

next Generation



Completely Integrated Solutions  
for the Water Industry

## SIWA<sup>CIS</sup> PUMP

Extract greater efficiency from your  
pumping stations

Your Success is Our Goal

# SIEMENS

Industrial Solutions and Services

SIWA<sup>CIS</sup> PUMP is a modular package solution for new-build or existing pumping stations in drinking water, irrigation or wastewater networks. The package is scalable to meet your requirements, and includes the instrumentation, automation, power engineering and drive engineering, along with the associated services required throughout the life cycle of the installations. Supplementary modules such as SIWA<sup>CIS</sup> PLAN BEP give you additional potential for optimization with scope to boost the economic efficiency of your pumping stations. The crucial advantage is that you obtain an optimized solution for every task you are facing – and everything is from one source. Not only that: You only invest in the technology that you actually need.

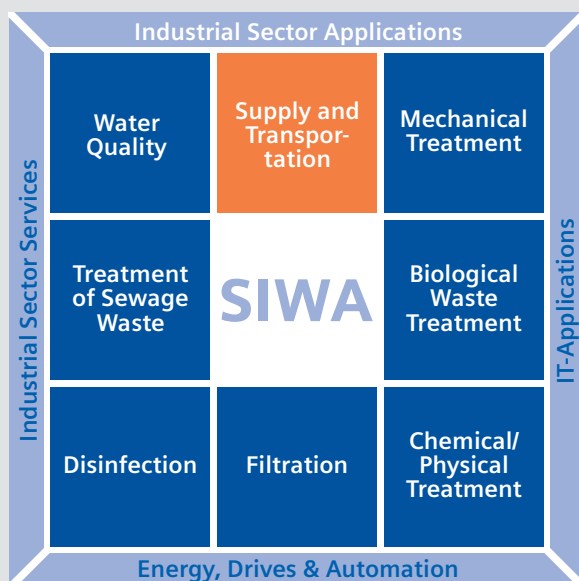
### The challenge

Operators of pumping stations for drinking water, irrigation or wastewater networks are faced with the task of reconciling the need for a high degree of security of

supply or disposal with economic operation, even though they often only have limited funds available for investment. One way of increasing their room for maneuver is to reduce operating costs. The challenge, therefore, is to achieve a range of targets while not diminishing the security of supply or disposal:

- Utilizing the existing installations at a working point that represents an optimum balance between performance, energy consumption and wear
- Meeting dynamic changes in demand with variable drive solutions at a minimum of expense
- Limiting the amount of investment through intelligent plant dimensioning

This is precisely where Completely Integrated Solutions from Siemens systematically offers you the better solution.



### Five good reasons for SIWA<sup>CIS</sup> PUMP

- Sustainably greater security of investment thanks to modular solutions
- Optimized energy consumption figures through the use of proven control algorithms in the pump control system
- Clearly defined interfaces between the control system and the power engineering ensure lower costs and greater operational reliability
- Sustainably lower life-cycle costs thanks to the high quality of all components and extended plant lifetime
- Supplementary modules such as SIWA<sup>CIS</sup> PLAN BEP open up additional potential for optimization

## Our solution in detail

SIWA<sup>CIS</sup> PUMP is a package solution which enables us to offer you a wealth of innovative approaches to optimize the performance of your pumping stations. This includes comprehensive advisory services as well as system design, plant engineering, installation and commissioning, maintenance and remote diagnosis, along with tailor-made financing offers. Many of our services enable you to profit directly: For example we will calculate what redundancies are necessary to achieve the required security of supply, allowing considerable cost savings to be made whether you are building a new station or modernizing an existing one. It is much more difficult to put a figure on the cost advantage of ideally matched interfaces, which is what you enjoy as a consequence of the perfect planning in SIWA<sup>CIS</sup> PUMP.

### SIWA<sup>CIS</sup> PUMP meets all your requirements

SIWA<sup>CIS</sup> PUMP provides you with seamless, tried-and-tested technologies which maximize efficiency and are open to expansion in the future. The use of standardized modules makes SIWA<sup>CIS</sup> PUMP particularly economical: You only invest in what you really need at the time. Subsequent expansions or additions can be incorporated when they are required. This has a double benefit for you because you are able to continue operating older plant sections for as long as it is worthwhile and makes technical sense. You can then progressively switch to the new, more efficient technology. In this way you avoid overburdening your investment budget but still profit from improved performance from your equipment.

### Everything from one source

For you as an operator, the crucial advantage is that



with SIWA<sup>CIS</sup> PUMP you are getting an all-inclusive solution from a single source. We offer you a modular, scalable system for installations of any size, with everything from power supply and distribution to highly efficient drives, as well as instrumentation, automation and control and process control systems. This not only means that you reduce the effort needed to match everything up, because you are dealing with just one partner: You also have a direct line to a supplier with comprehensive process know-how, ready to answer all your questions, before, during and after commissioning.

### Systematic success

The advantages of SIWA<sup>CIS</sup> PUMP lie on one hand in the detail: Ideally matched components are convincing in themselves, because of the improved performance. At the same time you make use of the advantages arising from the perfect integration of hardware and software in the system, because, thanks to its open architecture and the standardized interfaces to Totally Integrated Automation (TIA) and Totally Integrated Power (TIP), SIWA<sup>CIS</sup> PUMP opens up entirely new possibilities for optimizing system performance. These include integrating our SIWA<sup>CIS</sup> PLAN BEP software solution, which enables you to determine the best efficiency point of your pumping station or take account of it when scheduling with SIWA<sup>CIS</sup> PLAN OPTIM.

### Economical, well into the future

The high-quality technology of SIWA<sup>CIS</sup> PUMP guarantees that your installation operates economically and reliably. To ensure that this is the case in the long term, we offer you a range of services as well as standard maintenance, including remote diagnosis of your system, advance maintenance planning and taking care of all spare-parts stocking.

[www.siemens.com/water](http://www.siemens.com/water)

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CIS = Completely Integrated Solutions*

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## SIWA<sup>CIS</sup> – Completely Integrated Solutions for the Water Industry

As a comprehensive industry-specific solution for the water industry, our SIWA<sup>CIS</sup> product family integrates all the products and services you need for sustained maximization of your plant's performance

For each particular task, a solution has been defined that

- **horizontally** improves all production processes – from the preparation of drinking water to environment-friendly wastewater disposal
- **vertically** integrates the company's information flows end-to-end, helping corporate management to make better-founded decisions
- and **chronologically** lowers operating costs and provides lasting security and economic efficiency – for example with the SIWA<sup>CIS</sup> PLAN water management solutions and our life cycle services.

Due to this unique combination of horizontal, vertical and life cycle dimensions, our solutions all carry the genes of an exhaustive and sustained plant productivity in their very core.

**For More Productivity. More Performance. More Power. Completely Integrated Solutions from Siemens.**