ENERGY, WASTE & WATER

MILDREN
CONSTRUCTION

ABOUT US

Mildren Construction are a main contractor working across central and southern England, specialising in the delivery of complex Energy, Waste and Water projects.

Our in-house civils capabilities work in parallel with our construction teams, enabling smooth execution of varied project types in these sectors.

Operating since 1987, we pride ourselves on building long-term relationships with both regional and national consultants, suppliers and specialist subcontractors, providing a complete service to the industry.

HERRIARD FARM, BASINGSTOKE

THE DETAIL

Design & Construction of a new Anaerobic Digester and Biomethane Upgrading Plant for Re-Gas Energy at their Herriard Park Farm near Basingstoke.

The Digester Tanks were originally intended to be constructed on a piled solution, however, following the results of a Site Investigation Report, this design was deemed to be unsuitable due to the soft ground. The solution put forward by the Mildren design team was to use a process of soil stabilisation. This process involved mixing the existing material with a concrete mix and then re-laying this in-situ and rolling to leave a flat compacted base.

Client: Re-Gas Energy

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MILLHAMS COMMUNITY RECYCLING CENTRE

New drainage, small pumping station and upgrading the waste handling area.

Client: Bournemouth, Christchurch & Poole Council

MILDREN CONSTRUCTION

THE DETAIL

Installation of a new drainage system and waste handling area at Millhams Community Recycling centre.

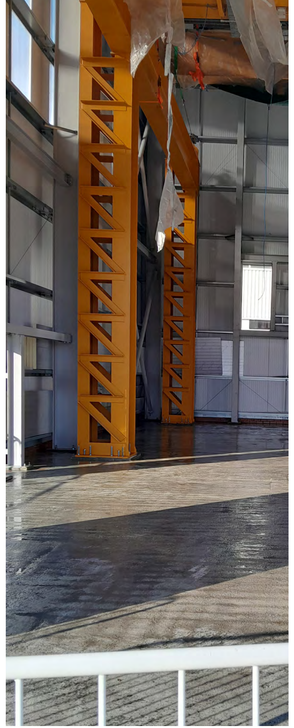
The centre is a household waste and recycling facility situated in Longham near Ferndown in Poole next to the River Stour and the River Fishery at Longham, a site of significant environmental importance.

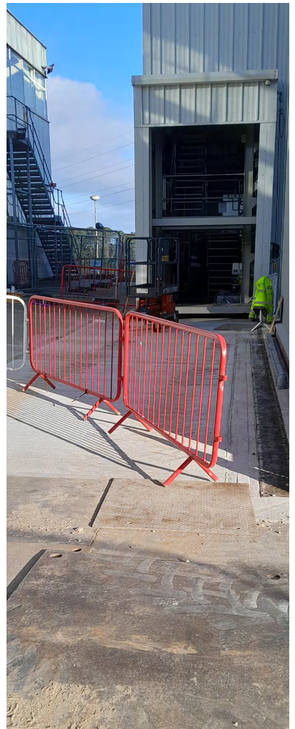
MAGNOX MINI-MILWEP

THE DETAIL

A vital waste-processing infrastructure project which included the design and build of a mini- modular Intermediate Level Waste encapsulation Plant (mini-MILWEP) and the building which houses the mini-MILWELP.

Client: Magnox/Nuclear Restorative Services





NUCLEAR RESTORATIVE SERVICES

Magnox Ltd, under the direction of the UK's Nuclear Decommissioning Authority (NDA), is tasked with the safe decommissioning and restoration of 12 former nuclear power stations and the continued operation of a hydro-electric facility. Central to this work is the retrieval, treatment, and secure encapsulation of intermediate-level radioactive waste.

EXPERT DELIVERY

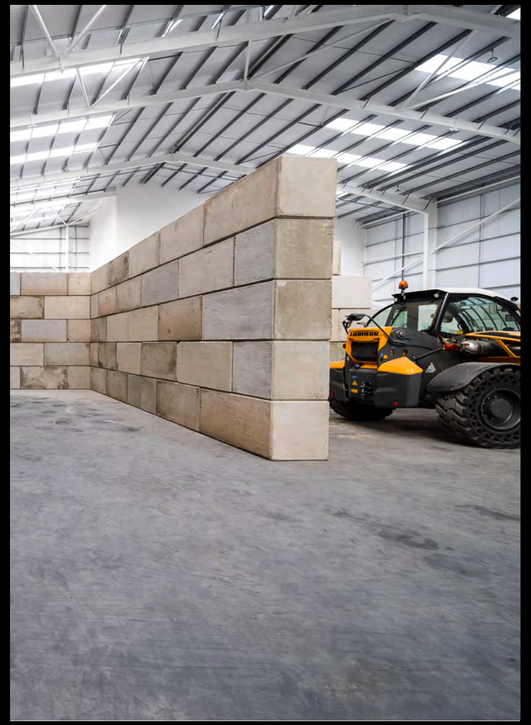
Mildren's expert delivery of the mini-MILWEP infrastructure enabled Magnox to continue its critical decommissioning operations safely and efficiently. The project showcases Mildren Construction's ability to operate in highly regulated environments, delivering precision engineered solutions for complex challenges.

W&S RECYCLING, POOLE

THE DETAIL

A new 5400m2 state-of-the-art sustainable materials recycling facility at Mannings Heath Industrial Estate, consolidating W&S's services and functions (headquarters, cardboard recycling and transport depot) in one location.

The former landfill site offered unique ground conditions and subsequent ground improvement solutions. The Mildren team, client and designers worked collaboratively to successfully deliver the project and achieved an excellent Considerate Constructors result.



W&S provides recycling services in many different areas; metal, glass, plastics and hazardous waste, amongst many others. They also have an upcycling shop and cafe at the Mannings Heath site.

AGGREGATE TREATMENT PLANT, PARLEY

THE DETAIL

ECO Sustainable Solutions recycles over 250,000 tonnes of material each year, converting it into renewable energy or high-quality landscaping products; certified composts, mulch, and nutrient rich topsoil.

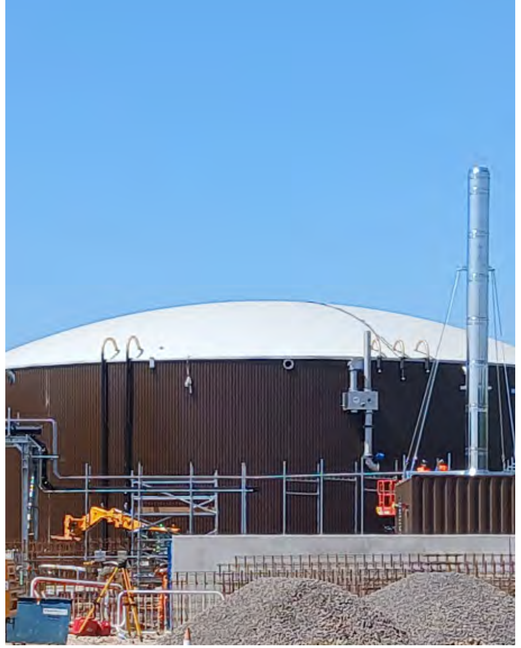
Mildren built a new aggregate treatment plant, carrying out all civils and reinforced concrete works. Existing yard slabs were cut and we installed new drainage and concrete plinths, and built 'Lego' blocks for storage bays. The reinforced concrete walls now support plant and the pre-cast concrete units form enclosures to separate the materials on site.

Client: ECO Sustainable Solutions

ANAEROBIC DIGESTER PLANT, PARLEY

New anaerobic digester (AD) plant currently on site.

Client: ECO Sustainable Solutions



THE DETAIL

Currently on site, the finished AD plant will feature two digesters, an end storage tank/hybrid digester, two food soup waste buffer tanks, a silage/diet feeder, macerator and pumping system, new flare, a gas upgrading system, a digestate pasteurisation system, propane storage, and a new grid entry unit.

Additional civil engineering requirements include the construction of an impermeable membrane below a reinforced concrete slab with 1.5m high bund wall with a flood gate entry system.

EBBSFLEET SOLAR FARM, KENT

THE DETAIL

Ebbsfleet Solar farm leads the charge with a 4.9MWp capacity. As one of the biggest in the UK at time of building, the Ebbsfleet Solar Farm will produce five million kWh annually, enough to meet the electricity needs of over 1,400 households.

To access the site, Mildren Construction designed and installed the piling and foundations for both the temporary Bailey Bridge and permanent bridge in order to cross the Minster Stream.

We provided and installed the solar farm's infrastructure requirements, ducting, trenching, bunds, fencing, roads, ring main unit, transformer, inverter bases and hardstandings to facilitate the successful completion of the Solar Farm.

Client: ib vogt

HILLHOUSE SOLAR FARM, GLOUCESTERSHIRE

Mildren Construction provided and installed the solar farm's infrastructure requirements, ducting, trenching, bunds, fencing, roads, ring main unit, transformer, inverter bases and hard standings to facilitate the successful completion of the solar farm.

Mitigation measures were implemented as part of the assessment process to limit the immediate and wider potential impacts and effects of the proposed development, in particular on the nearby network of public rights of way and the surrounding settlements, as well as the Cotswolds Area of Outstanding Natural Beauty (AONB).

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HOLT AND GAUNTS COMMON, DORSET

THE DETAIL

Construction of two sewerage works, comprising eight pumping stations, 1440m of rising main and 4920m of gravity pipework.

This scheme was conducted on the public highway and within numerous residential and business premises. As such, wide ranging communication methods were used from newsletters to our community website.

Client: Wessex Water

ZONE FITNESS, WEYMOUTH

THE DETAIL

Complete refurbishment of Leanne House in Weymouth, turning a former office building into a new gym facility. We then completed further environmental and economical improvements by fitting 292, 455W solar panels to the roof.

Through generating it's own energy, the gym reduces its reliance on the National Grid therefore reducing its carbon emissions.

Key system features include:

- 132 kW System
- SolarEdge inverters and optimisers which
  - remotely monitor system performance
  - remotely fault-find (saving time and money)
  - produces up to 25% more energy compared to a standard system

Client: DJ Property

CARPORTS WITH PV PANELS & EV CHARGING

Seven steel framed carports with photo voltaic panels and electric vehicle charging stations.

Client: KBS Maritime

THE DETAIL

This project comprised seven gull-wing carports with 252 car parking spaces. The car ports are of galvanised steel frame construction with rainwater drainage.

Photo-voltaic panels were installed, along with electric vehicle charging points, cabling infrastructure and distribution boards. Works also included all groundworks and civils, bases, drainage, ducting and surfacing.

HOUSEHOLD WASTE RECYCLING CENTRE, GOSPORT

THE DETAIL

Refurbishment and expansion project on a live operational public site increasing the overall capacity of the facility. Works entailed widening of the main unloading area and creating new entrance and exit routes to improve traffic flow to and from the facility.

Client: Hampshire County Council

Household waste recycling centres are ideal for our in-house civils teams who have a wealth of industrial building experience with environmental factors that need to be considered.

This project involved a significant level of earthworks with excavated material deposited into environmental bunds around the site. No earth was removed from site.

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ELECTRIC VEHICLE CHARGING STATIONS

THE DETAIL

Most of our construction projects now include installation of electric vehicle charging stations. The projects lend themselves to our skill set, with in-house civils expertise for the groundworks and a building services division who manage electrical installations.

Projects shown here have all been taken from industrial unit construction projects in Bournemouth and Chichester.

Clients: Various

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