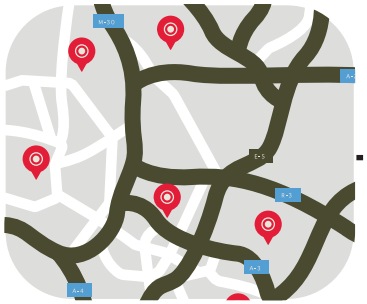
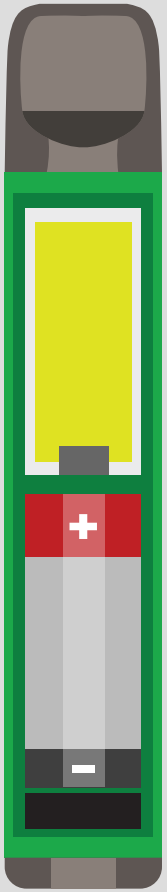
Disposable Vape Recycling Overview

Design and Produce Bins



Develop and optimise collection and drop-off points



Waste Materials

Materials like metals & plastics are seperated and recycled correctly

Chemical Elements

Energy recovery using ultra high temperature recycling method

Lithium-Ion Battery

Currently we shred cells to recover precious metals but are exploring the reuse of batteries.

Pressure Sensor

Investigating the recovery of the rare earth magnets with University of Birmingham

We offer real-time reporting and account management.

Recover

We recover UK-wide Lithium-ion batteries & safely transfer them to our facility for sorting, preventing them from ending up in landfill or causing an accident.

Sort

The batteries are then sorted and their condition assessed for reuse, regeneration, repurposing, or recycling.

Reuse

Many batteries have the ability to be charged repeatedly before reaching their end of life, yet they often get discarded prematurely. Rather than wasting them, we ensure that those batteries are recharged and reused

Regenerate

We're currently working with experts and universities on a study that will potentially reverse battery degradation, allowing them to be reused once more. Some of the batteries we collect are being used in this study.

Repurpose

Many old batteries still contain cells and parts that can be repurposed in other battery applications. Repurposing these parts ensures that batteries are only ever recycled, once they have no remaining use.

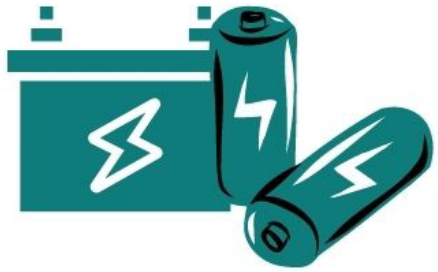
Recycle

Batteries that can not be reused, regenerated or repurposed any further are fully recycled and broken down for their valuable raw materials such as Nichol, lithium, copper etc

If our regeneration is successful, the batteries have been regenerated, tested and deemed safe to use, will be sent out once again to be reused.

Recycle

Batteries that can not be regenerated, are sent to be recycled and broken down for raw materials



Once batteries have been reused/recharged to their maximum, the parts can be repurposed.