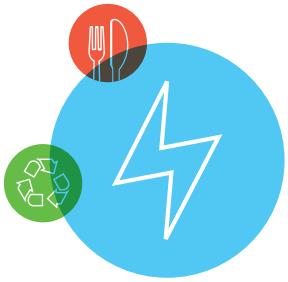
Waste to Energy without Combustion



→ **O2E Technology's waste conversion technology is an innovative approach to recycle organic waste to create new products such as fuels, chemicals, electricity, and local food.**

O2E Technologies uses a patented catalytic depolymerisation process to **convert organic wastes** (including biomass, plastic, and rubber) into high-caloric **fuels for energy production**, and into **compost and fertilizers** that that can be used for local food production. According to the company, the self-contained process can convert municipal solid waste and any organic waste streams quickly into chemical derivatives (diesel, oil, benzene, kerosene), fertilizer, or directly into electricity and heat.

Why a Sustainia100 solution?
O2E Technologies' waste-to-energy technology can process waste without need for landfills, dumpsites, or incineration – thus avoiding greenhouse gas emissions from storage or combustion of waste material. The company's waste conversion units are modular and scalable.

ENVIRONMENTAL

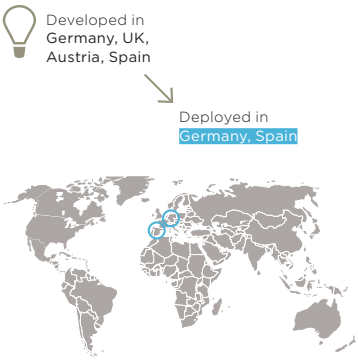
According to O2E Technologies, pollutants such as chlorine, sulfur, mercury, chromium, and other heavy metals are removed from feedstocks and neutralized in its waste conversion units.

SOCIAL

Organic household waste and industrial plastic and packaging waste can be converted locally for new high-energy fuels, chemicals, and compost and fertilizer to boost food production.

ECONOMIC

O2E Technologies' waste-to-energy technology is in operation in Germany, where it is successfully transforming waste to valuable resources.



Fertilizers and compost are some of the byproducts from the patented depolymerisation process.

Solution by O2E Technologies