

Non-technical Summary

An Environmental Permit (EP) (Ref: EPR WP/3007LM) was granted by the Environment Agency (EA) to Thameside Energy Recovery Facility Limited (TERFL) for the Thameside Energy Recovery Facility (TERF) (herein referred to as the Facility) on 28 September 2021. Within this application, TERFL is applying for a variation to the EP.

At the time of submission of the original EP application in 2013, the Facility was expected to have an annual processing capacity of 300,000 tonnes of waste per annum. The EP was subsequently varied in November 2014 to reduce the capacity of the EfW facility to 170,000 tonnes of waste per annum and amend the application with the most up-to-date technical information available.

Following a review of the current waste market and discussions with potential technology providers TERFL has reviewed the design of the Facility to maximise its full potential. TERFL has recently been granted an amendment to the planning consent issued by the Department for Business, Energy and Industrial Strategy (BEIS) to enable it to process up to 350,000 tonnes of waste per annum. To align with its review of the project, TERFL is applying for the following changes to the EP:

1. Changing the waste incineration technology from a conventional moving grate with spreader stoker system to an inclined moving grate with ram feeder.
2. Increase in the annual capacity of the Facility to 350,000 tonnes per annum to align with the planning consent and updated design of the Facility.
3. Changes to the firing diagram which include:
 - a. increasing the thermal capacity of the facility from 57 MW_{th} to 126.4 MW_{th}; and
 - b. increase in throughput from 14.9 t/h to 43.3 t/h.
4. Update the Site Layout to incorporate layout changes following optimisation of the design of the Facility.
5. Removal of the SRF preparation facility and associated infrastructure.
6. Change the reagent to be used in the SNCR system from urea to ammonia solution.
7. Include additional non-hazardous EWC codes to the permitted waste types which can be processed at the Facility.
8. Provision of a Fire Prevention Plan (FPP).

An air quality assessment is provided with this application. As concluded in the air quality assessment, the proposed changes will not result in any significant impacts on human health and the environment.

TERFL understands that this application will be classified as a Substantial Variation due to the proposed increase in capacity being more than the threshold stated in Part 2, Schedule 1, Section 5.1 (b) of the Environmental Permitting Regulations.