Brézillon
Margny-lès-Compiègne, France

Brézillon   **CR SYSTEM**

Brézillon Headquarters in Margny-lès-Compiègne, France

A Brézillon Building Control Screen Created with GENESIS64™

About Brézillon

Brézillon, an affiliate of Bouygues Bâtiment Ile-de France, is an industrial civil engineering, construction management and rehabilitation company located in Margny-lès-Compiègne, in the Picardy region of France. Founded in 1920 by André Brézillon, it became the first construction company in Picardy in 1945, joining the Bouygues group in 1993 as a general building division.

ICONICS Software Deployed

Brézillon, working with system integrator, CR System of Pointoise, France, and design consultant, BETHIC of Enghien Les Bains, France, selected ICONICS' GENESIS64™ HMI/SCADA suite, including AlarmWorX64™ Multimedia distributed, enterprise-wide alarm notification system and WebHMI™ Web-based, real-time automation. The company also selected ICONICS' ReportWorX™ real-time reporting, charting and analytics software.

Project Summary

Brézillon was tasked with the design and construction of a building compatible with the ideas of the Grenelle de l'environnement, a French consortium of government, labor, industry and other related organizations with the goal of improving ecology, energy, sustainable development and territorial planning. An edict for the building was that it must be built with respect for environmental quality and safety, with the means to monitor and regulate facilities automatically in order to reduce energy costs.

The construction company, working with CR System and BETHIC, had a development time of 14 months, including finalizing electric work and an automated HVAC system. The selected building automation control was meant to tie into multiple procedures and equipment, including:

- Production of calories/kilocalories via two heat pumps (air/water)
- Production of high yield energy recovery (78%) via rotary-equipped CTA turbofan
- Terminal heat treatment via chilled beam induction and motorized air dampers
- Housing of local solar energy controls
- CO_2 presence detection/rate metering and window controls
- Automatic monitoring and regulation
  - More than 2,400 checkpoints (CVCD/CFO/plumbing)
  - Control of energy performance: 102 electrical meters and hydraulic energy

Benefits of the System

ICONICS GENESIS64 was installed to meet several of Brézillon's requirements, including the ability to handle over 4,000 data points (including SAIA controls), integration with BACnet, ModBus and OPC communication infrastructures, and compatibility with Microsoft Windows®. The ICONICS software adheres to the consortium's environmental goals, provides diagnostics and support, and helps maintain comfortable conditions for occupants. Brézillon has found the software to be a user friendly, intuitive, open, scalable and comprehensive building automation management tool.
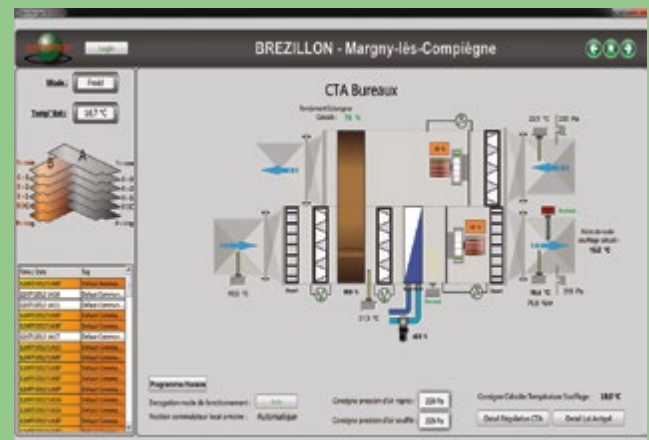
in its integration with other building management system variables. The construction company received a user friendly, intuitive solution with high quality graphic user interface controls. Development with GENESIS64 was considered "strictly tailored to the customer needs".

Conclusion

ICONICS was able to help Brézillon, CR System and BETHIC meet their Grenelle de l'environnement compatibility requirements. Future plans include expansion of the system into energy monitoring and preventive maintenance, with the goal of reducing energy consumption and greenhouse gas emissions.

Building Temperature and CO2 Monitoring

Air Exchange, Blowers, Dew Point Monitoring

The customized graphical development through GENESIS64 allows non-technical users to be able to easily control their workspace environment. A panel-based PC at each office entrance allows occupants to control the temperature. With one click, a user can display current temperatures and can regulate any setpoints. In line with the company's energy awareness initiatives, the system can also show which windows are open to help users decide whether additional air conditioning is needed. In addition, any supervisor-level changes are automatically reflected on the panel PCs.

Brézillon, CR System and BETHIC selected ICONICS for its ability to provide a Thin Client that was flexible

Case Study Details

Brézillon and CR System selected ICONICS software for their Energy Smart Buildings solution due to:

- Ability to Handle a Large Number of Data Points
- Integration with BACnet, Modbus and OPC Communication Infrastructures
- Quick, Intuitive Use by Non-Technical Users
- Integration with Microsoft Technologies
- Scalability for Easy Expansion
- ICONICS' Shared Adherence to Environmental Policies and Goals