



CASE STUDY
**CHALTON WATER
RECYCLING CENTRE UPGRADE:
INTEGRATED SITE SOLUTIONS**
CHALTON, NEAR LUTON

CLIENT
Anglian Water AMP6
MAIN CONTRACTOR
@one Alliance – MWH



**INFRASTRUCTURE
WATER**

CHALTON WATER RECYCLING CENTRE UPGRADE CHALTON, LUTON



INFRASTRUCTURE | Case study | WATER

PROJECT BRIEF:

As part of a £20million upgrade to build Europe's largest Tertiary Treatment Facility at the Water Recycling Centre (WRC) in Chalton, near Luton, @one Alliance was looking to engage with Security and Welfare solutions to help control standards on site.

Challenges included an immediate need to secure the semi-rural 1.7mile site perimeter from potential trespasser threat which posed dangerous health and safety risks, limited power at the multiple work sites which required CCTV and time lapse coverage and an extensive number of large modular deliveries to site which, if mishandled, had the potential to negatively impact the town of Chalton and damage Anglian Water @one Alliance reputation.



ABOUT THE CLIENT:

Anglian Water is, geographically, the largest water and sewerage company in the UK. They supply water and water recycling services to more than six million industrial, commercial and domestic customers in the East of England and Hartlepool.

The Anglian Water @one Alliance is a collaborative organisation of consultants and contractors working together to deliver more than half of Anglian Water's capital investment programme. This includes around 800 schemes, worth approximately £1.2billion, to design and construct water and water recycling (waste water) centres and maintain and improve the water mains and the sewerage network in the region, between April 2015 and March 2020, known as AMP6.



THE SOLUTION:

After carrying out a detailed site risk assessment, FRG won the competitive tender to self-deliver a range of integrated site solutions over the 52-week project lifecycle.

FRG deployed the FRG Ultra CCTV Tower Hybrid at 3 key positions to provide full site coverage. These rapid deployment towers run on solar power with a back-up hydrogen fuel cell generator to guarantee 24/7 self-powered monitoring. Wireless, fully automated CCTV cameras provide state of the art 4K Full HD imagery delivering greater detailing and enhanced video analytics. The cameras are monitored offsite at the FRG Central Control Room with audible and visual alarms alerting any detected threat.

A dedicated solar powered project time lapse camera was commissioned photographing the build sequence every 20 minutes during working hours. These thousands of HD images are stored on a server and will be compiled at project completion to create a powerful real-time video documenting and promoting the works.

To control the traffic flow at access and egress points a 24hr FRG Gateman service was installed to act as a first point of contact for all visitors, suppliers and deliveries. In addition to full construction site security training the Gatemens were also Vehicle Marshal and First Aid trained to help ensure Health & Safety standards. This was backed up with a static IP camera monitored by a dedicated NVR in the Site Management Office, allowing the client to monitor and record every person and vehicle entering and exiting site.

To complete the integrated solutions package a full time FRG BICSc certified cleaning and welfare operative was employed to keep the site hygienic and safe.

THE RESULTS:

All site electronic and manned security and welfare services were fully mobilised on site within 7 days of client approval with local labour employed throughout.

The traffic flow set up was so successful that it was the first project to receive 80 deliveries over a period of two months with no cause of harm.

“ The service we have received from FRG has been phenomenal. Fantastic technology, courteous and capable operatives and a team that understands what we are trying to accomplish. Highly recommended. **”**

SENIOR SITE MANAGER,
@ONE ALLIANCE

FRG PRODUCTS/ SERVICES USED

- Rapid deployed FRG Ultra CCTV 4K HD Tower Hybrid with solar & hydrogen power sources.
- Solar powered time lapse imagery cameras.
- Combined Gateman & static IP camera controlling access and egress.
- Full time Cleaning & Welfare operative.



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