THE LEEDS RECYCLING AND ENERGY RECOVERY FACILITY FACT FILE 5:

The Circular Economy

The Leeds Recycling & Energy Recovery Facility (RERF) formally opened in 2016 as a high quality, innovative building, located on the site of the former Cross Green wholesale market in east Leeds. Standing at 42 metres high and 150 metres long, this award-winning, landmark building is highly visible in the city and incorporates a visitor centre providing local schools with an education resource to support learning about waste, recycling, energy and the environment.

Schools have a key role in contributing to Leeds' ambition to be a 'zero waste' city as waste from UK primary and secondary schools totals around a quarter of a million tonnes each year, equivalent to 185 double decker buses every school day!

A circular economy describes an alternative to the more traditional linear economy that typically takes, makes, uses and disposes of resources.

A circular economy tries to keep resources in use as long as possible, and, while in use, attempts to extract the most value from them; recovering and regenerating products and materials at the end of their useful life. The 6 Rs of sustainability underpin the circular economy and provide a useful checklist as follows:



Moving to a circular economy is important because, as well as creating opportunities for growth, it can help to:

Reduce the overall amount of waste produced in the first place

Improve greater use of our resources

Contribute to making the UK economy more competitive

address emerging resource security/ scarcity issues in the future

Help to reduce the environmental and consumption both in the UK and abroad

The Leeds RERF makes a direct and significant contribution to the circular economy through separating valuable materials from waste and sending them on for re-processing into new materials. The waste that remains after this process undergoes a specialised combustion process to reclaim even more value in the form of electricity that is transferred to the National Grid and heat supplied to the Council's district heating network.



The RERF can power up to 22,000 homes via the National Grid on an annual basis.





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Currently the circular economy represents 25% of Veolia's turnover and continues to strive to do more.



The World Economic Forum has forecast that by 2025, the circular economy will contribute over \$1 trillion globally every year.

The Leeds RERF separates out ferrous to go on to be **made** into new things.

> Once the metals have been separated they are sold on to other companies to be made into more, new and useful, things e.g. metal cans can be made into a child's scooter.

Curriculum links

- National Curriculum Design and Technology National Curriculum
- Citizenship
- Programme of Study for PSHE Education (non-statutory)