



Veolia Water Ireland

Global Knowledge
in Local Hands



- World leader in water services
- Operating in 64 countries
- Managing over 4,000 contracts
- Over 90,000 Employees
- 4 research centres
- More than 300 Patents
- 150 years experience

The image shows a close-up of a metallic, reflective surface, possibly a water tap or faucet. The Veolia logo, consisting of a stylized red swirl icon followed by the word "VEOLIA" in red capital letters, is prominently displayed. Below "VEOLIA", the word "WATER" is visible in smaller, grey capital letters. The background is a blurred, light-colored surface, and the overall lighting creates strong highlights and reflections on the metal.

Veolia Water

The World Leader in Water & Wastewater Services

Veolia Water is the water division of Veolia Environnement, global No. 1 in environmental services. We provide water expertise to all types of customers — large cities, water authorities, small communities as well as commercial and industrial companies.

When it comes to water and wastewater, no other company in the world can match our depth of resources or our ability to customise a long-term solution for your needs.



Our Commitment to Sustainable Development



Veolia Water has chosen to make sustainable development an integral part of the Company's strategy and also ensures that this approach is reflected in the management of its operations throughout the world.

This philosophy applies to all Veolia Water contracts, both municipal and industrial, and is implemented as follows:

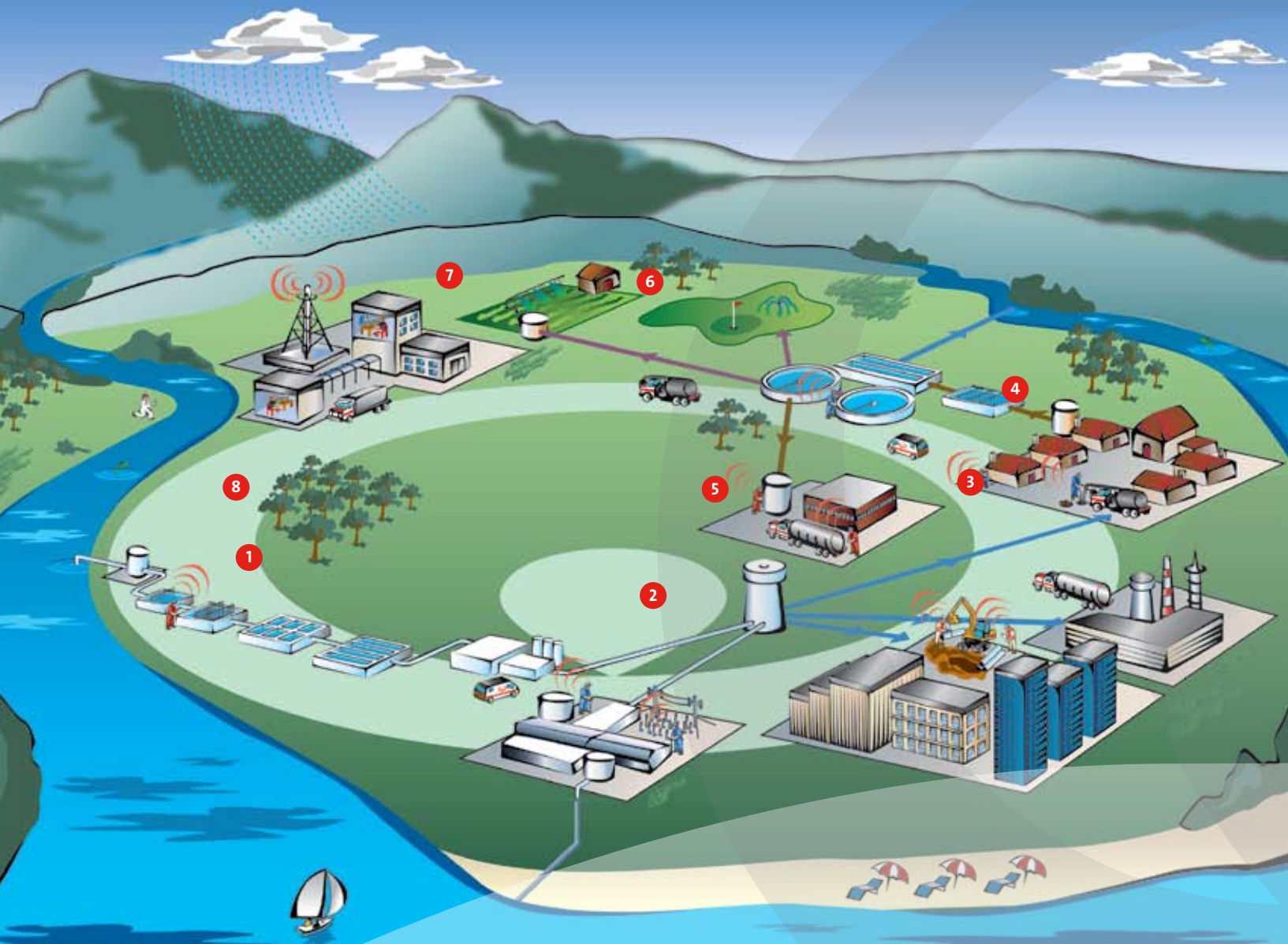
- Ensure sound and sustainable water management by protecting resources and reducing the impact on the natural environment
- Empower Veolia Water employees to build sustainable relationships with local communities and stakeholders through open dialogue
- Promote access to water and guarantee health standards through responsible corporate governance and provision of high quality water
- Development of technologies and processes to reduce the water footprint of communities and clients

These goals are integral to the issues facing all water stakeholders on every continent. Veolia Water plays a key part in implementing an appropriate sustainable development solution for more than 130 million people to whom we provide water and/or wastewater services.

Managing Your Water Cycle

Water quality, supply and sanitation are intimately linked. We offer a full range of solutions across the Water Cycle.

- 1 Water Treatment.**
Quality water through technology and operational excellence, including difficult-to-treat surface water sources and source water management.
- 2 Water Distribution.**
Multiple operational and asset services to ensure quality, costs and long-term care of assets.
- 3 Wastewater Collection.**
Specifically tailored solutions to ensure lower costs and customer service.
- 4 Wastewater Treatment.**
Protecting the community and environment while guaranteeing compliance.
- 5 Biosolids and Residuals Management.**
Nutrient-rich products for reuse or cost-effective, environmentally benign disposal.
- 6 Wastewater Reuse and Reclamation.**
Maximising potential water supplies.
- 7 Asset Management.**
Maximising asset life cycle and cost efficiency.
- 8 Customer Service.**
Responding to the customer in a timely fashion, from service issues to billing enquiries.



Creating Your Water Solutions

Water Service Consulting - Optimising Your Operations

Veolia Water combines technical innovation in design and construction with the experience gained from operating thousands of water service plants around the globe. Our Kilkenny-based team of experts, including engineers, chemists and operators, use this experience to offer technical and economic reviews that identify improvements that are both state-of-the-art and field-tested.

These reviews allow clients a low cost method to leverage our unique experience to assess their plants for energy efficiency, productivity, reliability and compliance.



Turnkey Engineering

Our range of Engineering Services include modular and customised integrated systems for both drinking water and wastewater. Our excellent project delivery standards guarantee our clients quality of service and value for money.

Our Services

Identification of the customer's needs - match water quality needs to process solutions

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Choice of technology, process and system design and project implementation

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Contract management

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Commissioning and performance proving

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Optimisation of process and energy usage.

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Plant Operation & Maintenance

Innovation through Research

Veolia Water Ireland is able to draw upon a global portfolio of over 250 technologies and upon extensive field experience to meet the diverse needs of its customers.

Driving Veolia Water's technological expertise is the commitment to research and development. Anjou Recherche is one of four Veolia Water Research and Development Centres. Its team of 110 researchers develop new technologies for drinking and wastewater treatment in anticipation of future global requirements. Veolia Water uses a range of technologies for treatment of water, wastewater and sludge to meet the most stringent standards required. These solutions include conventional treatments and Veolia-developed technologies. They include:

WASTEWATER

CONVENTIONAL TREATMENTS

SBR, Activated Sludge, Contact Stabilisation, Clarification.

BIOSEP®: Immersed membrane Bioreactor (MBR) for stringent discharge requirement.

BIOSTYR®/BIOSAF®: Compact biological aerated filter (BAF) for enhanced wastewater treatment.

EVALED®: Evaporation and crystallization of concentrated effluent such as landfill leachate (ZLD solution).

EcoDisk®: Rotating Biological Contactors (RBC) for wastewater treatment treatment.

Hydrotech®: Disc Filter Tertiary treatment capable of producing effluent with both low turbidity and low total suspended solids.

Anaerobic technologies (Biethane): Anaerobic digestion for treatment of organic effluents sludge, producing "green energy".

Moving Bed Bio Reactor (MBBR)®: Fixed biofilm systems, ideal for plant upgrades.

WATER

ACTIFLO®: High-rate lamella clarification for drinking water production.

HIGH RATE DISSOLVED AIR FLOTATION:

Modular solution for clarification of municipal and industrial water & wastewaters.

FILTRATION: Removal of particulate matter including micro-organisms using conventional or patented technologies.

SPECIFIC TREATMENTS FOR REMOVAL OF

CONTAMINANTS: Softening, UV, Ion Exchange, Membrane Filtration/Reverse Osmosis.

MOBILE WATER TREATMENT SOLUTIONS

SLUDGE

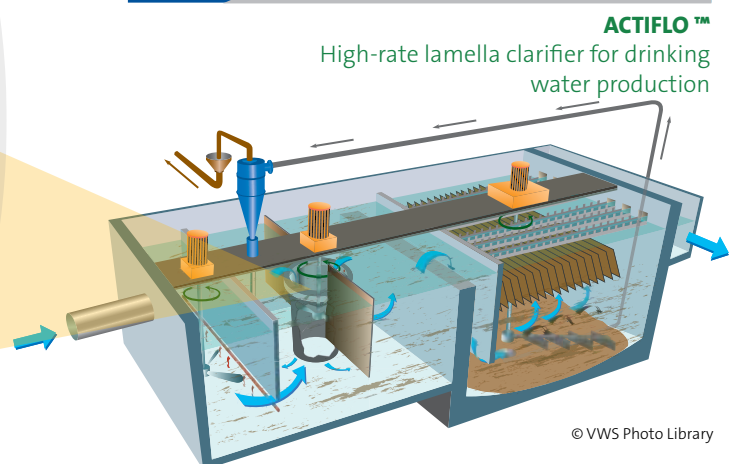
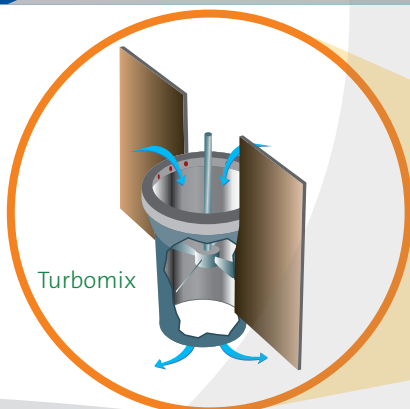
CONVENTIONAL TREATMENTS: Sludge thickening and dewatering.

ATHOS®: Wet Oxygen & biological oxidation to produce clean gaseous emission and inert residue.

BIOCON®: Low temperature belt dryer with option for incineration module.

PYROFLUID®: Fluidised-bed sludge incinerator for sludge.

ANAEROBIC DIGESTION



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Mobile Service Engineers

Commitment to Service

Veolia Water Ireland's Service Department offers the highest levels of on-site support nationwide to ensure the reliability and efficiency of client plant assets. Our Mobile Service Engineers, backed by a dedicated Service Manager and our engineering team, provide a 24/7 call out service with a committed time response. Regular on-site visits for preventative maintenance, equipment checks and calibrations ensure optimum performance of client assets. Whether fault repair, emergency spares or over-the-phone advice is required, Veolia Water Ireland is available with support, tailored to client-specific technical requirements and budgets.



Our Range of Services:

Mechanical Service Agreements

Electrical/Instrumentation Service Agreements

Disinfection Systems

Instrumentation

Scada/PLC

Telemetry (GSM, GPRS and Web-based)

Consumable & Spare Parts

Our Mechanical and Electrical Service Agreements together provide our clients with a convenient, flexible full-service offering for both maintenance and consumable needs. We guarantee a dedicated Veolia technical expert from our Service Department whatever the requirement, be it mechanical, electrical or instrument based.

We also offer consultation services for plant and system refurbishments and upgrades to optimise the performance of water treatment plants and ensure water treatment standards are met.

From technical audit, to procurement, to installation, Veolia Water Ireland can deliver and guarantee our clients peace of mind through cost efficient, seamless service.





Scope of Services

Veolia Water Ireland offers a full suite of services to Municipal Clients, covering all aspects of the Design Build Operate contract model. This capability ensures a complete life cycle approach to design and construction with fully integrated support throughout the operations phase.

Our scope includes potable/ process water, wastewater and sludge management services, in addition to metering and billing contracts for local authorities.

Through our sister company SEDE we also offer sludge recycling and reuse, primarily through landspreading on agricultural lands.

In recent years, Veolia Water Ireland has been awarded a number of DBO (Design Build & Operate) contracts in Ireland. The operations phase of these contracts are typically for a 20 year term.

We currently have over 80 staff operating more than 30 plants within Ireland, encompassing wastewater, potable water and sludge treatment. Our operating contracts provide services for a population equivalent of close to 1,000,000 people in the Republic of Ireland. Our expertise allows us to ensure that our clients' assets are maintained and operated in accordance with the Performance Management System as set out by the Water Services National Training Group.

We leverage the experience, stability and geographical coverage of these 20 year operating contracts to offer present and future customers a cost effective outsourcing solution.

Municipal References:

Clareville Water Treatment Plant Upgrade (Limerick Water Supply) (87 Million litres/day)

Mullingar Wastewater Treatment (55,000 PE) Plant and Sludge Hub Centre (103,000 PE)

Wicklow Wastewater Treatment (34,000 PE) Plant and Sludge Hub Centre (68,000 PE)

Dungarvan Wastewater Treatment (25,000 PE) Plant and Sludge Hub Facility (80,000 PE)

Monaghan Pilot for Group Water Schemes (12 plants, 25,000 PE)

Castlebar Wastewater Treatment Plant (33,000 PE)

Osberstown Sludge Treatment Facility (375,000 PE)

Billing & Metering Contracts in Galway, Roscommon and Sligo

Scope of Services

Veolia Water has a wealth of experience in industrial markets and offers solutions ranging from pilot plants through to full-scale turn-key design and build projects.

Our industrial clients trust us to:

- Supply process water to client specifications
- Treat wastewater and sludge
- Recycle/reuse treated effluent
- Manage all stages of the water cycle

Outsourcing water services enables industrial customers to concentrate on their core activities while at the same time benefiting from guaranteed technical and financial results and compliance with environmental regulations.

Veolia Water Ireland offers all aspects of Design Build & Operate along with the coverage of mobile service engineers to Industrial Clients.

Integrated Solutions

Veolia Water combines design and construction technical innovation with the experience gained from operating thousands of water service plants worldwide. Our team of experts, based in Kilkenny, use this experience to offer technical and economic reviews that identify improvements that are both state-of-the-art and field-tested.

Together with sister companies, Veolia Energy/Dalkia and Veolia Environmental Services, Veolia Water can coordinate and deliver a multi-utility strategy (water/energy/waste) for all your environmental services needs with just one point of contact.

Veolia Water Ireland has provided industrial solutions to some of Ireland's leading blue chip clients. Veolia Water serves industry in the following sectors;

- Food & Beverage/Dairy
- Oil & Gas
- Pharmaceutical
- Chemical
- Primary Metals
- Biofuels
- Micro Electronics
- Power
- Pulp & Paper





Some companies worry about the environment. Veolia Environnement looks after it.

Environmental services are our only business. We are the only global company to work in all four fields: water, energy, waste management and transportation. With 336,000 employees in 72 countries around the world, Veolia Environnement offers its public and private clients comprehensive solutions that meet their specific requirements.

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