Amiblu®

Amiblu Pipe Systems
Engineered for the next generations

GRP storage systems for crystal-clear drinking water

Safe reservoirs for potable water in all volumes and sizes

FLOWTITE®

HOBAS®

Sustainable Amiblu solutions engineered for the next generations

Glassfiber reinforced plastic (GRP) pipes and system solutions by Amiblu are the product of over six decades of innovation, experience and development. Our broad range of pipes in all shapes and sizes is completed by special state-of-the-art innovations that are in line with the future requirements of urban societies. This way, we guarantee that you get the best option for your individual project – our Amiblu experts are happy to assist you in making the right choice.

Environmental sustainability
Our thermoset resins are designed to be inert and stable for generations. Glassfibers add stability and strength.

Economic sustainability
Lowest capital cost, lowest installed cost, and lowest lifetime cost. Sustainability doesn't have to cost the earth.

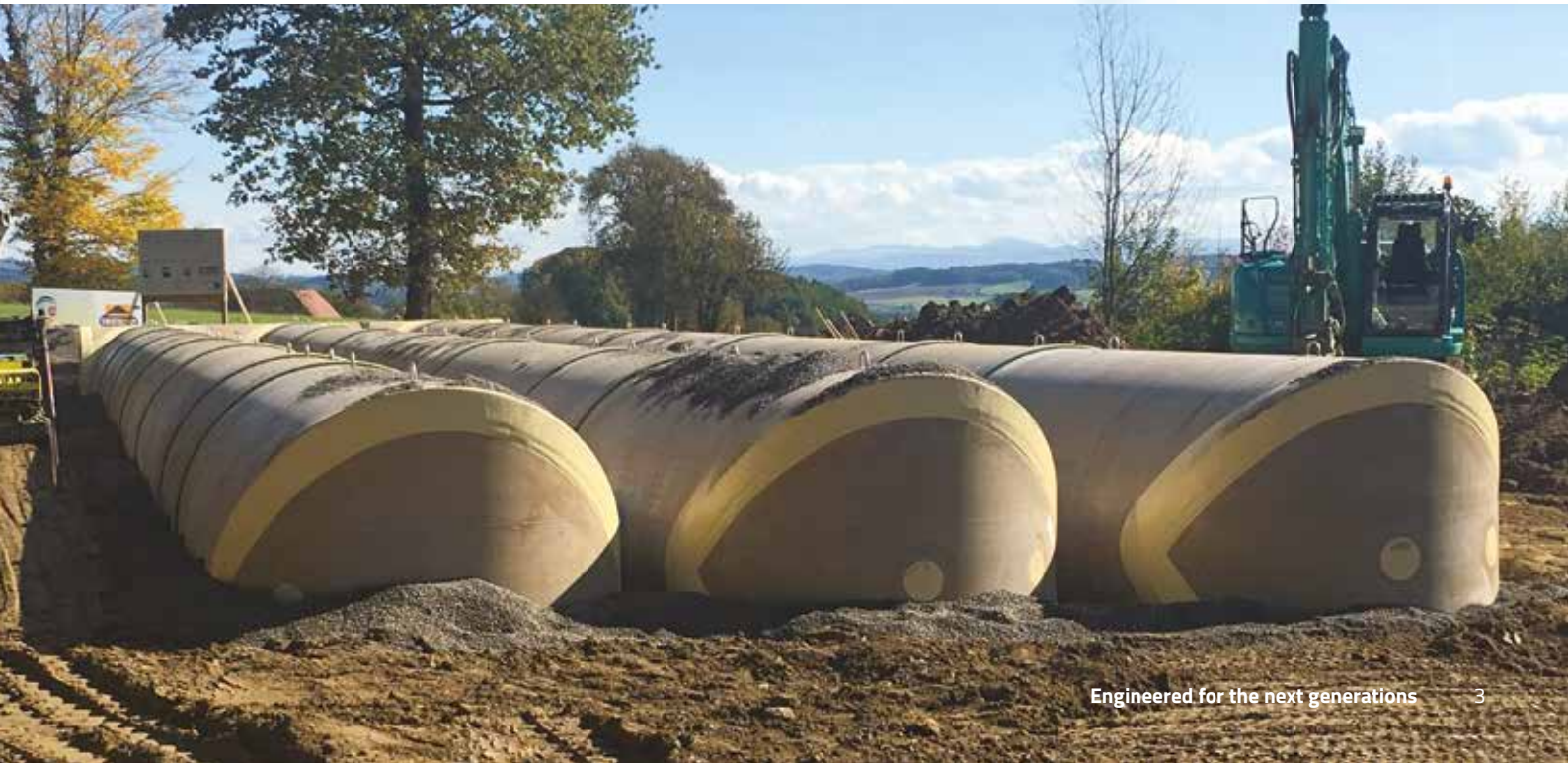
Social sustainability
Operators of water, sewer, and energy infrastructure need our pipe technologies. We design GRP pipe networks for generations to come.

Our promise: a fully reliable system for drinking water storage and supply

Potable water storage systems ensure that the precious resource is available under all circumstances. They help cover shortfalls between water inflow and water withdrawal as well as peak withdrawals at the time of maximum water demand, provide a safety reserve, and guarantee the supply pressure required in the pipe network. The demands placed on all materials that retain and transport drinking water are extremely high: after all, they directly influence our health and wellbeing.

Amiblu offers a wide range of standard and custom-tailored products for the extraction of potable water as well as its storage and supply, thereby providing for a fully reliable system. Each raw material, each step in production, and each component complies with the most stringent drinking water safety regulations, is precisely recorded, and traceable at any time. In the Amiblu R&D center in Norway, GRP experts test and specify the properties of all potable water systems made of Hobas and Flowtite pipes.

Flowtite and Hobas potable water tanks by Amiblu have already proven their worth in several locations around the world, especially in remote areas or sites that are difficult to access. With capacities up to several hundred cubic meters, we offer a wide range of prefabricated, turn-key potable water storage solutions. This means that each reservoir is custom designed and delivered to the construction site in prefabricated units and with all readily installed features. Thanks to convenient push-to-fit couplings and the pipe materials' low weight, our GRP potable water tanks can be installed without heavy-duty lifting devices.



Your benefit: a turn-key solution with a generations long service life

High-quality, safe, and sufficient drinking water is essential for our daily life. Several stringent national and international directives ensure that, for the distribution and storage of water, only materials are used that do not affect human health. These material standards also concern pipes and storage reservoirs, which count among the most important elements in the potable water distribution system.

As a stakeholder you are also an end user and clearly want to choose a storage solution that not only maintains the drinking water quality, but also functions reliably in the long run and can be designed precisely to your project needs. With a sophisticated composition of raw materials, Amiblu GRP potable water tanks offer an exceptional product life cycle and unbeatable benefits.

Engineered for several generations
The results of our stringent long-term product tests support an expected service life of many generations. This is confirmed by the evidence from existing installations that are as good as new after over 40 years of service.

Easy installation in all sites
Thanks to the GRP pipes' low weight, our potable water tanks can be installed without costly heavy-duty handling equipment. It makes them a perfect solution for project areas that are difficult to access.

Full corrosion resistance
Amiblu GRP pipe systems are inherently resistant to corrosion and need no cathodic or other additional protection. They therefore provide an ideal and safe environment for a sensitive medium like drinking water.

Custom designed solution
Our GRP potable water tanks can be designed as single- or multi-chamber system, with the service chamber connected at the front end or in crosswise direction.

Turn-key storage system
Amiblu supplies custom-tailored potable water storage tanks as complete system solutions. These include a storage chamber, a service and fittings chamber, and technical equipment.

UV resistant material
Neither the visual appearance nor the mechanical properties of Flowtite and Hobas GRP pipes are impacted by UV radiation. Therefore, our potable water tanks can be stored, installed, and operated even above ground.

Compliance with drinking water standards

The demands placed on all components that get in contact with drinking water are extremely stringent. Each raw material and step in the production process must be precisely documented and traceable. The components of our potable water tanks comply with a number of national and international standards that confirm the final products' suitability for this sensitive application.

Modular system / subsequent upgrades

Each Amiblu storage tank is delivered to the construction site in prefabricated units with all installed features such as access and valve chamber. The modules are connected with leak-proof couplings or laminated on site. The result is a perfectly watertight storage system which can be subsequently upgraded and extended as required.

Large range of diameters and volumes

No demand is too big, no request too extraordinary: Amiblu offers potable water storage systems with both small and enormous volumes, made from GRP pipes with diameters up to 4 m. At the same time, the highly rigid GRP material permits thin pipe walls, making it possible to reduce the necessary volume of excavated material to a minimum.

Complementary GRP systems

In mountainous regions, where water is sourced from springs, spring water shafts or wellheads are often installed upstream of a potable water tank. Unlike in groundwater extraction, there is no need to pump the water since it flows through filter pipes into the lower-lying well shafts, where all contained suspended solids are filtered through sedimentation. The cleaned water is usually fed into a reservoir from which it is then supplied to the general public on demand. Well shafts are available as prefabricated GRP systems with anti-buoyancy base plate, GRP lining, and cover plate as well as integrated installations. Fittings and water meter shafts complement the Amiblu storage systems portfolio.

Well shaft

Water meter shaft

Components of a GRP potable water tank

GRP potable water storage systems by Amiblu are modular solutions consisting of a storage chamber, a service and fittings chamber, and technical equipment. All modules are customized according to project requirements and prefabricated in the Amiblu factories, so they can be easily fitted on site. The potable water tank can be designed as single- or multi-chamber system, with the service chamber connected at the front end or in crosswise direction. The water chamber is accessed via the service chamber, which is usually separated by a pressure-proof GRP wall. A flange with a blind lid can be sufficient here, but manholes or doors are also often used, enabling cleaning works to be performed in the tank as required. Inspection windows and interior lighting allow for visual checks without accessing the chamber. The service chamber serves as room for all fittings and systems that are necessary for the control and operation of the storage tank.

Exterior design

Access points & entrances

Pipework and fittings

Process control system

GRP end cap

Interior lighting

Inspection window

Access to water chamber

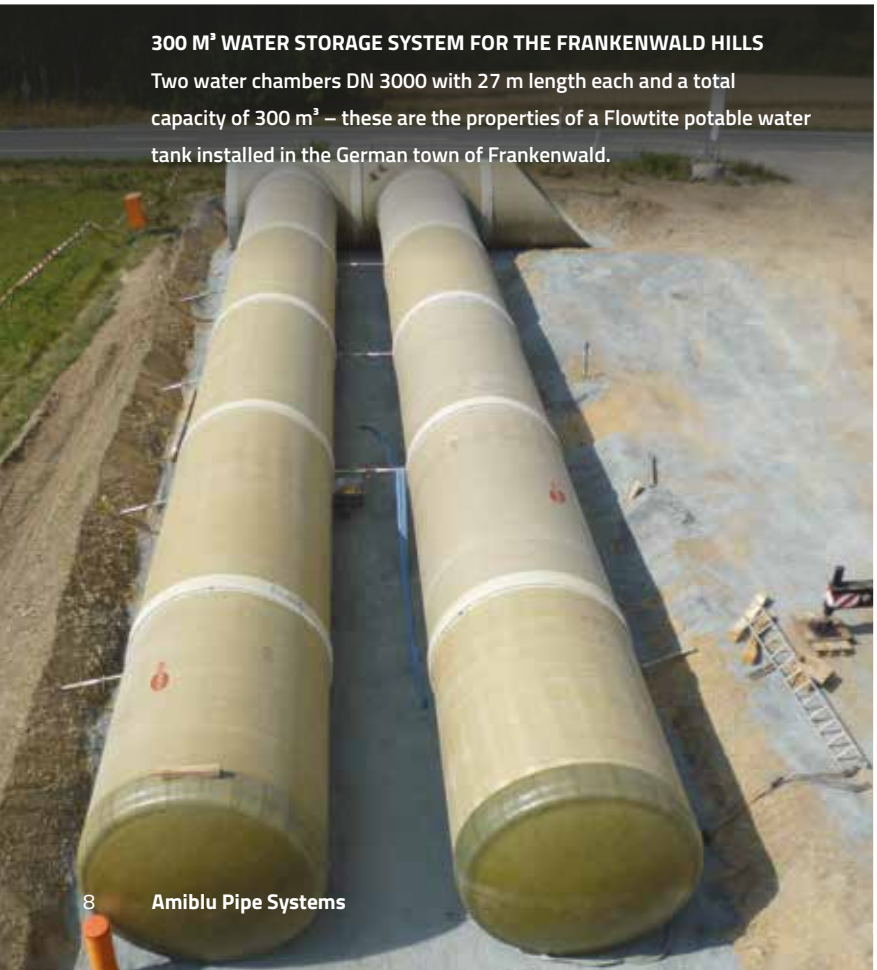
Walking surface

370 M³ POTABLE WATER TANK INSTALLED IN AUSTRIA
In the municipality of Marbach, Lower Austria, a potable water tank with a capacity of 370 m³ was built of Hobas GRP pipes DN 2400 and installed in 1.5 days.

Project references

Amiblu potable water storage systems made of Hobas centrifugally cast and Flowtite filament wound GRP pipes have proven their worth in numerous projects and custom-tailored designs.

300 M³ WATER STORAGE SYSTEM FOR THE FRANKENWALD HILLS
Two water chambers DN 3000 with 27 m length each and a total capacity of 300 m³ – these are the properties of a Flowtite potable water tank installed in the German town of Frankenwald.



DUAL-CHAMBER FW WATER TANK DN 2800
2 x 30 m³ is the capacity of a Flowtite potable water tank with a transverse, central valve chamber that was installed in the German municipality of Bundorf.

255 M³ WATER RESERVOIR FOR APENNINE MOUNTAINS

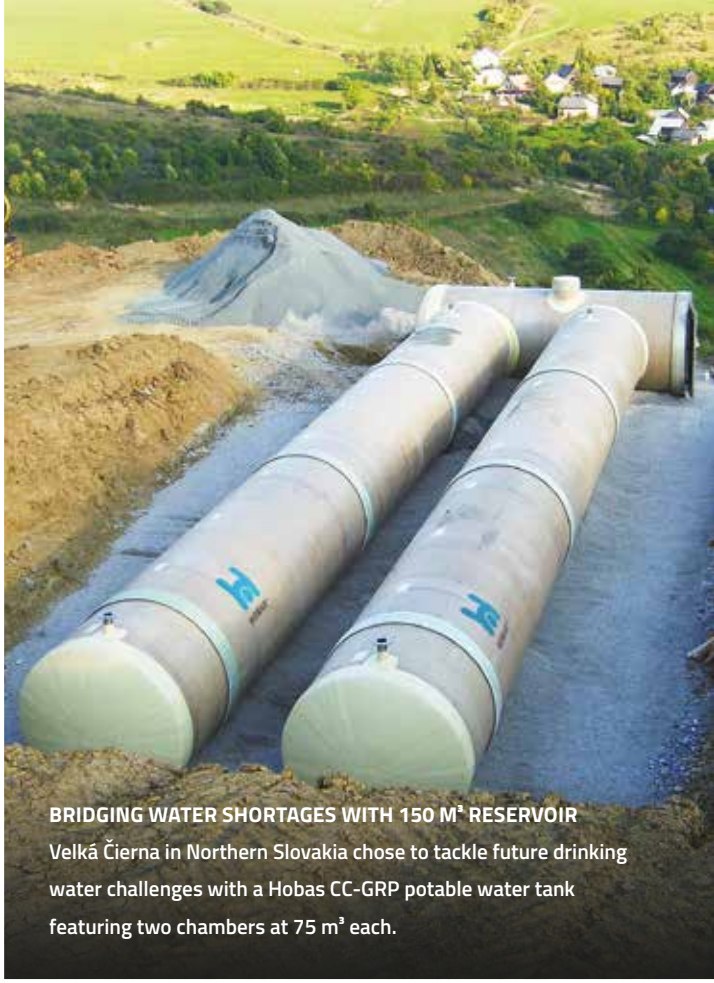
This Hobas potable water storage system has a capacity of 255 m³ and consists of a utility chamber plus three 25-m long water chambers DN 2400. The installation of the reservoir was completed within 12 hours only.

POTABLE WATER TANK DN 2800 INSTALLED IN THE BAVARIAN ALPS

Amiblu supplied a 200 m³ potable water storage system to the municipality of Oberstdorf in southwest Germany. The tank is built of Flowtite pipes DN 2800 and consits of two 18-m long water chambers and a transverse valve chamber.

FLOWTITE POTABLE WATER TANK INSTALLED IN BAVARIA

Amiblu supplied a 80 m³ potable water storage system to the town of Weißenstadt in German Bavaria. The system has a transverse valve chamber and is built of Flowtite pipes DN 2400.



BRIDGING WATER SHORTAGES WITH 150 M³ RESERVOIR

Velká Čierna in Northern Slovakia chose to tackle future drinking water challenges with a Hobas CC-GRP potable water tank featuring two chambers at 75 m³ each.

1000 M³ POTABLE WATER TANK FOR PITOMAČA, CROATIA

This 1000 m³ potable water tank featuring six parallel Hobas pipelines and a valve chamber DN 2555 was installed within a record time of five days – the minimum installation time for a comparable concrete alternative would have been six months.

UPPER AUSTRIA RELIES ON FLOWTITE STORAGE TANK DN 3000

A 150 m³ potable water tank of Flowtite GRP pipes DN 3000 was installed in the municipality of Offenhausen in Upper Austria. The system features two water chambers (each 10.50 m long) and a transverse valve chamber.

500 M³ POTABLE WATER TANK INSTALLED IN RECORD TIME

In the Austrian city of Ybbs, a 500 m³ potable water tank was installed in merely 8 hours. The tank is built of Hobas CC-GRP pipes DN 2555 and consists of three water chambers and a valve chamber.

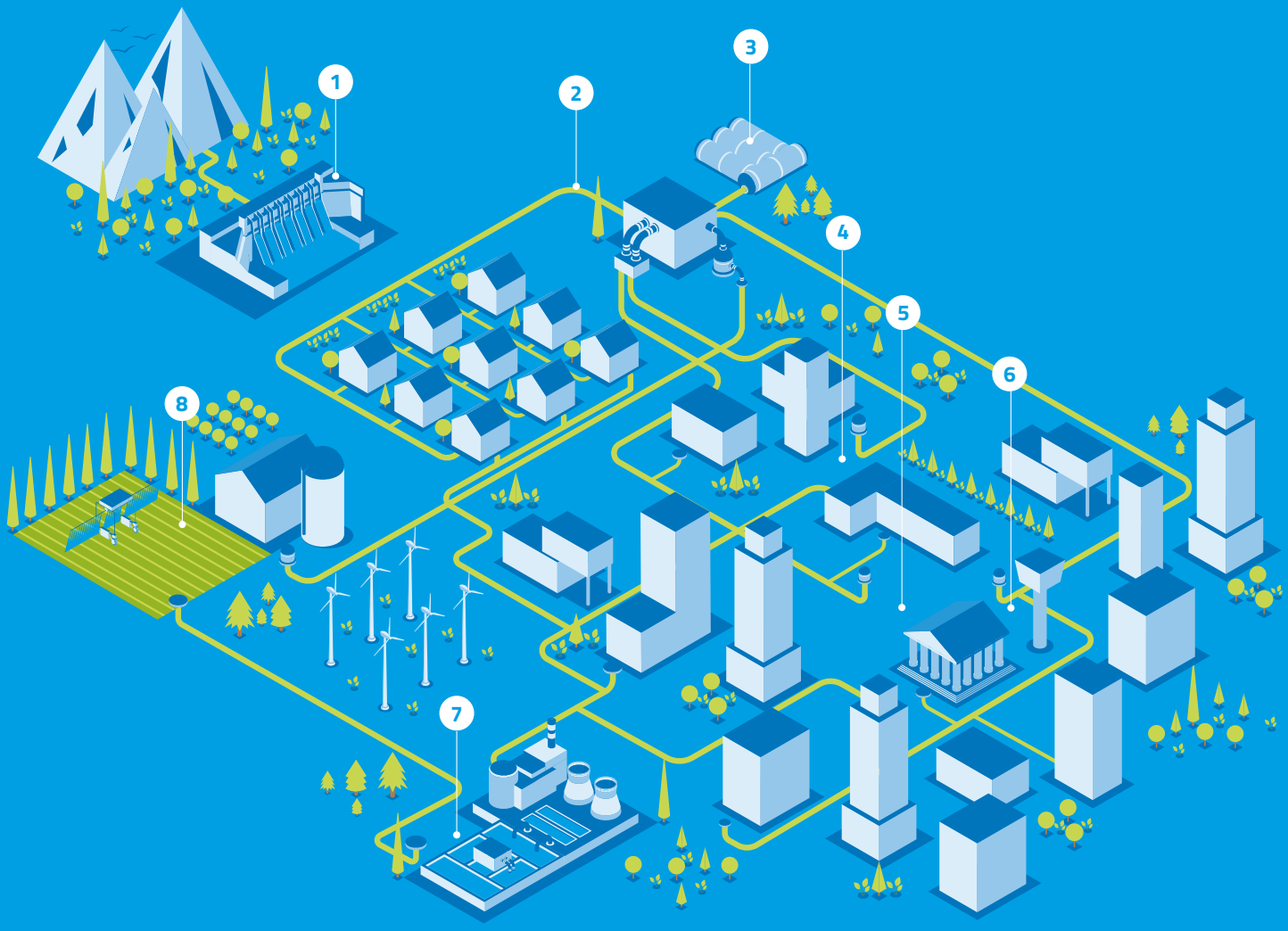
Let our team help your team!

On any project, you need to know that the people you cooperate with are as committed to success as you are. We work closely with our customers from concept through to operation. We add value with innovative GRP solutions that outscore traditional alternatives on every parameter. We help you solve your problems and overcome your challenges to guarantee long-term, sustainable performance.

Amiblu®

Let’s value water as we should.

1. Hydropower
2. Potable Water
3. Storage Tanks
4. Sewage and Stormwater
5. NC Pipes Rehabilitation
6. Jacking Pipes
7. Industry
8. Irrigation



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