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New HVAC plant for more energy efficiency

Shopping center Torvbyen in Fredrikstad/Norway

The integrated management, control, and monitoring of all building automation systems allows the shopping center Torvbyen in Norway to operate more efficiently. This has a positive effect on the operating costs.

Torvbyen in Fredrikstad is one of the largest regional shopping centers in the southeast of Norway. The shopping center covers the broadest variety of needs with a total of 85 stores including grocery stores, fashion stores, furnishing specialists, specialty stores and also service providers such as hair stylists and various restaurants.

The center generates total revenues of over a billion Norwegian kroner per year.

During an expansion to add new buildings and stores as well as renew building automation systems, it was discovered that the different controls for the HVAC systems made efficient operation impossible. The personnel responsible for building technologies therefore had no other choice but to individually operate and monitor the different control systems at the different locations on the site. It is obvious that energy is used extremely inefficiently under such conditions.

Answers for infrastructure.



Shopping center Torvbyen

The expansion of the shopping center provided the opportunity to replace all of the different control systems with a single overall control system. The Synco™ 700 modular HVAC controller version from Siemens was selected, which is tailored to such applications.

Easy to operate

Thanks to its simple and efficient operation, Synco 700 demonstrates a high level of user-friendliness and serviceability. Previously tested applications and energy saving functions are already integrated. Costs can therefore already be saved during project planning, engineering, and startup.

Better ability to communicate

The Synco 700 controllers communicate with each other via the worldwide standardized KNX bus system, guaranteeing automatic coordination of all processes as well as efficient control of all systems according to their needs at all times. Thanks to the ACS715 plant operating software and the OZW775 central communication unit from Siemens, all controllers can be operated and monitored

from a central location. As an option, the entire system can be accessed via the Internet from any location at any time, which enables even more efficient operation and rapid intervention for all types of malfunctions.

Considerable energy savings

Efficient energy use was considered very important during the planning of the renewal and expansion of the shopping center's building technologies. This included the installation of new heat pumps and cooling units, renewing windows, and adjusting the lighting to low-energy settings. In combination with the pre-programmed energy saving functions of the 32 installed Synco controllers, today they can save a considerable amount of energy and operate the shopping center at significantly lower costs. Comprehensive controlling with Synco 700 pays off for the Torvbyen shopping center in two ways: Firstly, all building automation systems can be controlled and monitored significantly more efficiently from a central location, and secondly the pre-programmed energy saving functions enable drastic reductions in operating costs.

Highlights

- Easy to operate thanks to high level of user-friendliness and serviceability
- Maximum comfort and reduced operating costs due to central control and monitoring
- Significant energy savings through the efficient use of energy and preprogrammed energy saving functions
- With its modular construction, Synco 700 can be upgraded or adjusted at any time