Competent partners

Siemens Industry Partners offer individual solutions for the water sector

siemens.com/water/automation
Clean water is precious. Responsible use is essential no matter whether it involves drinking water, wastewater or industrial water. Efficient operation of water plants and systems can only be guaranteed with the appropriate energy distribution, automation, drive technology and instrumentation. Siemens offers state-of-the-art products and applications so that customers can easily achieve their objectives with competent partners at their side.

This is why Siemens counts on its Solution Partner Program.
First choice for outstanding solutions

Partner you trust! Tailor-made for you - solutions you can trust

A dependable partnership means

* being present
* offering practical support
* responding flexibly to problems

and offering leading-edge solutions that are tailored to specifically address your requirements.

Based on our comprehensive know-how and many years of experience in the process industry, we stand for reliable solutions with the highest quality. This is why we also work very closely with certified system integrators – our Solution Partners. In addition to our own experts, they support you with solutions based on Siemens process automation components.

Together we are there where you need us, close to you around the world.

Benefit from our Solution Partner Program

Our Solution Partner Program comprises about 1300 partners in more than 70 countries – and the trend is upwards. To provide customers world with the product expertise and industry knowledge, back in 2012 Siemens started certifying competent partners in the water sector. Selected companies have signed contracts, and thus entered into a strong and strategic partnership. These qualified industry partners have not only demonstrated their excellent expertise regarding Siemens products and solutions, but also their extensive project experience and know-how of the water industry.

Customers in the water industry all over the world trust Siemens Solution Partners and their tailor-made solutions. Eight already certified industry partners and their outstanding solution competence in the water sector are presented in the following.
BN Automation AG (Ilmenau)

Founded: 1990
Employees: 100

Company:
BN Automation AG designs, realizes and maintains process automation solutions for water and wastewater treatment, for power generation and distribution as well as for other technical processes. Customers appreciate the exceptional range of services they offer in the areas of electrical engineering, automation, process control, information technology and MES, for constructing new plants as well as for migrating existing ones.

Reference:
BN Automation AG realized the migration of the legacy automation and control system in a waterworks in Germany to SIMATIC PCS 7. This included the remote operation of well systems and pumping stations via SIMATIC PCS 7 TeleControl and the SIMATIC library with water-specific templates from Siemens. The customer’s requirements: safe monitoring and control of water catchment, treatment and supply through a scalable process control system. The customer now profits from higher operational safety due to the plantwide, uniform control concept, higher availability and data safety through redundant automation and control technology. As well as from reduced operating costs thanks to the centralized remote alarming and dial-up for stand-by personnel.

www.bn-automation.de

Bilfinger GreyLogix GmbH (Flensburg)

Founded: 2000
Employees: 650

Company:
Bilfinger GreyLogix GmbH designs, engineers and realizes automation solutions for the construction and operation of technical plants. The company’s core competence is the custom-tailed development and implementation of demanding software concepts and its project management. In addition to setting up new plants, Bilfinger GreyLogix is especially involved in retrofit projects. Here, the focus is on replacing and upgrading complete control systems.

Reference:
The technical department of Bilfinger GreyLogix aqua implemented the migration to SIMATIC PCS 7 and SINAUT remote control technology for a sewage treatment plant in Germany. The SINAUT remote control system enabled continuous plantwide transparency even as far as distantly located pump stations. Here, the challenge was to not disturb the plant’s running operation. Customer benefits include higher operational safety thanks to continuous plant transparency and reduced operating costs as a result of the plantwide uniform operating concept. Other benefits include security of investment using system technology based on open and well-established standards.

www.greylogix.com
on/off group
(Wunstorf)

Founded: 1988
Employees: 150

Company:
As a leading service provider for automation and information technology, the on/off group has developed and delivered innovative solutions for the process industry for over 25 years. In addition to automation technology, their portfolio also includes SCADA- and process control systems, IT technology as well as manufacturing execution systems. on/off automation gmbh – as part of the on/off group – is a competent partner for plant automation in the water and wastewater segments. Market segments include the water and supply industry as well as environmental protection.

Reference:
on/off automation gmbh realized the migration of the complete equipment to future-proof technology for a municipal utility. This meant that on/off automation needed to retrofit the existing technology during running operation. The customer opted for integrated automation technology based on the SIMATIC PCS 7 process control system. Customer benefits include a state-of-the-art and future-proof system that can be easily and cost-effectively expanded, high-availability and an improved waste water quality as a result of the high degree of automation.

www.onoff-group.de

Orbita Ingeniería, S.L.
(Massanassa, Spain)

Founded: 2006
Employees: 110

Company:
The Spanish company Orbita Ingeniería provides technical consulting and implements projects in the fields of industrial automation, electrical engineering and automation, mechanical engineering as well as IT and telecommunications. Beside its expertise in the industries automotive, airport, and food, Orbita is also active in the water sector.

Reference:
From their water department they have designed and implemented some important projects in the water sector, covering all the different technical areas involved in the sector: SCADA, process, electrical designs, IT technology and specially large telecontrol systems. One example is the implementation of the control center in a Spanish sewage treatment plant. Visualization was realized with SIMATIC WinCC and tailored to the customer’s requirements. In addition, the customer selected SINAUT ST7cc. The advantages of WinCC: In distributed plants, the system supports easy operation and fault diagnostics with user-friendly screens. SIMATIC TeleControl records all important events with time stamp, allowing faults and alarms to be clearly assigned..

www.orbitaingenieria.es
**PWT Wasser- und Abwassertechnik GmbH (Zwingenberg)**

**Founded:** 2002  
**Employees:** 310

**Company:**  
PWT Wasser- und Abwassertechnik GmbH designs, constructs and operates plants and systems to treat drinking, process and wastewater – both inside and outside Germany. In addition to its core competences in the areas of planning, constructing and operating water treatment plants, PWT also has considerable experience in automation & process control technology as well as retrofitting systems. Here, existing plants and systems are completely re-engineered by an interdisciplinary team of experts. Based on the COMOS engineering solution, the automation and process control system is migrated with SIMATIC. In recent years, the equipment in several medium to large drinking water treatment and wastewater treatment plants has been migrated.

**Reference:**  
PWT managed the construction of one of Europe’s largest and most modern sewage plants in Turkey. The plant was planned using COMOS. This meant that the software for the operating stations and 18 SIMATIC automation systems was also automatically generated. Communication between the visualization and control level is established using an optical Industrial Ethernet ring based on SCALANCE switches. The COMOS planning project – including the complete “digitized” plant documentation – is further used via the COMOS MRO supplementary tool for planning and monitoring the inspection, service and maintenance packages. These are processed with mobile tablet PCs locally on-site, the task-related completed messages written back to the COMOS database and an automatic report generated. The consequential use of COMOS results in significantly lower service and maintenance costs and a higher plant availability.

[www.pwt.de](http://www.pwt.de)

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**AllTec Automatisierungs- und Kommunikationstechnik GmbH (Borna)**

**Founded:** 1991  
**Employees:** 160

**Company:**  
AllTec Automatisierungs- und Kommunikationstechnik GmbH supports numerous satisfied customers with system solutions and services in the areas of automation, switchgear and information technology. Based on professional management, AllTec accompanies and supports its customers from the planning and engineering through the hardware and software engineering up to installation and commissioning of the plant or system. This is true for new construction projects as well as retrofit projects. The AllTec specialists have comprehensive technical project experience as well as extensive knowledge regarding technological processes, especially when it comes to water and wastewater plants and systems.

**Reference:**  
In one of the most modern biological water treatment plants in Germany, system integrator AllTec handled the migration of the process control technology to the WinCC SCADA system. An engineering station with integrated WinCC project was configured, which facilitates a structured design and allows the database to be centrally edited. AllTec generated WinCC parameterizing tools for simply expanding the continuously growing plant. The openness and scalability of WinCC provides some decisive engineering advantages. A system that facilitates optimized operational management was created for the customer. This is based on graphic window technology, user objects, structure variables, instantiation and script technology – along with predefined trends using trend control functions. The simple maintenance and expandability allow additional functions to be effectively and efficiently created in the process control system.

[www.alltec-borna.de](http://www.alltec-borna.de)
Company:
As a result of its more than 20 years experience, GESA Elektrotechnik GmbH has achieved a strong position both inside and outside Germany. Based on its portfolio, it is an expert in the areas of electrical engineering, instrumentation and control, automation and process control systems for water treatment plants, water plants, tank farms, tunnels and industrial plants and systems – including the associated technology. GESA has proven itself to be a strong and reliable partner in the areas of development, sales, engineering, installation and commissioning.

Reference:
GESA Elektrotechnik GmbH completely modernized the electrical system of a wastewater treatment plant in Germany. This project involved replacing the medium voltage switchgear, the transformer station and the new main low-voltage distribution. It also included the instrumentation and automation technology and creation of a new visualization system. The new parts were retrofitted and the system-related sub distribution panels replaced while the plant continued to operate. The individual main automation elements were networked with one another using a plantwide bus system based on Ethernet. To achieve this, a plantwide fiber-optic ring was configured, to which the two redundantly configured servers are connected. Each of the eight S7-300 or S7-400 PLCs is equipped with a local HMI device in the form of a fully graphic touch panel. This means that the individual automation stations can be controlled both from the two control rooms as well as from the substations. In addition, 26 remotely controlled substations transfer their data online via a secure VPN tunnel based on GPRS to the central water treatment plant.

www.gesa-elektrotechnik.de

Company:
focus Industrieautomation GmbH is active in the international arena with the emphasis on automation technology. focus has been offering solutions for the automation of processes, plants and machines specifically for water/wastewater since 1992. As a company with strong skill sets, focus implements complete solutions for customers based on the latest state-of-the-art technology. This starts with the support, through the implementation and commissioning, up to handover of the turnkey plant and the subsequent all-encompassing service that they offer. Based on more than 20 years of experience, focus can fully leverage its extensive know-how to the benefit of its customers.

Reference:
The new, ultra-modern Westerburg water treatment plant serving several communities significantly increases the supply reliability within the association of municipalities. The sewage sludge obtained is automatically dewatered and dried using a solar system. The excess heat from the unit cogeneration power plant of the adjacent biogas plant is used to intensify the solar drying of the sewage sludge. focus implemented the complete instrumentation and control technology. A total of ten PLC control systems were networked using a fiber-optic ring. The implementation of the SIMATIC WinCC process visualization as client/server solution facilitates simple operation and guarantees that the plant status is always transparent. The use of WinCC WebNavigator means that the plant manager always has access to the plant. With the introduction of state-of-the-art remote control technology, 40 satellite stations were also able to be connected to the central process control system of the water treatment plant using GPRS.

www.focus-ia.de
The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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