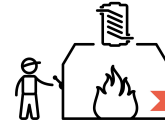




① We produce waste on a daily basis. At home, at work, wherever we go.



② Part of that waste is separated by consumers at home or in our waste separation installation. But some waste always remains behind.



③ Non-recyclable waste becomes energy in our energy-from-waste facility. Clean flue gas is released during this process.



④ The flue-gas condenser cools the gases from 67°C to 45°C.

⑩ This is how your residual waste is recycled into a new raw material.

CO₂ capture system.

AVR recovers CO₂ from the flue gases released during the incineration of residual waste and uses it as a new raw material.



⑨^c New applications for CO₂ still have to be developed, which requires further research and innovation.



⑨^b For use as a coolant, in fire extinguishers and sustainable concrete.



⑨^a CO₂ is used in horticulture as a growth promoter for crops.

⑧^a In Rozenburg, CO₂ gases will, in the future, go directly into the pipeline.

⑧^b In Duiven, the CO₂ is first cooled to -20°C, after which it is stored in tanks as a liquid gas. It can now be transported by truck to the desired destinations.

⑦ The CO₂ pressure is increased to 16 bar in the compressor.

⑥ The CO₂ rich solvent from the absorber is heated in the stripper column with residual heat from the Waste to Energy plant. By heating the solvent, the CO₂ is released as a pure gas. CO₂ lean solvent is reused in the absorber.

⑤ In the absorption column, a special solvent (MEA) removes up to 85% of the CO₂ from the flue gases. The remainder of the flue gases, with most of the CO₂ extracted, is released through the chimney.

