

■ Subject	Batteries GP Batteries Thisted
■ Industry	Chemical / batteries
■ Start project	July 2020
■ Commissioning	Completed December 2020



■ **CASE**

Fortum Waste Solution was approached for the cleaning and processing of for about 400 tons alkaline batteries. To carry out these kinds of projects, we have a fieldserviceteam. Fortum approached Envigroup to find the best solution for the processing of the batteries. Envigroup, in cooperation with van Peperzeel, transported, sorted and processed these batteries. The main reason for the disposal of these batteries was the development of the location where they were held.

■ **DECISIVE FACTORS FOR THE CUSTOMER**

- The price,
- Flexibility, on forehand it was unknown which type of batteries and how much of them would come in,
- Knowledge and skill of requesting export exemptions, logistics, sorting and the right recovery possibilities.

■ **IMPORTANT FACTORS**

- It were alkaline batteries,
- The batteries had been stored since the start of this century,
- Volume was estimated to be 400 tons, but ended up being more than 600 tons,
- Weight of the batteries varied from 16 grams to 80 kg,
- The project took place over the period of half a year.

■ **EXPLANATION PROJECT**

The main goal recovering alkaline batteries is retrieving zinc. The quality of a large amount of the batteries' qualities was known on forehand. During the project, multiple types of alkaline batteries were discovered. Batteries with heavy metal cases, higher weights and different packaging methods. This had to be anticipated. We did eventually find the best solution for the client. The volume turned out to be 50% higher than expected on forehand, but we could manage this.

In the press: <https://www.fortum.dk/media/2021/02/reducing-waste-one-gp-batteries-main-environmental-focus-areas>

