

TURNING WASTE INTO ENERGY? HOW DOES THAT WORK? Thomas' adventure in a Waste-to-Energy Plant





This is Thomas. He is the hero of our story and is interested in everything to do with technology and environmental protection. On top of that, he is incredibly curious and always on the lookout for new adventures.

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www.heldenstreich.com

Courtesy of ITAD Association of German Waste to Energy Plants

On behalf of EEW Energy from Waste GmbH







... and those are just a few of the many types of waste that can be recycled

Bio-Waste

Waste from the garden and the kitchen can be turned into compost and energy.

Scrap Waste

The different kinds of metal waste can be used to produce new metal products.

When we talk about **Waste**, we are talking about all the leftovers we no longer need. It's also called **rubbish** or **garbage**.

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Do you know what waste really is?

Do you know what kind of waste we produce at home?

For example: food leftovers, garden waste, paper, plastic wrappers, old clothes, batteries, ...

... old furniture, drink cartons and so on and so forth ... lf you want to do something useful with the waste, you should **always sort it first!**

> ... Recycling's a great thing. Now let's go to the WtE plant and see what happens there.

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Waste Glass

Glass bottles can be recycled countless times. Most new bottles are largely made from old bottles.

Textile Waste

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Waste-to-Energy

Clothes that people don't want any more - because they are, for example, too small - are collected and given to people who cannot afford new ones.

Waste Paper

Old newspapers and cardboards can be recycled they're times.













From there, a claw moves the waste to the furnace where it gets combusted. Water gets pumped through the walls of the furnace and gets so hot that... ... it turns into hot steam. This steam then drives a turbine connected to a generator which produces electricity. Just like a bicycle dynamo! Gar











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