

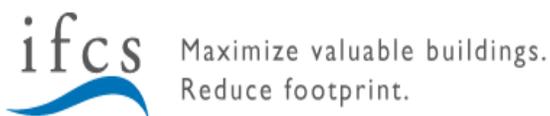
Water treatment accompanied by a CMMS



Sherbrooke city is located East of Montreal in Quebec and has a population of 155 000 inhabitants. The city has its own drinking water treatment and collection system. It has an excellent quality supply: Lake Memphrémagog. Once captured, the water is pumped to the drinking water treatment plant J.-M.-Jeanson, located close to the University of Sherbrooke. A water main of 27 kilometers connects the lake to the station.

The raw water is first filtered and then sterilized by ozonation after arriving at the treatment plant. This process eliminates smells but especially bacteria, as well as improving the color and the taste. In total, more than 90% of Sherbrooke's city's population uses the water treated by the J.-M.-Jeanson plant.

Sherbrooke city needs to efficiently keep track of equipments as well as technical and maintenance teams on all their sites and ensure the distribution of quality drinking water.



Thanks to its 5 water purification plants' network, the city treats a total of **35 million** cubic meters of water waste annually. Most of this water is treated by the water plant located on Claude-Geffard Street where the **IFCS Maintenance Management software SENERGY** has already been in use for more than 10 years.

SENERGY allows you to plan, keep track and control any maintenance activity of pumping plants and water purification plants.

In 2013, Sherbrooke city decided to put in place a corporative configuration of **SENERGY** in order to centrally keep track of all their stations while maintaining a restrained visibility on information of each site's equipments depending of the users' access.

The implementation of equipments' structures and the maintenance plan for the treatment plant was completed at the end of summer 2013.

The implementation of **SENERGY** in a few steps:

1. Codification of maintenance and location lists
2. Classification of equipments by families, systems and sites
3. Definition of equipments sheets descriptive fields
4. Association between components and main equipments
5. Definition of a maintenance action dictionary
6. Association of maintenance actions with equipments
7. Importation in a beta data base
8. Survey and correction of the beta data base with the client
9. Importation in the production data base
10. Training sessions for users
11. Development of personalized reports



After the implementation of **SENERGY** at the treatment station, Sherbrooke's water maintenance manager, appreciated the new organization of the data and asked IFCS to restructure **SENERGY**'s old data base for the purification plant. The following steps were made:

1. Review and correction of all reference lists
2. New codification and description of equipments locations
3. Complete extraction of the data base into excel
4. Reclassification of equipments by families, systems and locations
5. Association of parts to suppliers and warehouses
6. Importation in a beta data base
7. Survey and correction of the beta data base with the client
8. Importation in the production data base
9. Implementation of access levels for users for a restrained visibility of data by site

Today, **IFCS's software SENERGY** helps the Water Maintenance Department of Sherbrooke to manage preventive and curative maintenance of their 123 sites and 733 equipments such as pumps, decanters, reservoirs, generators, HVAC systems and more.

The impacts following **SENERGY's** implementation are clearly visible:

- Rapid access to equipments detail by location
- Better equipments tracking
- Precise plan of preventive and curative maintenances
- Access to all information on all the city's network
- Increase in the productivity of the maintenance staff
- Decrease in breakdowns

Other economies can be made thanks to the implementation of **SENERGY**:

- A **15% to 35%** reduction on parts replacement costs
- Almost **35%** reduction of your replacements parts inventory
- A **15% to 30%** reduction in service calls

- A **2,5% to 5%** reduction on equipment energy costs
- A **1,5% to 3%** discount on your supplies

These figures are the result of a survey made in Quebec by the Association Paritaire pour la Santé et la Sécurité du Travail (ASPME) and published in a document entitled 'LA GESTION DES ÉQUIPEMENTS, VERS L'ENTRETIEN PRÉVENTIF'



SENERGY continues to develop and adapt as changes and new procedures are put in place in water treatment and purification stations in order to meet Sherbrooke city's future requirements.

Testimony

“Because we are in the process of upgrading and expanding, I am able to create equipments as they enter our plant and even before they are installed. With **SENERGY**, it's easy to do step by step. Progressively, we are building our data base at our own pace while still considering our other projects.”

- Réal Fortin, Mechanical Engineer, Environnement and Water Management Sherbrooke



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