BAUER GROUP

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BAUER BG 39



THE BAUER GROUP

More than 230 years of company history demonstrate one thing above all: Innovation and adaptability are not just empty words for us, but values we truly live by. The BAUER name is now associated with the most difficult and largest foundation tasks around the world, which are executed with powerful, innovative and highly efficient equipment. We have also made a name for ourselves in environmental services and with products, services or projects for water and natural resources.

Our network

BAUER operates a worldwide network on all continents. The operations of the Group are divided into three future-oriented segments: Geotechnical Solutions, Equipment and Resources. BAUER profits greatly from the collaboration between its three separate business divisions, enabling the Group to position itself as an innovative and highly specialized provider of products and services for demanding projects in specialist foundation engineering works and related markets.

Our incentive

Whether it's urbanization, infrastructure, or energy, we offer the solutions needed to address the world's major challenges. Our employees around the globe, their commitment and expertise help to lay the foundation for our success, along with the trust our customers place in us every day. This trust is our incentive to do our best every day.

OUR COMPANY

The BAUER Group is a leading provider of equipment, products and services related to ground and groundwater. The Group's operations are organized into three forward-looking segments: Geotechnical Solutions, Equipment, and Resources.

BAUER GmbH & Co. KGaA is the holding company of the corporate group. It is responsible for the group's strategic direction and management, and it manages and monitors the operating segments as part of its investment control activities. In addition, it acts as a service provider, performing central administrative and support functions for the affiliated companies. BAUER GmbH & Co. KGaA is represented by its general partner, BAUER Management GmbH, which is represented by its managing directors.

Geotechnical Solutions

The **Geotechnical Solutions segment** offers new and innovative specialist foundation engineering services alongside the established ones, and carries out foundation and excavation work, cut-off walls and soil improvements worldwide.

Equipment

The **Equipment segment** is the provider for a full range of equipment for specialist foundation engineering as well as for the exploration, mining and extraction of natural resources.

Resources

The **Resources segment** delivers innovative products and services and acts with several business divisions and subsidiaries in the areas of drilling and water wells, environmental services, constructed wetlands, mining and rehabilitation.



At Bauer, we put people first. Every individual employee embodies our company culture and the values associated with it.

VALUES AND DIVERSITY MAKE US STRONG

Our Values

At BAUER, there are around 10,500 people from around 100 countries collaborating worldwide – in various divisions and roles, in different countries, with diverse ideas, strengths and interests. Our success is based on this strong international team and a diverse workforce that drives us forward. The diversity of the people at our company is one of our greatest strengths and one of the reasons we are proud to look back at more than 235 years of history.

- Down to earth
- Innovation
- Appreciation
- Openness
- Responsibility

AN EVENTFUL HISTORY

1790
Sebastian Bauer acquires a coppersmith's workshop in the center of Schrobenhausen



1902
Artesian well for the new Schrobenhausen train station





1928
Dipl.-Ing. Karl Bauer constructs the central water supply system for the town of Schrobenhausen



1956
Dr.-Ing. Karlheinz Bauer becomes sole managing director, orientation of company towards specialist foundation engineering

1958
Invention of injection anchor on the site of broadcaster Bayerischer Rundfunk in Munich



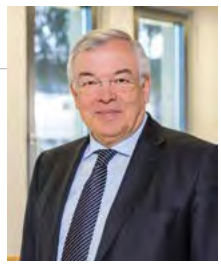
1969
BAUER starts manufacturing equipment, the first piece of machinery is the anchor drilling rig UBW 01

1971
BAUER anchors secure the tent roof at the olympic complex constructed in Munich in 1971





1976
The BAUER drilling rig BG 7 is manufactured in Schrobenhausen for the first time



1986
Prof. Thomas Bauer becomes sole managing director: Further international expansion of the BAUER Group

1994
Founding of BAUER AG as a holding company

2006
Initial public offering of BAUER AG in Frankfurt;
in 2023, the delisting from the regulated market took place

2007
Founding of BAUER Resources GmbH and thus a new strategic orientation with the three segments Geotechnical Solutions, Equipment and Resources

2012
The mark of 10,000 employees worldwide is exceeded for the first time

2013
Foundation work for the Lakhta Tower and the Jeddah Tower – the future highest buildings in Europe and the world



2019
BAUER cutter achieves new depth record of 251.4 m during a project in Canada

2021
The constructed wetland of BAUER Resources in Oman celebrates ten years of operation



BAUER Maschinen presents its first electric drilling rig eBG 33



2023
SCHACHTBAU NORDHAUSEN celebrates its 125th anniversary



2024
Work begins on the replacement of the Kriegenbrunn lock

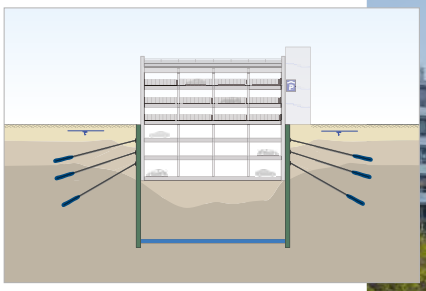
2025
BAUER Resources introduces a mobile soil washing plant for PFAS removal



2026
Start of the expansion of the machine plant in Aresing

With our conversion to BAUER GmbH & Co. KGaA, we are setting the course for the next phase of the company's development

WHAT IS SPECIALIST FOUNDATION ENGINEERING?



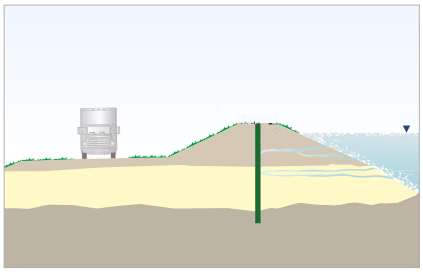


Excavation pits
The construction of excavation pits is one of the principal tasks in specialist foundation engineering. Depending on the requirements, this could involve, for example, the execution of soldier pile walls, Mixed-in-Place walls, sheet pile walls, bored pile walls, diaphragm walls or cut-off walls.

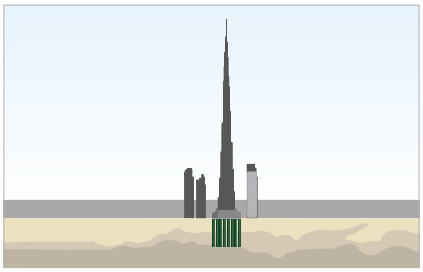




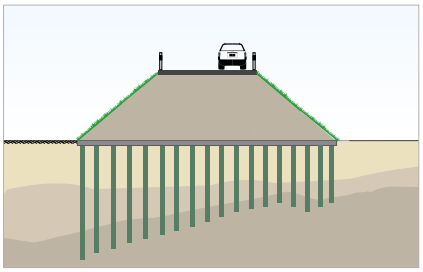




Cut-off walls
Cut-off walls of every kind are used, for example, to seal off reservoirs and dikes, for the encompassment of excavation pits or industrial facilities. In addition to their sealing function, they can also serve as structural elements.



Foundations
The loads of new structures are increasing. At the same time, more and more buildings are being constructed on soil with low bearing capacity. Pile foundations that extend to great depths enable even high loads to be safely transferred to soil layers with sufficient bearing capacity.



Soil improvement
When the soil has low bearing capacity, soil improvement can reduce settlement while also increasing the bearing capacity and stability of the subsoil.



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1 Electric-powered equipment is increasingly being used on construction sites. We, as well as our subsidiaries, therefore offer electric and hybrid equipment in our portfolio to provide our customers with the greatest possible flexibility.

2 Why remove excavated soil and deliver concrete when the existing soil can be used? The Mixed-in-Place (MIP) method developed by BAUER avoids laborious transport operations, lowers costs and relieves strain on site neighbors.

3 In the middle of the desert in Oman, a local subsidiary of BAUER Resources GmbH has been successfully operating the world's largest commercial reed bed treatment plant for more than ten years. With an area of 13.5 km^2, the plant is a flagship project for biological water treatment.

THE WORLD IS OUR MARKET

1.7 BILLION EUR
TOTAL GROUP REVENUES

FROM AROUND **100** COUNTRIES

AROUND **10,500** EMPLOYEES



- Geotechnical Solutions
- Equipment
- Resources

■ Production site



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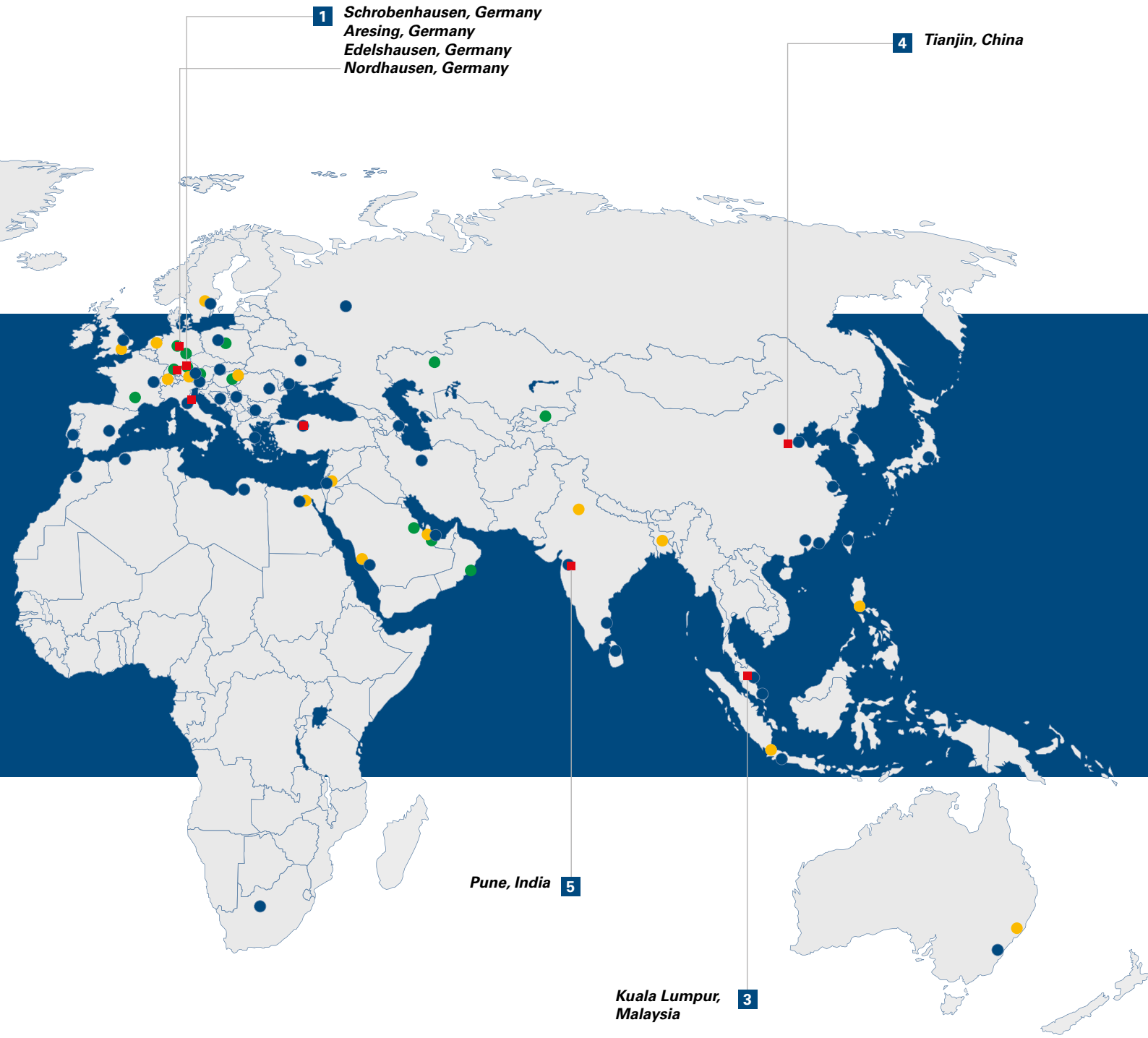
1 Schrobenhausen, Germany
Aresing, Germany
Edelshausen, Germany
Nordhausen, Germany
4 Tianjin, China
Pune, India 5
Kuala Lumpur, Malaysia 3



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ADDRESSING MAJOR TRENDS...

Major global trends such as rapidly progressing urbanization, infrastructure expansion, water extraction and treatment open up attractive business opportunities for BAUER. For instance, worldwide population growth and increasing urbanization require ongoing investments in complex construction projects. By 2050, the share of the world's population living in cities will be more than two thirds – an estimated 6.4 billion people. In 2018 the percentage was around 55%. Combined with the overall growth of the world population, this means that the population living in cities will nearly double. As a result, there is an increasing need for new and additional infrastructure in emerging economies as well as in established industrial nations. Given the fact that not even 1% of the total water deposits on earth are available to humans as freshwater, the availability of water resources will become even more important in the future, especially given the expectation of increasing droughts as a result of climate change.

Urbanization
Living space is becoming much more compact, increasingly taller buildings are being constructed in ever tighter conditions. BAUER offers the optimal solution for the foundation of any structure and also develops the right equipment for the construction of foundation elements and for the investigation and exploration of soils as well as subsoils. Where decommissioned and contaminated areas need to be revitalized for future use, BAUER helps with the rehabilitation of soil and groundwater. And when the goal is to utilize properties underground and up to their limits, BAUER is the right contact for excavation pit construction.



... WITH OUR EXPERTISE



Infrastructure expansion
The expansion of various transport systems never stops. Whether bridges, airports or railway lines, BAUER is involved in the foundations for numerous infrastructure projects. If these structures are getting older, we also take care of the replacement construction or rehabilitation. To move transport connections underground, BAUER carries out diaphragm wall work for floodgates, tunnels or subways. This work relies on the same equipment, developed in-house, for which BAUER is known as a world market leader.



Water extraction and treatment
Water is a vital yet limited resource. For this reason, water extraction and treatment also require highly specialized services from BAUER. From well materials and pipe systems to water distribution systems all the way to holistic solution systems for constant water supply, BAUER brings together numerous areas of expertise, which is important in times of increasing drought. Moreover, BAUER takes care of the decontamination of waste water. This encompasses the cleaning of contaminated waste water from the oil industry or polluted groundwater as a consequence of many years of operation of former refineries, gas plants or chemical facilities.



Focus on the future
Soil mixing methods such as BAUER's patented Cutter Soil Mixing (CSM) or the Mixed-in-Place (MIP) technique work directly with the existing soil: It is loosened and mixed with a self-hardening suspension. This allows the in-situ soil to be used as a component of the structure. Electric-powered machines also play an important role. BAUER and its subsidiaries offer electric and hybrid equipment. Another area of focus is the management of contaminated soil and water. Our experts handle the proper disposal of contaminated soil and sludge, as well as the biological treatment of contaminated water.



Operaparken, Denmark:
In Copenhagen, BAUER executed the diaphragm wall work for the "Operaparken" project. To construct 6,600 m² of diaphragm wall, a BAUER MC 96 duty-cycle crane with BC 48 cutter and an MC 76 with rope grab were used.

UNIQUE CONSTRUCTION PROJECTS

BAUER Spezialtiefbau GmbH has played a leading role in shaping the development of specialist foundation engineering and executes projects around the world. BAUER Spezialtiefbau is organized regionally in Germany and operates on all continents with more than fifty subsidiaries and branch offices. Networks all over the world make it possible to deploy equipment and know-how quickly and flexibly, and thus to always offer the technically and commercially optimal solution. Apart from all conventional methods, we also execute specialist foundation engineering techniques that were developed in-house. Our main services include all kinds of piles, anchors, diaphragm and cut-off walls as well as injections and vibration methods. The recognized quality of these trades is based on many years of experience, qualified employees and continual development work. We attach great value to the topic of digitalization and map complex excavation pits as a digital twin. We continually enhance our methods. Our central fields of work include executing complex excavation pits and foundations for large-scale infrastructure projects and buildings, as well as cut-off walls and soil improvements.


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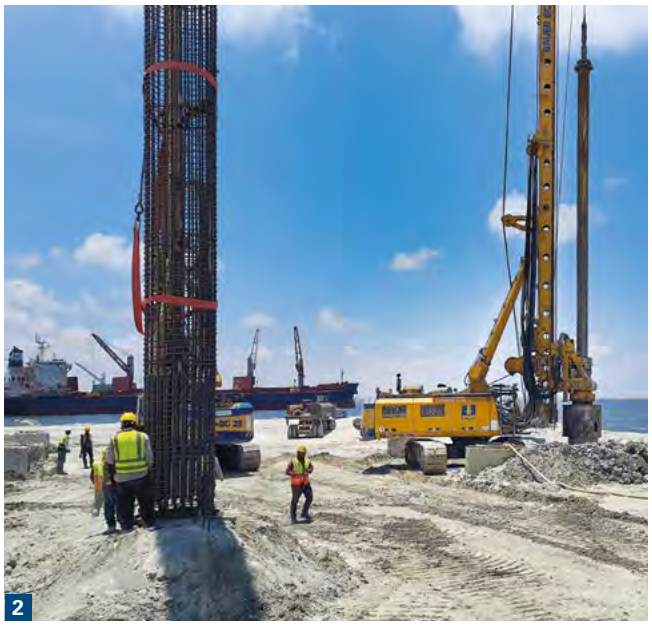
1 Parkstadt Schwabing, Munich:
For a 9 m deep excavation pit, BAUER constructed a 6,000 m² single-anchored Mixed-in-Place cut-off wall.

2 Port of Alexandria, Egypt:
For the construction of a quay wall encompassing 225,897 m³ in the port of Alexandria in Egypt, along with four trench cutters, two BAUER drilling rigs of type BG 28 were also used.

3 Herbert Hoover Dike, USA:
On the Herbert Hoover Dike in Florida, BAUER constructed a 21.7 km long cut-off wall using the cutter-soil-mixing method.

4 Monopile Factory, UK:
Installation of approx. 7,000 piles in 14 months – including 1,500 bored piles with a diameter of up to 1,180 mm and approx. 5,500 CFA piles with diameters of up to 900 mm.

5 Teesta VI, India:
On the Teesta River in India, BAUER carried out 4,700 m² of cut-off wall using the jet grouting technique, and 4,600 m² of diaphragm wall.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Assembly in the Aresing plant

INNOVATIVE EQUIPMENT TECHNOLOGY

We are constantly making advancements, even after more than 50 years of experience in the development and construction of equipment for specialist foundation engineering. The ideas and visions of the BAUER Maschinen Group have conquered the world. So it's only logical that we now feel at home around the world and no site location is foreign to us. Whether the requirements call for drilling, pile driving, grabbing, cutting, compacting, mixing or separating, our portfolio encompasses all the technologies that set the standards in the industry. Our curiosity has taken us this far and will continue to drive us in the future to adopt new conceptual approaches. We engage with the question how to implement digital solutions at maximum benefit.

No challenge is too large or too demanding for us. For example, when equipment technology is needed for the extraction of resources, the foundation of offshore wind parks or the construction of flood protection structures – we accept the task. With our focus on the essentials, our experienced craftsmanship and passion, we can make any problem a success. That's why so many customers rely on us. To make sure it remains that way in the future, we listen, keep pace with the times and retain the pioneering spirit that has always guided us. In this way, we transform every major challenge into a manageable task.


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1 Drilling rigs:
Installation of bored piles using a BG 55 on a lock project near Erlangen

2 Leaders and pile driving equipment:
An eRG 19T hybrid being used for sheet pile work in Copenhagen

3 Anchor drilling rigs:
An electro-hydraulic KLEMM KR 806-4E being used for drilling work for a new school in Oslo

4 Mixing and separation technology:
A BE 300-C desanding plant with its complete accessories during installation work in Italy

5 Duty-cycle cranes and cutters:
MC 96 duty-cylce crane with a grab at a subway project in Munich


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Reed bed treatment plant, Nimr:
Up to 175,000 m^3 of polluted water from oil production are cleaned every day by the world's largest reed bed treatment plant in Oman using a purely natural method.

PROTECT RESOURCES

The Resources segment moves the world of today and tomorrow with highly innovative solutions in the areas of drilling services and water wells, environmental services, constructed wetlands, mining and rehabilitation. Where soils are industrially polluted, we help with the rehabilitation of all sorts of contaminated sites – whether former refineries, gas plants or chemical facilities. If these structures are getting older, we also take care of the demolition, rehabilitation or replacement construction. In order to clean polluted water, we develop innovative technologies and build plants for water treatment. Particularly with the world's largest reed bed treatment plant in Oman, we underscore our role as a forerunner. In the middle of the desert, over an area of 13.5 km^2 – roughly 1,600 football fields – contaminated water from oil production is cleaned biologically with the help of around 1.5 billion reed plants. Moreover, with the development and delivery of well materials or well drilling, we ensure a constant water supply for the population, particularly in areas that will be more strongly affected by droughts in the future. And when it comes to handling, recycling and disposing of waste professionally, our own soil cleaning centers guarantee the highest possible reliability of disposal. If underground storage facilities are no longer needed, we also safeguard them securely for future generations. Last but not least, our area of activity also includes safeguarding existing shaft facilities, excavating shafts and the exploration of new drifts.


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1 iCampus, Munich:
Brownfield remediation of a former industrial site in Munich's Werksviertel district: In total, almost 125,000 m³ of ground was excavated and disposed of, including 140,000 t of contaminated earth.

2 Innerstetal bridge, Hildesheim:
Good planning and organization were demonstrated during the rehabilitation of the Innerstetal bridge on the A7. Spesa installed around 5,000 m³ of concrete in just 35 months.

3 Reiche Zeche, Freiberg:
The heritage-listed Reiche Zeche headframe of the Freiberg University of Mining and Technology's research and training mine was replaced and partially rehabilitated by Schachtbau Nordhausen.

4 Heinrich-Schliemann-Gymnasium, Fürth:
BAUER Resources installed 129 geothermal probes at depths ranging from 46 to 60 m. Approximately 4.2 km of piping connects the probes to the future building systems.

5 Production, Peine:
The GWE Group manufactures well materials of all kinds and develops powerful pump systems as well as custom solutions.


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