



# OCU

## Water & Wastewater Capability Statement

Design | Feasibility | Refurbishment | Installation | Commissioning

Pumping Stations | Treatment Facilities | Non-Infra | Reservoirs



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## 1. Overview

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OCU is a market leader in the delivery of Water and Wastewater projects. Our project and framework contract portfolio incorporates work for many major UK Utilities, Private Developers and Tier 1 Capital Delivery organisations, across the UK. Our offering combines innovation, best practice and technological advances in what is a very challenging, highly regulated working environment. Our robust solutions add long-term value and merge safety, quality, reliability, efficiency and cost-effectiveness into our clients' operations in the world of Water and Wastewater treatment and networks distribution (non-infrastructure and infrastructure).

OCU's Water and Wastewater business has been established for over 20 years and has built a reputation for delivering the full spectrum of water and wastewater treatment projects, with turnkey solutions for design, installation and commissioning of strategic assets including trunk and mains replacement and refurbishment, new and upgraded service reservoirs and selective complex MEICA (Mechanical, Electrical, Instrumentation, Controls and Automation) installations such as pumping stations and treatment works.

Our work extends across many urban and rural environments across the UK where we provide total integrated asset solutions that include associated civil construction and MEICA engineering support services to both infrastructure and non-infrastructure assets.

OCU is committed to supporting the UK Government's agenda to achieve operational Net Zero by 2030. We recognise the importance of the energy transition from fossil fuels to alternative clean/renewable energy and we integrate our in-house capabilities to draw on Power and Water sector expertise to deliver reliable and affordable solutions to our water sector client base.

### **Sector Expertise**

From potable and raw water systems to sewer rising mains, sewer replacement, and more, we work closely with water and wastewater treatment facilities and networks.

Numerous water companies throughout the United Kingdom rely on our routine, reactive, and emergency support for water and wastewater services that are efficient, effective, and environmentally conscious.

- Water catchment, reservoir construction and refurbishment.
- Design and feasibility of new pipelines.
- Trunk main cleaning and large diameter pipe laying.
- Water and Wastewater Non-Infrastructure treatment plants.
- The construction of new and rehabilitating of old Victorian water mains.
- Repairing leaks and bursts on the water network.
- Network management and construction of district metering points and Pressure Reducing Valve (PRV) set ups.
- Undertaking drainage repairs to public sewer networks including re-lining.
- Construction of sewage pumping stations.
- Horizontal directional drilling of new rising mains.
- Trunk sewer and large diameter sewer construction.
- Combined sewer outfalls.
- Construction of sewage treatment plant.
- Decommissioning and demolition of water industry buildings.
- HDPE and Ductile Iron pipe installations including ditching.

### OCU Partner of Choice

As a leading UK Utility Contractor, our USP is the ability to offer multi-sector talent within our direct delivery model, linked closely with our carefully selected strategic supply chain who support our drive to bring innovation and to adopt new technologies, for the benefit of society, businesses, the environment, and future generations.

- We are focused on providing a high-quality engineered service delivered right first time.
- Provide end-to-end turnkey solutions.
- Our ethos is to self-deliver, supported by specialist Supply Chain partners.
- Have a proactive mindset from the outset of all projects, with our clients' objectives at the forefront in all that we do, from safety to technical compliance, stakeholder management and delivery to programme and budget.
- Have the flexibility to take on large-scale or small Water & Wastewater projects.
- Own, operate, and maintain our fleet of transport and plant, and equip our workforce with the specialist hardware and software that's needed to successfully undertake the various type of water related projects that we undertake.
- Provide clients with secure storage of assets at our logistic centres and operating depots located across England and Wales
- Full range of infrastructure (networks) and non-infrastructure (treatment plant) expertise
- Outline, concept and feasibility planning leading to full detailed design and construction.
- Networks planning and feasibility including hydraulic analysis (with strategic supply chain)
- In-house Temporary Works Design including deep excavations.
- PMO support including project planning and management NRSWA and street works noticing.
- Client support to secure consents and wayleaves
- Stakeholder and communications planning, e.g., neighbourhoods, landowners, customers
- In-house CAD including Digital Twin, BIM, Traffic Management Plans and as-builts.
- Pipeline construction including all temporary works, street works, wayleaves, access, laydown.
- Civil Engineering including ground engineering, structures, excavations, and access.
- Complex structures such as Service Reservoirs and associated strategic storage and distribution.
- MEICA support including installation, civils interface management, support structures.
- Energy solutions incl. renewable energy solutions (e.g., bioresource, solar and battery storage)
- Long-term asset care and attention to ongoing stewardship, operations, and maintenance



## 2. Case Studies

Selection of OCU current and previous Water and Wastewater Framework Contracts.



### 2.1 AFFINITY WATER - CHAUL END & PRESTON SERVICE RESERVOIRS

<b>Contract Name:</b>	Chaul End & Preston Service Reservoirs
<b>Contract Duration:</b>	2 Years
<b>Contract Start Date:</b>	April 2022
<b>Contract End Date:</b>	December 2024
<b>Contract Value:</b>	c£14m
<b>Geography:</b>	Hertfordshire
<b>Brief Description:</b>	<ul style="list-style-type: none"> <li>OCU was awarded the first projects under the WRC Framework in 2023 for the design and build of new Service Reservoirs at Chaul End, Luton a 20.75 megalitre facility, and at Preston, Hitchin a 20 Megalitre site, with OCU responsible for the design, planning, project management, construction and commissioning of both projects</li> </ul>

### 2.2 ALIGN JV (FOR HS2) – TILE HOUSE LANE SEWER DIVERSIONS



<b>Contract Name:</b>	Sewer Diversion: Tile House Lane
<b>Contract Duration:</b>	4 Months
<b>Contract Start Date:</b>	August 2021
<b>Contract End Date:</b>	November 2021
<b>Contract Value:</b>	c£750,000
<b>Geography:</b>	HS2 C1 Package
<b>Brief Description:</b>	<ul style="list-style-type: none"> <li>The Purpose of these works were to divert the existing 525mm drainage run to allow the construction of the new railway line above it. In doing this work we had to install 4 permanent manholes and a new drainage run between them, this is to future proof this run to meet future increases in flow and ultimately provide a 120-year life span.</li> <li>Following completion of the pipe runs and for further future proofing Align JV &amp; Thames Water requested that the 750mm pipe runs have a GL16 cure in place pipe liner.</li> <li>Testing procedure carried out during these works included:-             <ul style="list-style-type: none"> <li>- Visual inspection of the works by Align &amp; Thames Water</li> <li>- Pipe air testing</li> <li>- Concrete slump and cube testing</li> <li>- Checking of pipe levels &amp; gradients</li> <li>- CCTV of pipe runs</li> </ul> </li> <li>Achieved ZERO harm</li> </ul>

### 2.3 THAMES WATER - RIVERSIDE PLUMSTEAD



<b>Contract Name:</b>	Trunk Main: Riverside, Plumstead, London
<b>Contract Duration:</b>	1 Year
<b>Contract Start Date:</b>	August 2019
<b>Contract End Date:</b>	January 2020
<b>Contract Value:</b>	c£900,000
<b>Geography:</b>	Plumstead East London
<b>Brief Description:</b>	<ul style="list-style-type: none"> <li>• 420m new DN500 PE duplication main</li> <li>• End connections into the existing 450mm CI and DN600 DI mains</li> <li>• 125m trenchless installation by auger bore selecting a horizontal thrust boring machine methodology with RSHV steering system</li> <li>• RSHV method uses the Perforcam-Nova OEN system combined with tilt and angle sensors, providing greater accuracy and control of drilling operations both horizontally and vertically</li> <li>• Achieved ZERO harm</li> </ul>

### 2.4 THAMES WATER - STOKE NEWINGTON



<b>Contract Name:</b>	Trunk Main: Stoke Newington, London
<b>Contract Duration:</b>	1 Year
<b>Contract Start Date:</b>	November 2018
<b>Contract End Date:</b>	December 2020
<b>Contract Value:</b>	c£1,000,000
<b>Geography:</b>	Stoke Newington
<b>Brief Description:</b>	<ul style="list-style-type: none"> <li>• 1.8km of new slip lined 710mm pipe from south of the twin Reservoirs located at Lordship Road to Northwold Road</li> <li>• 160m open-cut trench with sheet piling ground stabilisation</li> <li>• Installed 5 trunk main monitoring points on replacement main</li> <li>• Heavily congested route with existing utilities</li> <li>• Key stakeholders included Transport for London and Hackney Council</li> <li>• Achieved ZERO harm</li> </ul>

### 2.5 THAMES WATER - NORWOOD ROAD



<b>Contract Name:</b>	Trunk Main: Norwood Road, London
<b>Contract Duration:</b>	1 Year
<b>Contract Start Date:</b>	May 2019
<b>Contract End Date:</b>	June 2020



<b>Contract Value:</b>	c£1,400,000
<b>Geography:</b>	South London
<b>Brief Description:</b>	<ul style="list-style-type: none"> <li>• Thames Water eight20 (SMB JV)</li> <li>• 840m of 600mm ductile iron in open-cut installation</li> <li>• 2 end connections via use of line stops and 3 cross connections</li> <li>• Excavation shoring works included the use of trench boxes and sheet piling</li> <li>• Key stakeholders included Transport for London, Lambeth Council and Network Rail</li> <li>• Achieved ZERO harm</li> </ul>

## 2.6 THAMES WATER - FARINGDON TO BLUNSDON



<b>Contract Name:</b>	Trunk Main: Faringdon to Blunson, Swindon
<b>Contract Duration:</b>	1 Year
<b>Contract Start Date:</b>	October 2018
<b>Contract End Date:</b>	April 2020
<b>Contract Value:</b>	c£3,500,000
<b>Geography:</b>	Farringdon Oxfordshire
<b>Brief Description:</b>	<ul style="list-style-type: none"> <li>• Cross-country pipeline</li> <li>• 2.8km of 1200mm High Density Polyethylene (HDPE)</li> <li>• Open-cut trench average depth 2.5m to accommodate ditch crossings</li> <li>• 35m pipe jack under River Cole at depth of 7m with 900mm welded steel pipe insert</li> <li>• Use of excavator mounted "laser catcher" for control of dig levels</li> <li>• Butt fusion of 1200mm HDPE pipe including 24hour working</li> <li>• Achieved ZERO harm</li> </ul>

## 2.7 Fusion - Addison Road



<b>Contract Name:</b>	HS2: Addison Rd Sewer Diversion
<b>Contract Duration:</b>	8 months
<b>Contract Start Date:</b>	August 2020
<b>Contract End Date:</b>	March 2021
<b>Contract Value:</b>	c£2m
<b>Geography:</b>	Buckinghamshire
<b>Brief Description:</b>	Horizontal Directional Drilling (HDD), Shaft Construction, pipe installation and testing

## 2.8 Fusion - School Hill



<b>Contract Name:</b>	HS2: School Hill UTX / Sewer Diversion
<b>Contract Duration:</b>	15 months
<b>Contract Start Date:</b>	April 2021
<b>Contract End Date:</b>	July 2022
<b>Contract Value:</b>	c£8m
<b>Geography:</b>	Buckinghamshire
<b>Brief Description:</b>	<ul style="list-style-type: none"> <li>• 10 No HDDs</li> <li>• Chamber Construction</li> <li>• Sewer Diversion Works</li> <li>• Clean Water Diversion works</li> <li>• Communication Diversion Works</li> <li>• 33kV and 11kV Diversion Works</li> <li>• Substation installation</li> </ul>

## 3. Energy Transition - The Utilisation of Water Assets

The UK's Water companies have significant assets that includes land and operational plant and equipment which has the potential to be utilised for power generation and distribution to contribute to the UK's Net Zero commitment, whilst also maximising the usage of their asset base to develop solutions as part of the wider energy transition initiatives being adopted around the globe. OCU expect energy solutions will become a more significant part of each UK water company's portfolio and will feature strongly in their Company Business Plans and response to PR24, where the drivers for this are many, to include; energy prices, reduced WACC, increasing population putting more pressure on supply, drought, flood and Net Zero ambition.

OCU is well placed to support the Water company's to design, plan, construct and commission a wide array of power generation and distribution schemes to include the following, where OCU in con-junction with our Power Business Unit and in-house design and engineering teams can provide robust technical and commercially attractive solutions:-

- Battery Energy Storage
- Bioresources
- Biogas
- Solar
- Wind



OCU has the technical know-how, design and engineering resources, and established relationships with the leading OEMs to provide the Water companies with total solutions to develop and enhance their assets into power generation and distribution systems, and we are flexible in the Delivery Model and Commercial arrangements that can be adopted to facilitate the design, planning, construction, commissioning and long-term operations and maintenance, as outlined below:-

- EPC partner (for delivery of the capital works)
- OpCo partner (for long-term asset stewardship, operations and maintenance)
- SPV member with equity shareholding



## 4. Resources

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OCU Group maintains a highly skilled team of directly employed resource. We undertake 90% of our work using in-house talent and work closely with a small number of strategic partners to assist us in several specialist areas. Our direct skills include:-

- Deep excavations, civil engineering, thrust blocks and confined space working
- Tunnelling and trenchless solutions, including moling and pipe-jacking
- Demolition, enabling works and surveying
- Pipe and mains laying, lining, splitting – all sizes
- Water quality and hygiene measures
- Line stops, high-pressure working
- Complex MEICA, diversions, connections
- Pipe bridges, under rail/road transfers
- Stakeholder, customer care/support and security controls
- Streetworks and Public Interface Management
- Disinfection, chlorination, testing and commissioning
- Project Management Office - Programming, logistics, cost controls, QA

Our people are our greatest asset and creating the right environment for them to be innovative and to continuously improve as individuals with the business recognising, harnessing and developing their knowledge, is essential to delivering both business and people objectives. When appointed as Principal Contractor we take full responsibility for compliance with CDM Regulations and we are committed to ensuring health and safety is central to the design, build and management of our projects.

CDM requirements, including any changes, are fully incorporated into our Integrated Management System. We also take on the role of Principal Designer if requested to do so by our client and work closely with a small number of professional consultants who support us in this capacity. OCU operates an Integrated Management System (IMS), certified by an independent and accredited body. The IMS Manual includes procedures and documents specific to contract and is available on our Intranet. Our PMO tools enable us to coordinate project planning and control activities and the PMO teams carry out the following duties:-

- NRSWA noticing
- Planning and programme management (using P6 and MS Project)
- Traffic management and collation of TM drawings/diversionary routes
- Interface management co-ordinating stakeholder engagement activities
- Logistical support including plant, transport, specialist equipment and storage

OCU undertakes its own streetworks management and permitting and we interface with our clients and supply chain alongside our in-house management system DepotNet, which aligns with our operational tools such as hand-held tough-books and smart phone technology to record real-time progress, remote camera systems to investigate asset condition and CCTV to monitor onsite safety. OCU has received the Considerate Contractors Streetworks Highly Commended Gold Award for the last 6 years. Together with receiving the ROSPA Gold Award for the last 7 years, we demonstrate our commitment to SHEQ compliance, customer service and strategic supply chain management. Our resource has the capacity and expertise to provide robust and affordable integrated design and build solutions for our clients most valued asset base. This in turn support our client's drive in the pursuit of customer excellence and exemplary regulatory compliance.

## 5. Financials

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The OCU turnover exceeds £400m per annum and our business successfully delivers complex major projects in excess of £10m along with multiple schemes within framework contracts typically generating over £100m per annum. Detailed report and account information is available and can be provided on request.

## 6. Insurances

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Insurance cover held by OCU is renewed on 1<sup>st</sup> March annually by our brokers UK & Ireland includes [but is not limited to]:-

- Contractor's all risks: £25m
- Employers liability: £10m
- Professional indemnity: <£10m
- Public liability and products: £20m

Full details of this and other specialist insurance cover held by OCU are available on request.

## 7. Assurances

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### Rail Sector

- Network Rail Principal Contractor Licence Holder
- Railway Group Standards (RSSB), Company Standards (Network Rail) and National Hazard Directory - Direct online access
- Network Rail's Possession Planning System (PPS) - Direct online access
- OCU also employs a number of Contractor's Responsible Engineers (CREs) for both design and installation roles

## 8. Project Management Office (PMO)

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### Project Controls & Planning

OCU employs dedicated and experienced Project Planners within our PMO with cross-matrix responsibilities for both the individual Project Teams and the Planning function. The planning process is embedded into the organisation from Tender stage through to project completion in an integrative manner involving all stakeholders. It is closely linked to meeting both internal and client requirements in terms of Programme Management and Project Control. Supporting the process, Primavera is the standard planning software for the organisation, providing robust time and resource management for each individual project.

Furthermore, the portfolios of project programmes are managed using the Enterprise functionality allowing the organisation to provide the ultimate service across the board. With P6 also being used extensively throughout the rail industry, our capability and experience allows close integration with the client, in turn contributing to overall success. The following tools and techniques are used and incorporated into the process:-

- Work Breakdown Structure (WBS)
- Critical Path Analysis
- Earned Value Analysis
- Resource/Cost Loading
- Programme Configuration Control

## 9. Design

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OCU has experience of utilising BIM/CAD and we are fully conversant in the following CAD applications:-

- Cable System Design CYMCAP
- Bentley Microstation V8i - Full 3D/BIM capability
- Bentley Building Electrical (3D/BIM)
- Bentley Building Mechanical (3D/BIM)
- Bentley Acosim (3D/BIM)

- AutoCAD Revit (3D/BIM)
- Cad Duct
- Projectwise Management System (Bentley)

## 10. Memberships

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- British Quality Foundation
- BSI Standards Membership
- Building Services Research and Information Association (BSRIA)
- COMIT (Construction Opportunities for Mobile IT)
- Constructing Excellence
- Constructionline
- CompeteFor
- Council of Registered Gas Installers (CORGI)
- Electrical Contractors' Association
- Engineering Construction Industry Training Board
- Heating and Ventilating Contractors Association (HVCA)
- Institute of Customer Service
- Institution of Electrical Engineers
- Joint Industry Board
- National Inspection Council for Electrical Installation (NICEIC)
- SELECT
- United Kingdom for the Society of Trenchless Technology (UKSTT)
- UK Green Building Council
- CIBSE Patron

In addition, OCU has a number of employees that are Chartered Members/Members of the following professional bodies and regularly attend their meetings as part of their on-going Continuing Professional Development (CPD):-

- Association for Project Management (APM)
- Chartered Institute of Building (CIOB)
- Institute of Civil Engineering (ICE)
- Chartered Institute of Purchasing & Supply
- Chartered Institution of Highways and Transportation
- Institution of Occupational Safety & Health
- Institute of Engineering and Technology IET
- Chartered Institute of Building Service Engineers CIBSE
- Chartered Management Institute (CMI)


## 11. Sustainability

### ECO Sustainability Strategy

ECO - Building Sustainable Infrastructure for future Generations

Environment	Communities	Operations
		
Reducing Impact	Enhancing Lives	Working Viably

ECO is the OCU Sustainability Strategy based upon 3 Pillars encompassing Environment to reduce the impact of our operations on the planet, Communities to enhance the lives of our employees and local communities in which we operate & Operations to ensure that we work efficiently and innovate to continually improve for a sustainable future. Each of these pillars is supported by 3 strategic objectives aligned with the guiding principles of the United Nations Sustainability Development Goals.

Environment - Reducing our Impact					
<i>Reducing Emissions</i>		<i>Preventing Damage</i>		<i>Conserving Natural Resources</i>	
	Reduction of Greenhouse Gas emissions towards Government targets of Carbon net Zero by 2050.		Avoiding detrimental activities to Land, Water, Heritage, and Eco-systems. Reducing use of Hazardous materials.		Monitoring and reducing water usage. Protecting & Enhancing Natural Resources.
Communities - Enhancing Lives					
<i>Valuing &amp; developing our workforce</i>		<i>Ensuring personal Wellbeing</i>		<i>Supporting Communities</i>	
	Paying a Living Wage. Ensuring Equality & Diversity in our workforce. Training & Development of our workforce.		Ensuring the Health & Safety of our workforce and those who may be affected by our operations. Protecting Human Rights in our supply chain.		Providing local Jobs for local people. Using Local Suppliers. Adding value through Volunteering, Charitable Work & Donations.
Operations - Working Viably					
<i>Reducing Waste</i>		<i>Encouraging Innovation</i>		<i>Collaborating with Stakeholders</i>	
	Zero avoidable waste to Landfill.		Identification and Development of sustainable solutions.		Working with Clients and Supply Chain to achieve common goals.

## 12. Supply Chain Management

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The key role for our procurement activities is to create a sustained competitive edge for OCU by managing the acquisition of all externally supplied resources upon which the business depends both now and in the future. The Senior Leadership Team believes that applying best – practice methods to the process of selecting and managing our suppliers is a major contributor to our long – term business success.

This will be seen in better solutions for our clients, faster deployment of innovation, low total costs, lower risk and enhanced contribution to our goals. The Procurement Team is responsible for ensuring best value is achieved for OCU, this applies to goods and services associated with operational or overhead spend. To ensure we consistently achieve best value: we operate an approved supplier list, agree T&C's and pricing, work with internal stakeholders to review and monitor supplier performance, carry out audits on suppliers, continually review potential new products and sources of supply. We work across many different departments and recognise that each has their own exacting needs and demands from the supply chain, we provide specialist support, advice and expertise to Project Managers.

Our Supply Chain Management Teams are MCIPS qualified and utilise accepted best practice to drive innovation and achieve a differentiation from our supply base. We also aggregate our spend portfolio group-wide in order to leverage the market more effectively, this ensures we are maximising our utilisation of optimum suppliers and delivering best value throughout the project cycle. All projects are allocated a procurement lead prior to design commencement (or pre-commencement where the client has already undertaken the design) this individual's responsibility is to develop the project procurement strategy and ensure we achieve the best commercial and technological results for the project. Key projects are allocated procurement resource who will be site based as appropriate to ensure a consistent approach OCU's procurement procedures are cascaded from group level and utilise best practice from across industry to ensure we achieve differentiation from our supply chain, as well as effectively protecting the interests of ourselves and our clients. The OCU Procurement Teams are actively involved with the construction planning process to ensure timely deliveries of key materials (especially those sitting on the critical path). At the initial programme development stage the procurement lead is responsible for the issuing of manufacturers lead-in times to the project planner, these are then incorporated into the baseline construction programme. At all stages through the project this document is utilised as the key tool to ensure the procurement and expediting of materials is undertaken as timely and efficiently as possible. These key dates will also include any commissioning/erection periods as required.



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**Coverage:**



With depots  
strategically located  
throughout the UK, OCU  
can offer a Nationwide  
Service

**Sectors:**

OCU offers infrastructure  
services across the following  
sectors:

- Power
- Energy Transition
- Water & Wastewater
- Telecoms
- Rail
- Trenchless