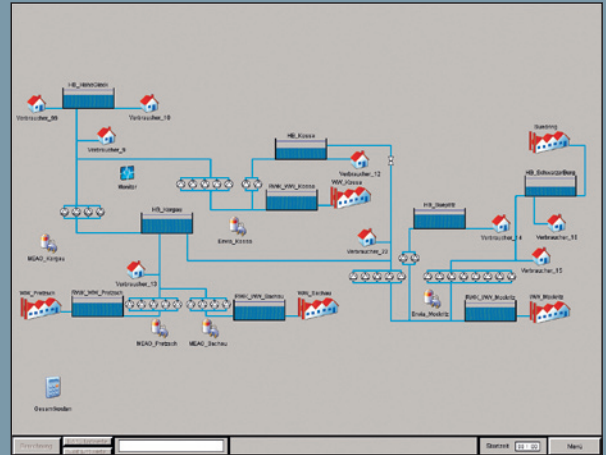


With the help of proven optimization calculation methods, SIWA^{CIS} PLAN OPTIM calculates the most efficient schedules for all pumps and tanks of a water supply system. This system requires no mathematical knowledge by the operator as it offers a technology oriented and therefore user-friendly interface. Thanks to this, the operating personnel are effectively supported in efficient and safe operational control.

The challenge

Reducing operating costs in complex water networks, district water supplies or pipelines without endangering supply reliability, is only achievable with experienced operating personnel that can be relied upon. Within this context, the plant's components must be optimally driven at all times. SIWA^{CIS} PLAN OPTIM supports the operating personnel in this task – also under unusual and critical operating conditions.

Today, drinking water supply systems are operated via central control stations and partially automated function procedures using state-of-the-art technology. Often, the only potential for increased efficiency can today be found in the application of innovative tools, such as SIWA^{CIS} PLAN OPTIM, an advanced add-on to the control system.



Good reasons for SIWA^{CIS} PLAN OPTIM

- **Early detection** of non-regular process conditions increases plant safety
- **Cost-optimized pump schedules** reduce power costs
- **Optimum planning** of maintenance measures increases plant availability
- **Documentation of personnel knowledge** facilitates best-practice sharing
- **Easy and modular extension option** with further SIWA^{CIS} PLAN products

SIWA^{CIS} PLAN OPTIM

Increased Efficiency thanks to optimized operating plans

Water Technologies

SIEMENS

Our solution

SIWA^{CIS} PLAN OPTIM calculates the most cost-efficient operating plan for all pumps and tanks of the supply system. Within this context, technical and operational restrictions are also accounted for and supply reliability is guaranteed at all times. Both the optimum setting of pump, well and tank plans as well as the optimization of the servicing and maintenance measures or the external water procurement helps to spare costs. SIWA^{CIS} PLAN OPTIM can even be used to fully exploit the cost-saving potentials in electricity supply contracts. The system furthermore provides valuable decision aids for all reconstruction and construction measures.

Full-scale calculation

When preparing the operating plans, SIWA^{CIS} PLAN OPTIM considers all technological restrictions the respective plant is subjected to. The optimization is realized via menu control and does not bother the operating personnel with the procedure's details. Beside the reduction of costs, the decisive criterion of all optimization measures is an optimum supply reliability.

Maximum benefits with minimum expenditures

When determining the most cost-efficient circuit diagrams, SIWA^{CIS} PLAN OPTIM – the first system of its kind – utilizes proven methods of optimization calculation.

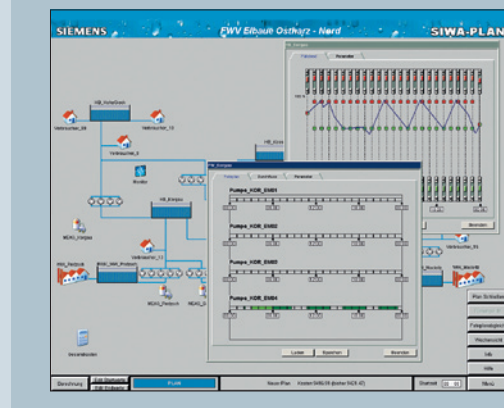
Surveys have shown that the application of mathematical procedures discloses much larger saving potentials than the preparation of traditional optimization scenarios. With small plants, the purchase of a separate optimization system is not always necessary. In such cases, we offer comprehensive and competent consulting services, which efficiently support the plant operator in the reduction of operating costs and the increase of failure safety.

SIWA^{CIS} PLAN – the modular water management system

SIWA^{CIS} PLAN is a water management system with modules for the optimization and simulation of drinking and waste water plants. Thanks to its modular design, SIWA^{CIS} PLAN offers individual solutions for drinking and waste water plants.

For example: SIWA^{CIS} PLAN OPTIM calculates the optimum operating plan for all pumps and tanks of a supply system and is perfectly integrated in the SIWA^{CIS} PLAN modular water management system.

It supports operators of water supply systems in sustainably reducing the operating costs of their plants and increasing operational reliability. At the same time, the plant's availability and supply reliability can be considerably increased by helping to plan an efficient maintenance program.



Particularly convenient: Thanks to its modular structure, SIWA^{CIS} PLAN offers the unique possibility of realizing the most varying combinations of comprehensive total solution approaches completely independent of the control and automation technology in use. The system can thus conveniently be adapted to the specific requirements of the respective plant operator at any time.

It is this in particular which makes SIWA^{CIS} PLAN especially efficient and broadly applicable. As existing technologies are integrated into the overall solutions, SIWA^{CIS} PLAN is a profitable investment which safeguards the value of installed technology. With its industry-specific modules, for example for operating personnel training or circuit diagram optimization for schedule administration, SIWA^{CIS} PLAN perfectly covers all important areas of the water industry.

Completely Integrated Solutions

Completely Integrated Solutions bundle our entire range of products and services for your plant.

In particular, they help you by

- **Optimizing** the entire process chain – with plant solutions including technology, automation, electrical engineering and environmental technologies
- **Connecting** all IT levels of your company – with IT and management solutions from production to the planning level
- **Supporting** you throughout the life cycle – from consulting through commissioning and training onward to modernization.

Siemens AG
Industry Sector
Industry Solutions
Water Technologies
Nonnendammallee 101
13629 Berlin, Germany
E-mail: water@siemens.com

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