



CLIENT:
WESSEX WATER

CONTRACT VALUE:
£5.76M

CONTRACT TYPE:
NEC3

SECTOR:
**ENERGY
WATER**

DESCRIPTION OF WORK:

ACIEM (as Damar Group) realised the opportunity for clean power at Bristol Sewage Treatment Works, Avonmouth delivering a new food waste treatment plant (FWTP) adjacent to the existing sewage sludge acid phase digestion plant (APD).

The works included the construction of a new build FWTP, installation of all process equipment and the adaptation of the existing APD to divert to the FWTP as required.

The new facility converts both solid and liquid food waste into renewable energy and nutrient rich fertilizer. The food waste treatment plant at Bristol is the first of its kind in the area and can receive up to 40,000 tonnes of food waste per year, supplying the energy needs for around 4,000 homes by increasing gas production to feed an existing CHP plant of 5.75MWe. The FWTP was delivered over a ten month period and in good time for the operational trial date.

PROJECT HIGHLIGHTS

Civil, mechanical and electrical engineering of a complete energy centre which can process 40,000 tonnes of food waste per year; and construction of complete anaerobic digestion plant including waste reception building, buffer tanks and liquefied waste tanks.

Specialist project management to meet stringent industry by-product regulations,

Electrical and mechanical design, include bespoke control system,

Electrical panels built in house, and integration into the existing site infrastructure including sewage waste product and gas collection.



**AVONMOUTH FOOD WASTE
TREATMENT PLANT**



UKAS a member of BSI Group of Standards/BSI/BSI/UKAS

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UVDB empowered by Achilles

ROSPA

NICEIC