

# Energy from Waste Topic Overview



**Overview:** The award-winning North London Heat and Power Project (NLHPP) Schools Engagement Programme presents the 'Energy from Waste' workshop. Aimed at students in Key Stage 4 and 5 to stimulate interest in STEM subjects and careers in engineering, construction, and the built environment, 'Energy from Waste' will provide students with an understanding of the process of producing energy from waste, and its environmental benefits. The workshop is focused on the new EcoPark and Energy Recovery Facility which is currently being constructed as part of the NLHPP in Edmonton, Enfield.



**Main Aim:** Introduce students to the process of production of energy from waste and its environmental and climate benefits, including comparisons to other sources of energy.

## Outcomes:

- Learn about London's waste challenge and the energy-from-waste process;
- Understand how the NLHPP will help reduce waste and carbon emissions;
- Evaluate different sources of energy compared to energy-from-waste;
- Explore career opportunities and routes to employment at the NLHPP.

## Session Content:

- Workshops can be delivered as part of an in-person workshop or as part of a site visit, depending on availability and risk assessments.
- Interactive presentation delivered by a technical expert from across the NLHPP, providing an overview of the EcoPark and Energy Recovery facility, including;
  - Role of the EcoPark, including videos of the site and how it will operate
  - Energy from Waste process and its product
  - Climate and environmental benefits
- Activity session: this can be tailored for each group but could be debating the pros & cons of the facility from the viewpoint of different stakeholders or a project management related activity.

*Note: Content and duration of sessions are tailored to meet specific booking requirements. Sessions should be booked at least 2 weeks in advance.*

**Session Duration:** approx. 45 minutes.

**Curriculum Links:** Physics (fuel use and costs, fuels and energy resources), Chemistry (the carbon cycle, carbon dioxide and impact on the climate), Geography (use of natural resources).

**Link to relevant Gatsby Benchmarks:** Benchmark 4 (Linking curriculum learning to careers), Benchmark 5 (Encounters with employers and employees)

For further enquiries and to book a session please contact: [NLHPP@NLWA.gov.uk](mailto:NLHPP@NLWA.gov.uk)