a risk of reducing plant availability and plant efficiency when dropped into the feed hopper and fed through the furnace and bottom ash extractor system. To avoid this issue, Kanadevia Inova has developed a new way of detecting Bulky Waste via an AI solution. For the detection the waste dumping gates are continuously monitored by a set of cameras and the recorded video stream is fed into the detection software. Newly arriving objects are visually analysed, and potential bulky waste items are identified. Plant operators are notified about bulky waste items through the provided web application.



### Examples of detected bulky waste items

- Mattress, blanket
- Board, pallet
- Box, Big Bag
- IBC container
- Furniture
- Large tire
- Forest waste
- Large pipe or roll

### Performance



**1.0m x 1.0m** and  
**0.5m x 1.5m**  
minimum detection size



**80%**  
correctly  
identified bulky  
waste items



**< 30 sec**  
alarm latency  
24/7 monitoring

### Requirements

#### Connectivity

- ✓ Internet connection
- ✓ Remote access (only to the bulky waste server)

#### User access

- ✓ Tablet or laptop with a standard browser
- ✓ Login with MFA (multi factor authentication)

#### Layout

- ✓ Will be part of the initial validation process

#### Operation

- ✓ Operator feedback for continuous improvement of product performances

#### Maintenance and lifecycle (optional)

- ✓ All needed services and spare part management are provided by Kanadevia Inova

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Find out more

