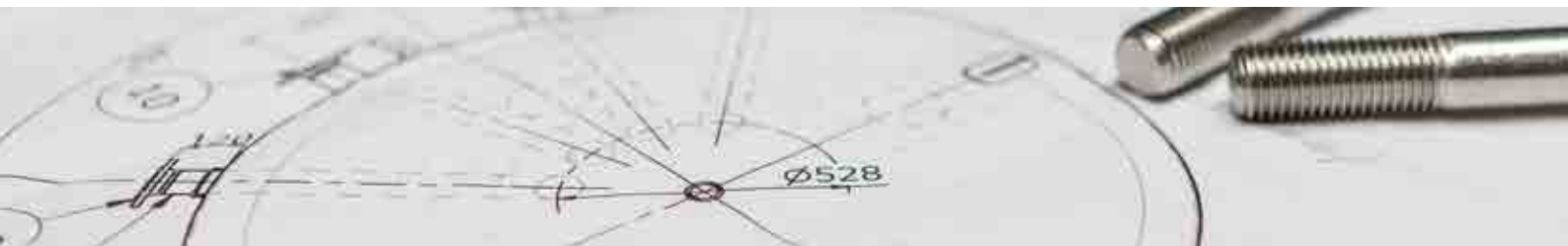




SÜLZLE KOPF

Plant Technology

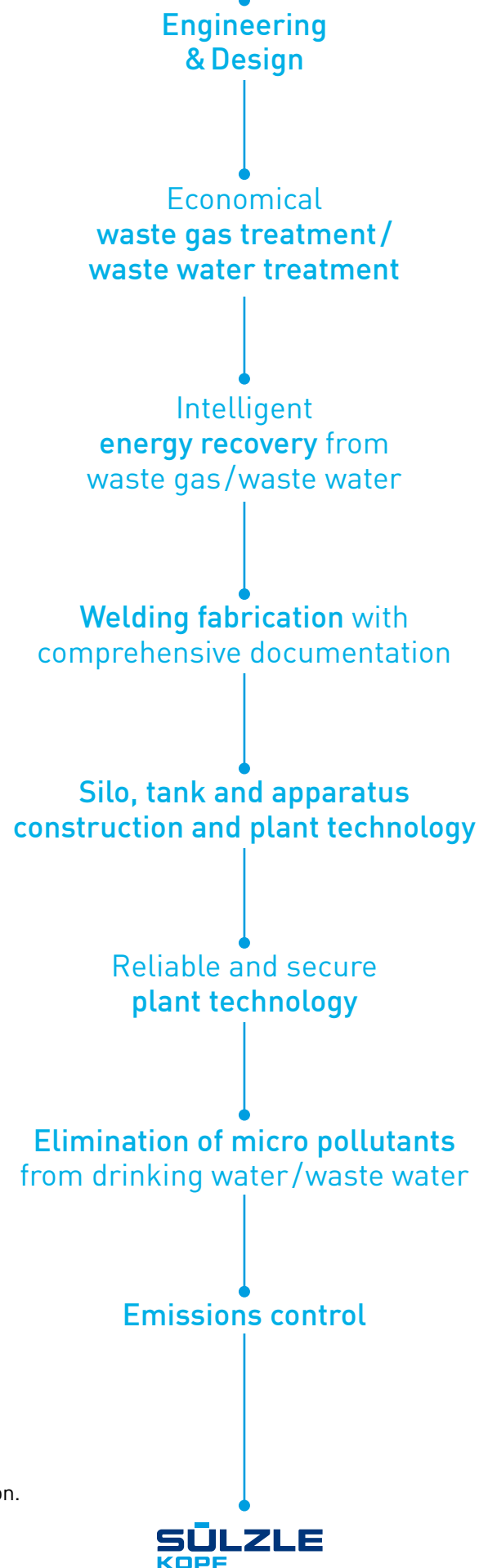
The Emissions Control Company





CONTENTS

04	Range of services
05	Preface
06	Welding fabrication: silo, tank and apparatus construction and plant technology
10	Process engineering: industrial and municipal water treatment, waste gas treatment
12	AK-DOS®, ABWATAR®
14	Key proficiencies
16	About us
18	KOPF engineering



RANGE OF SERVICES OF SÜLZLE KOPF ANLAGENBAU

We offer you a combination of expertise in innovative and reliable process design and constructive implementation methods as well as own welding engineering fabrication. This makes us specialists in the following areas.

CUTTING-EDGE TECHNOLOGIES



Heinrich Sülzle
Owner of SÜLZLE Group



Andreas Sülzle
Owner of SÜLZLE Group

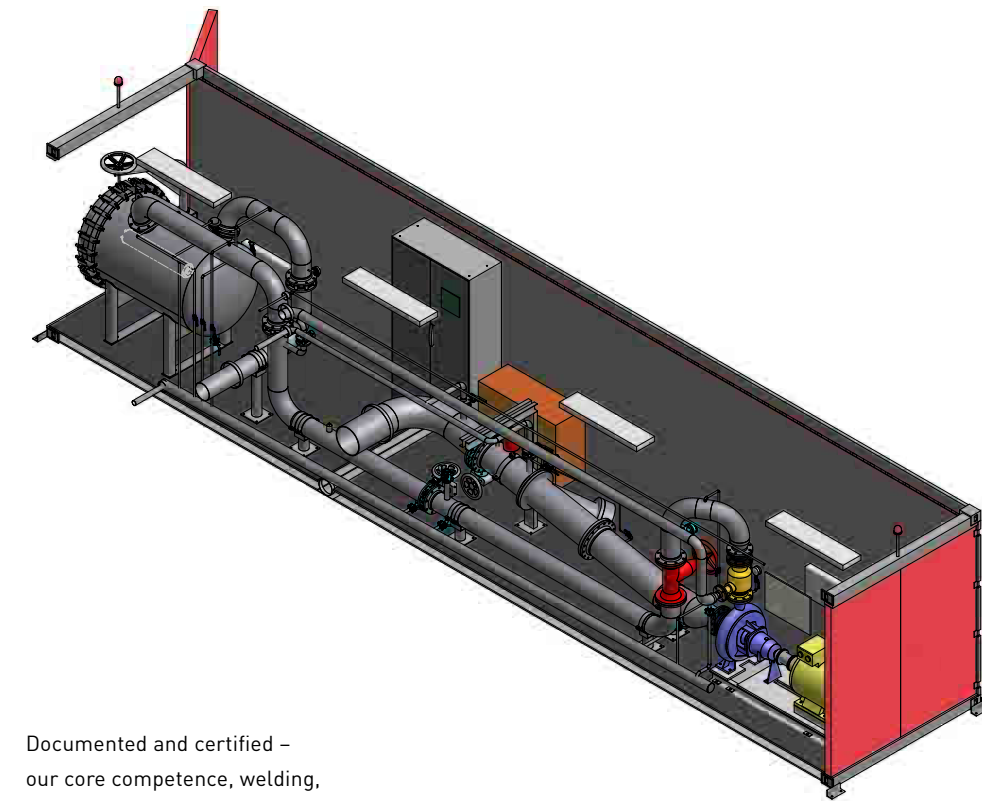
...for a clean environment.

The protection of natural resources is as urgent as it is complex – on the one hand, to be target-oriented and effective, it requires in-depth knowledge of ecological and technological processes. On the other hand, it is an conceptual investment in the future and an economic investment in the present.

We are convinced that the development and implementation of cutting-edge technologies requires both specialised experts and multi-talented individuals. This is the only way for a project to become sustainably successful and for an idea to be manifested in a state-of-the-art manner. For this reason, at SÜLZLE KOPF Anlagenbau your projects are handled by engineers as well as construction mechanics or project managers. Each with his/her own expertise and all with the aim of finding a sustainable solution to your task. Our core competences are our expertise coupled with our customer-orientation, from the process engineering design, development and construction to production processes with our own welding fabrication, maintenance and service offers. SÜLZLE KOPF stands for clean solutions in line with the highest safety and quality standards. Our customers appreciate the secure continuous operation, low maintenance and high cost efficiency of our products – for example, ABWATAR® for energy recovery and AK-DOS® for the elimination of micro pollutants.

Most importantly, however, we are a reliable partner at your side – we make your task our mission and utilise our network to ensure the success of your project. As part of the SÜLZLE Group, SÜLZLE KOPF Anlagenbau has close connections to building services engineering experts as well as international partners.

Join us in laying the groundwork for tomorrow's clean environment.



Latest planning tools
3D-CAD

Documented and certified –
our core competence, welding,
meets the highest quality demands



WELDING FABRICATION: SILO, TANK AND APPARATUS CONSTRUCTION AND PLANT TECHNOLOGY

As a leading plant technology company, we design and develop customised solutions for your individual requirements. We realise that the quality of a solution is not based solely on its degree of innovation and efficiency, but also on its reliability and safety. This is why we at SÜLZLE KOPF Anlagenbau employ our own in-house welding fabrication, apparatus construction and fitting teams. This allows us to reliably offer you certified and precisely documented quality from individual pieces of equipment to turn-key plants. The excellent reputation of our construction mechanics and engineers allows us to offer a range of welding services that extends

far beyond the implementation of our own process plants – we are also your reliable partner in planning, consulting and manufacturing of instruments, pressure vessels, tanks and pipework systems. On request, we can build customised systems around your core operation, for example – whether they are dispersion, weighing or thermal systems. In addition, we operate as dependable network partners with other companies in the OEM business, and thus in every area where quality and security are key issues.



Example: a tubular heat exchanger

Relying on the latest welding technologies and our many years of practical experience, we specialise in all material combinations of steel and stainless steel. Our special expertise lies in the production of stainless steel products in all alloys, building components made of high-strength materials and the construction of apparatus for all types of technical requirements. Beyond that, we co-operate with selected partners to offer you surface refinement options such as zinc plating, pickling, coating or rubber coating, along with plastic construction.



Reliable comprehensive solutions from consulting and planning up to manufacturing, assembly and initial start-up.

Let SÜLZLE KOPF Anlagenbau introduce you to safe and efficient solutions for waste water/drinking water treatments, geothermal energy, hydrodynamic power, industrial exhaust air and waste water purification, as well as medical technology and solutions for the pharmaceutical, chemical and beverage industries:

- Pipe fittings according to AD 2000 or TRD made of steel, stainless steel and duplex steels
- Manufacturing and pre-fitting of complete modules at our own factory
- Pressure containers, non-pressurised containers, as well as filter vessels made of all weldable steels, W1 to W11 in compliance with DIN CEN ISO/TR 15608 in all combinations and including all required documentation and tests

On request: High-pressure tests, test inspectorate (TÜV) approval or X-ray inspections, CAD design drawings, strength calculations, statics or test inspectorate (TÜV) approval, corrosion protection based on customer specifications.

- Special steel and stainless steel constructions
- Apparatus, silo and tank construction: pumping stations incl. piping and steel frames, high-pressure pipes up to 750 bar, mechanical conveying management systems, rinse tank systems and completely pre-assembled container systems

AVAILABLE RESO RCES

PROCESS ENGINEERING

Every idea is based on process-independent consulting. Combining our engineering expertise and many years of practical experience, we develop this idea further into the best possible process engineering solution. Implemented by our in-house welding fabrication department, the solution becomes a secure innovation that is distinguished by its high availability, precision and cost effectiveness. This is because we approach your task based on established solutions and current legal regulations coupled with the know-how of tomorrow. This enables us to guarantee that we are excellently positioned for the future and for environmental protection.

Our focus in process engineering:

- Waste gas treatment
- Industrial and municipal water treatment
- Elimination of micro pollutants
- Energy recovery
- Tunnel fire water lines
- Ozone destructor
- Tubular heat exchanger
- Reduction and elimination of emission sources





AK-DOS®

AK-DOS®

Some innovations create standards through efficiency. With **AK-DOS®** and **ABWATAR®**, SÜLZLE KOPF Anlagenbau offers processing solutions today with results that will be crucial tomorrow.

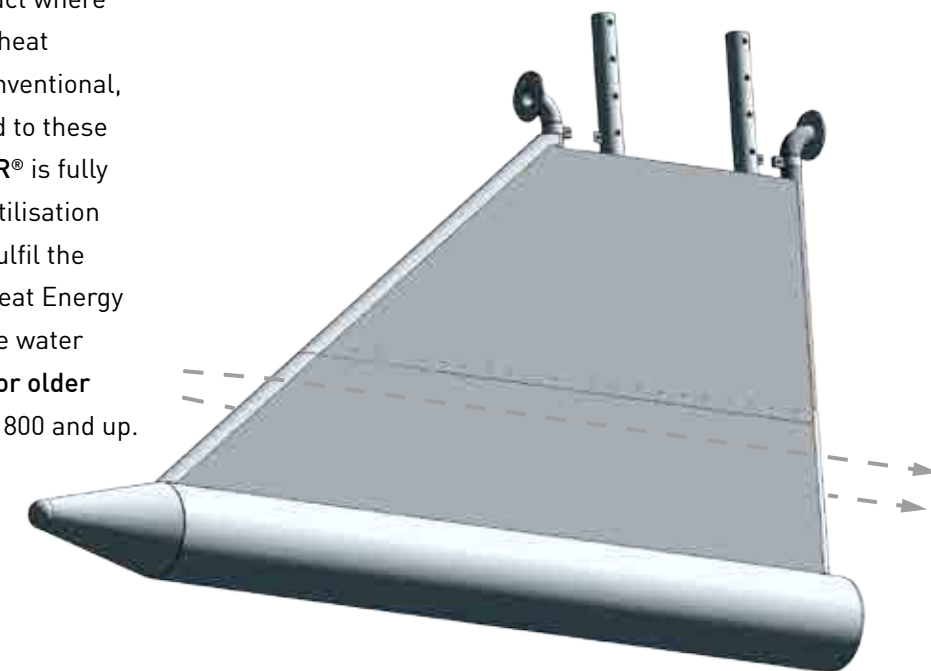
As the 4th purification stage, **AK-DOS®** reliably and efficiently eliminates micro pollutants from water. This is because the ready-to-use powdered activated carbon handling system adds the optimum quantity of powdered activated carbon, metered precisely to the gramme, to the waste water. As a result, **AK-DOS®** provides demonstrably improved water purity while being very cost-effective and environmentally friendly. This way, **AK-DOS®** offers technologies today in an area where the EU Directive 2013/39/EU will establish high standards regarding priority substances in the area of water policies in the future.



ABWATAR®

ABWATAR®

ABWATAR® is a special heat exchanger that can be retrofitted for waste water heat recovery in existing ducts. Its slim design in high-quality stainless steel allows it to be inserted through small inspection chambers. Placed at the centre of the duct where the flow is optimal, the torpedo-shaped heat exchanger has a heat yield similar to conventional, bulky plate heat exchangers. As opposed to these submerged systems, however, **ABWATAR®** is fully accessible for inspection. Waste water utilisation systems ecologically and economically fulfil the regulations of the German Renewable Heat Energy Act (EEWärmeG). With **ABWATAR®**, waste water utilisation systems also become viable for older duct systems with cross-sections of DN 800 and up.



PROFO UND KNOWLEDGE

KEY PROFICIENCIES

SÜLZLE KOPF Anlagenbau is a leading plant technology company, offering solutions for the treatment and control of emissions in the water (waste water) and air (waste gas) areas and for economical energy recovery that are applicable to the problems and megatrends of the future. The in-house welding fabrication, silo, tank and apparatus construction and plant technology provide sustainability through optimised documentation.

1. SAFETY

In each step of a project, we verifiably comply with legal regulations and machinery directives. In addition, risk analyses and explosion protection are integral components of the solutions we develop, while the detailed documentation renders the welding fabrication process transparent and reliable. In conclusion: As a plant technology company, we assume the responsibility for engineering in corrosive environments – be it through our component replacement service or the suitable selection of materials.

ENERGY
EFFICIENCY

SAFETY
STANDARDS

FINANCIAL
VIABILITY

PARTNER-
SHIPS

SUSTAIN-
ABILITY

QUALIFICATIONS AND PROFESSIONAL MEMBERSHIPS



2. COST-EFFECTIVENESS

Upon receiving an order, we offset the engineering costs and pay close attention to the financial viability of the systems in the planning process. Thanks to constructive implementation via in-house production processes with detailed documentation and expert fitting, our technology merges seamlessly with your processes. We improve your CO₂ savings through targeted emissions control, which enables the highest level of cost-effectiveness even after the initial start-up.

3. PARTNERSHIPS

SÜLZLE KOPF Anlagenbau is part of the global SÜLZLE Group and is also a specialised co-operation partner for production in the areas of waste gas treatment, waste water treatment, halogenated hydrocarbon and active carbon – we are a system partner and OEM supplier. At the same time, we are in constant contact with scientific and research institutions as well as universities and we also co-operate closely with engineering companies and municipalities. As a member of DWA, GWP, Figawa, DVS, WVIB and Umweltplattform Baden-Württemberg, we promote internationalisation and the transfer of knowledge, with a primary focus on the professional development of our employees and distribution partners.

ABOUT S

PROJECT: SETTING UP A 4TH PURIFICATION STAGE

“At the sewage plant of Böblingen-Sindelfingen, an active carbon absorption stage for the removal of micro pollutants was put into operation in October 2011. In addition to the required reaction tanks and sedimentation basins with a total volume of 9,000 m³, a storage vessel and metering system for powdered active carbon was required. We deliberately chose a storage vessel and metering system that was separate from the other premises of the sewage treatment plant and that had enough storage capacity to accommodate up to two road tankers with 18 t of powdered active carbon each. The precise metering of the specified active carbon amounts, as well as the secure and error-free operation of the system with the lowest possible maintenance requirements were very important to us. Even after an operating period of more than 2 years, the gravimetric metering system provided by Kopf optimally fulfilled these requirements.”

Gert Schwentner | Head of urban drainage, city of Sindelfingen

PROJECT: INSTALLING THE DRAINAGE SYSTEM AT THE STETTEN SALT MINE AND LAYING THE FIRE WATER LINE.

“Within the scope of our project, 1700 m of PE-pipelines SDR 11, DA 125 and approx. 960 m covered steel pipes in DN 50 were installed. In addition, the provided pumps were assembled and the complete associated pump piping was carried out. It was crucial not to impede the progress of the tunnel builders, therefore all work could only be carried out at night. In close co-operation with us, SÜZLE KOPF Anlagenbau carried this work out in a very competent and reliable manner, proving their great professional expertise.”

Alfred Höllerbauer | Mine manager of the Stetten salt mine, Wacker Chemie AG

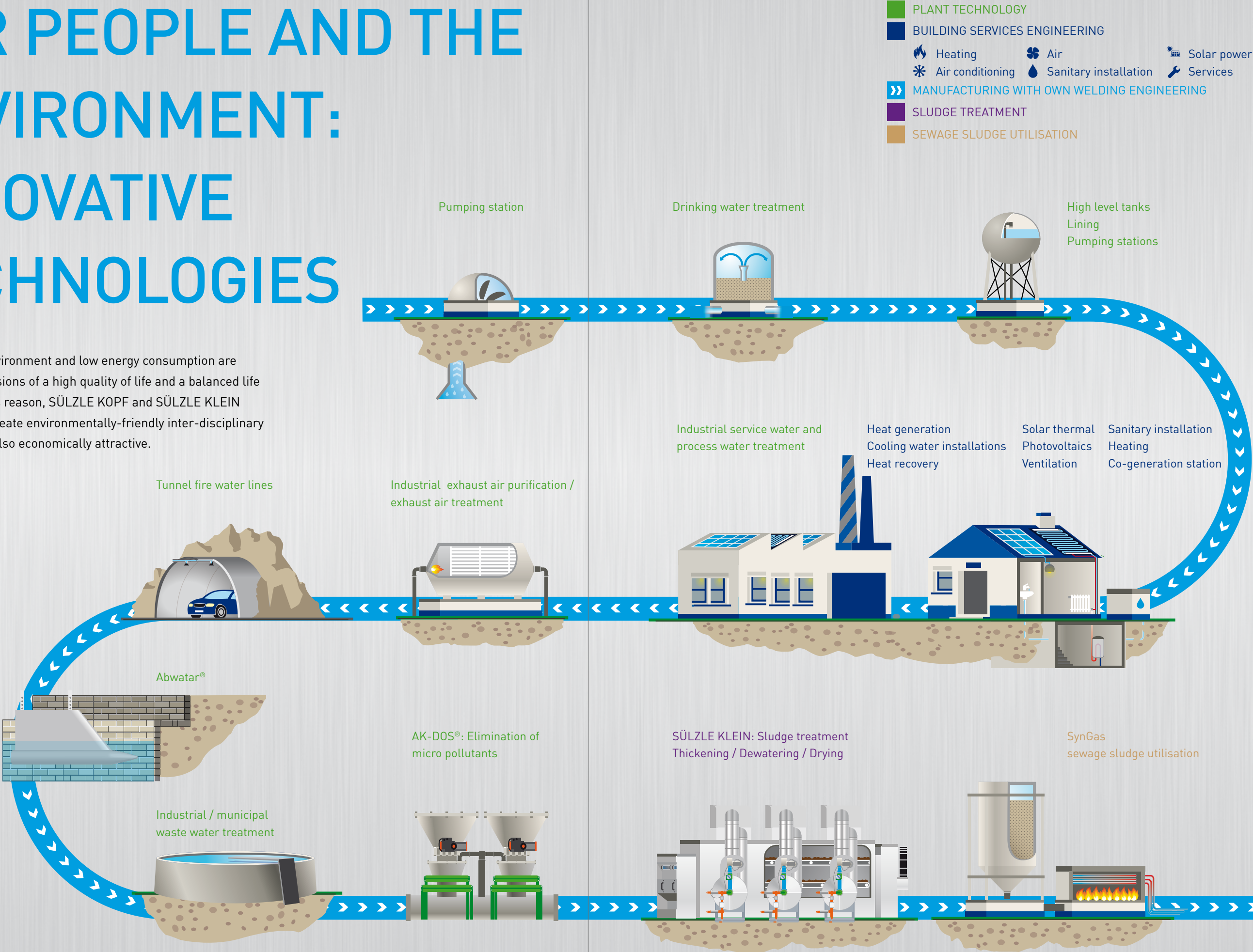
PROJECT: SUPPLY AND INSTALLATION OF THE DRY FIRE WATER LINE IN THE BIBRA TUNNEL

“The fire water supply line in the Bibra tunnel was implemented via a PE-HD main pipe with a nominal diameter of d 140. I want to particularly point out that the transitions to the subsequent stainless steel piping were specially designed by SÜZLE KOPF Anlagenbau in such a way that no detachable connections occurred in the PE-HD pipes that were installed in concrete. Despite the tight schedule, SÜZLE KOPF Anlagenbau reliably provided high-quality components on time. The stainless steel piping and the stainless steel fire water tanks were professionally produced in compliance with all applicable standards and technological regulations, as was the fitting under occasionally adverse conditions.”

Steffen Gräbitz | Project manager, Marti Tunnelbau AG

FOR PEOPLE AND THE ENVIRONMENT: INNOVATIVE TECHNOLOGIES

An intact, clean environment and low energy consumption are elementary expressions of a high quality of life and a balanced life philosophy. For this reason, SÜLZLE KOPF and SÜLZLE KLEIN work together to create environmentally-friendly inter-disciplinary concepts that are also economically attractive.





SÜLZLE

überzeugt.

STEEL ENERGY IDEAS

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