

WATER TREATMENT EXPERTS FOR THE NUCLEAR POWER SECTOR

Developed partnerships with key customers, suppliers and agents whom we work with over and over again.

Learnt how our clients like things done, and our suppliers know how we like things done.

Maintained local knowledge and contact through established distribution channels.



Adding value through
quality and reliability

NUCLEAR POWER SECTOR



CREATING VALUE IN WATER

THROUGH INNOVATION, CREATIVITY AND EXPERTISE

Ovivo is a company with technically and commercially excellent people who embody its core values. Our engineers are encouraged to challenge the status quo and to exhibit an enterprising spirit to innovate and lead our customers to a solution that offers best value. This value may be in the recovery of waste; the reuse of water; a holistic approach to water and wastewater or improved efficiency and operational costs; not just a low capital cost.

We place our engineers in easy reach of unrivalled heritage and experience and empower them to access this specialist knowledge wherever it exists globally within the company, providing a level of service that is fast, proven and accurate.

Ovivo defines its raison d'être in its vision: to create value in water. This is reflected in every aspect of our business; as we drive new efficiencies and value into the design of water and wastewater solutions. Core to this is our people; our brand humanizes and differentiates our global business; taking the emphasis away from equipment and focusing upon the "how" rather than the "what".

IT IS ALL PART OF OUR HERITAGE

Many of our customers, suppliers and agents have been working continually with Ovivo and its heritage brands

Brackett Green®

Kennicott®

Christ Water Technology®

for many years and this is key to our successes. The in depth knowledge of the issues that our customers face with water and wastewater treatment and our extensive product range enables us to offer complete flowsheet solutions either using our own in house developed technologies or those from our partners.

The fluidity of Ovivo's innovative culture, allows us to change shape to meet the needs of the sectors and to bring new efficiencies and lower lifetime costs.

CUSTOMER SERVICE

Ovivo concentrates very much on Aftermarket and after sales service and are looking to add value in this area too from the simple supply of spares through refurbishments to maintenance contracts.



"OUR COMPETITIVE ADVANTAGE AS A CHALLENGER BRAND."

OUR ROLE IN THE NUCLEAR SECTOR

AS WE RESPOND TO AN IMPERATIVE, OUR THIRST FOR ENERGY, NUCLEAR POWER GENERATION IS GAINING EVER GREATER FOCUS ON EVERY CONTINENT.

Between now and 2050, the world's population is estimated to swell towards 9 billion, consuming more energy than the combined total used in all previous history. Under prevailing patterns of energy use, the results will prove calamitous.

As we recognize nuclear power is an indispensable asset to meet these needs, it would not be possible without vast amounts of water in its generation. Water heats, it cools, it lubricates, and conditions; and during phase change drive turbines; it washes away impurities. Ovivo is able to manage water use at every stage of nuclear energy production.

By offering the complete flow sheet of equipment and expertise in all areas we are able to reduce overall plant water consumption and running costs.



ENGINEERING EXCELLENCE

Ovivo has experienced engineers who are fully conversant with the use of Computerized Fluid Dynamics (CFD), Finite Element Analysis (FEA) and Three Dimensional Computer Aided Design (3D-CAD). These tools and our engineer's ability to help ensure robust and reliable equipment which is seismically qualified to meet the requirements of the nominated nuclear design code. Ovivo companies have been key suppliers to the nuclear industry since its inception in the 50's (see over).

SAFETY & ENVIRONMENT FOCUSED

Ovivo are fully conversant with the imperatives of Safety within the Nuclear Industry. Most Ovivo entities have robust business processes that are in line with the requirements of ISO18001 for Health and Safety Management and ISO 14001 for Environmental Management. Ovivo implement robust business processes to ensure this, including the use of Design Risk Assessments, HAZOP analysis and analyze Full Method Statements, to arrive at safe procedures for safe installation and commissioning at site.

QUALITY FOCUSED

Ovivo entities pride themselves on a robust quality culture with most operating quality management processes in line with the requirements of ISO 9001 to ensure timely delivery of equipment compliant with the relevant standards and requirements. Local quality control is implemented wherever we manufacture in line with thoroughly documented Quality Plans. Material traceability and document control systems support a right first time, every time ethos of operational excellence and constant improvement.

NUCLEAR STANDARDS

Ovivo have worked with the various required standards for Mechanical and Electrical design be they safety related or not. We have experience of supplying equipment to meet international technical requirements of ASME III, RCC-M/RCC-E and various national regulatory requirements such as the Finish STUK codes.

APPLICATIONS

Ovivo through its group of companies can help with the specification and design of most of the water treatment equipment found on a nuclear power plant. Including:

Cooling Water Intake Screening Systems

Drum or Band Type with Fish Recovery and Return.

Cooling Circuit Conditioning

Biodegradable Mexel 432® treatment prevents biological growth.

Auxiliary Cooling Circuit Treatment

Fully Automatic, High Capacity Backwashing Strainers.

Condenser Protection

Fully Automatic Self Cleaning Debris Filters.

Condenser Tube Cleaning

Fully Automatic Ball type On-Line Tube Cleaning System.

Steam Generator Make-up systems

Purifying seawater, surface water or potable water feed sources. A multitude of robust technologies available including, pretreatment, membrane and ion exchange based processes.

Condensate Polishing

Particulate Filtration, Internal and External Regeneration based on CONESEF® technology.

Side Stream Filtration

Pressure Sand Filters to limit solids in cooling systems.

Wastewater Treatment

Bespoke systems of Ovivo equipment as required.

Storage Pond Water Treatment

Recirculation and removal of ionic impurities.

OUR REFERENCES

200+ YEARS OF HERITAGE • 100% FOCUSED ON WATER

Reactor Cooling Water	Cooling Water Intake	1960's	Hunterston B UK	
1968	Hinkley Point B UK	1962	Dungeness A UK	
1971	Heysham I UK	1963	Oldbury UK	
1980	Qin Shan Nuclear China	1968	Hinkley Point B UK	
1980	Torness UK	1971	Heysham I UK	
1997	Ling Ao I China	1973	Hartlepool UK	
Boiler Make Up	1961	Dungeness A UK	Effluent Treatment	
1958	Berkeley UK	1961	Sizewell A UK	
1960's	Hunterston B UK	1963	Oldbury UK	
1960's	Kahl Germany	1963	Wylfa UK	
1961	Dungeness A UK	1966	Dungeness B UK	
1963	Oldbury UK	1967	Downreay UK	
1970's	Gösgen Switzerland	1968	Hinkley Point B UK	
1970's	Gundremmingen B+C	1968	Hunterston B UK	
1970's	Heysham II UK	1969	Hartlepool UK	
1973	Hartlepool UK	1970	Doel Belgium	
1980's	Hunterston B UK	1971	Heysham I UK	
1980's	Isar II Germany	1971	Ko-Ri Korea	
1980's	Leibstadt Germany	1972	Hartlepool UK	
1980's	MHK, Coburg Germany	1978	Koeberg South Africa	
1987	Sizewell B UK	1978	Ko-Ri Korea	
2006	Leibstadt Switzerland	1979	Koeberg South Africa	
2007	Beznau I Switzerland	1979	Winscale UK	
2008	Beznau II Switzerland	1980	HMS Vulcan UK	
Condensate Polishing	1980	Torness UK	1970's	Heysham II UK
1960's	Hunterston B UK	1985	Hunterston B UK	
1963	Oldbury UK	1987	Mühleberg Switzerland	
1970's	Heysham II UK	1987	Heysham I UK	
1970's	Isar I Germany	1989	Hartlepool UK	
1970's	Leibstadt Switzerland	1994	Torness UK	
1970's	Loviisa II Finland	1985	Calder Bridge UK	
1970's	Mühleberg Switzerland	1987	Sizewell B UK	
1970's	Philippsburg Germany	1989	Indian Point USA	
1970's	Würgassen Germany	1994	Pickering OPG Canada	
1980's	Brokdorf Germany	1994	Salem USA	
1980's	Daya Bay China	1996	Maine Yankee USA	
1987	Sizewell B UK	1997	Ling Ao I China	
1988	Wylfa UK	2001	Quad Cities USA	
1994	Würgassen Germany	2003	Lungmen Taiwan	
1995	Leibstadt Switzerland	2004	Cooper USA	
1997	Ling Ao I China	2004	Olkiluoto III Finland	
1998	Beznau II Switzerland	2005	Ling Ao II China	
		2005	Olkiluoto III Finland	
		2006	Oyster Creek USA	
		2008	Diablo Canyon USA	
	Cooling Water Make Up and Treatment	1980's	Reactor Water Treatment	
	1970's	1970's	Brunsbüttel Germany	
	1980's	1970's	Isar I Germany	
	Isar II Germany	1970's	Krümmel Germany	
		1970's	Leibstadt Switzerland	
		1970's	Loviisa I Finland	
		1970's	Mühleberg Switzerland	
		1970's	Philippsburg Germany	
		1970's	Würgassen Germany	
		1980's	Gundremmingen B + C Germany	
		1980's	Leibstadt Switzerland	
		2005	Olkiluoto III Finland	
		2008	Flamanville France	



LEARN MORE!
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