

Ecosystems

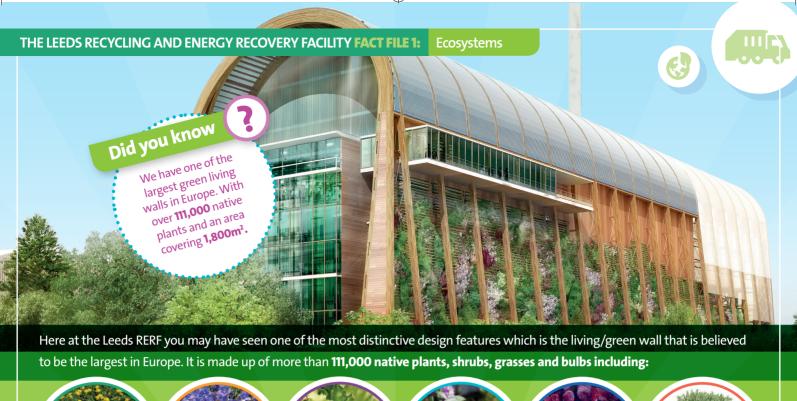
The Leeds Recycling & Energy Recovery Facility (RERF) formally opened in 2016 as a high quality, innovative building, located on the site of the former Cross Green wholesale market in east Leeds. Standing at 42 metres high and 150 metres long, this award-winning, landmark building is highly visible in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

RECOVERY FACILITY FACT FILE 1:

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!









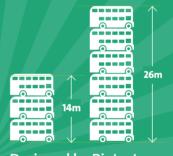


The living/green wall is designed to be self-sustaining through capturing rainwater that is then used to feed the plants in the wall with nutrients.





The living wall is a south facing installation which, through 'catching the sun', benefits from passive solar gain that helps to keep the building warm in winter



Designed by Biotecture, a British company specialising in living/green walls, the wall stands at 120m wide and ranges from 14m at its lowest to 26m at its highest point.

> That's the height of 6 double decker buses stacked



The living/green wall houses a number of insect habitat boxes that support insect life such as bees and ladybirds as well as acting as a feeding ation for bats that are attracted to the wall by the insects.



homes via the

National Grid.

Through its use of living/green wall technology the Leeds RERF makes a direct and significant contribution to Leeds' green corridors by creating a range of valuable habitats for different species. At Leeds RERF green corridors support the movement of wildlife through connecting the north-eastern corner of the site to the green space to the north. Covering an extensive area of 1,800m², the living/green wall also has a role in contributing to improving air quality as plants in cities have been shown to remove nitrogen dioxide (NO₂) and particulate matter primarily created by transport emissions.

Curriculum links

- National Curriculum Science (Biology)
- National Curriculum Geography
- National Curriculum Citizenship
- **PSHE Education** Programme of Study (non-statutory)

Brain Teaser: Considering the Leeds RERF's living/green wall, explain its role in supporting ecosystems and give an example of an ecosystem, listing some of its member organisms.