



The Emerson Climate Technologies Welkenraedt Energy team

Emerson Climate Technologies Welkenraedt

The first Emerson site to be ISO 50001 certified in Europe for its methodological energy management

Vinçotte has certified Emerson Climate Technologie Welkenraedt for its methodological energy management. It is the first European site in the Emerson group to be granted ISO 50001 certification. And another step forward in the site's energy control efforts.

Emerson Climate Technologies Welkenraedt (ECTW) manufactures compressors for heating, ventilation, air conditioning and industrial refrigeration equipment. In August 2015, this Belgian production site has seen its methodological energy management efforts culminate in ISO 50001 certification. A procedure anticipated to bring numerous benefits, in terms of energy efficiency, standardisation and image.

A long-standing commitment

ECTW's energy management efforts started more than ten years ago. In 2003, the site voluntarily undertook to reduce its CO2 emissions as part of branch agreements between Agoria (the Belgian Federation of technology industry companies) and the Walloon Region. This had to happen in several stages:

- At that time, by doing an initial audit, the site drew up an energy balance and a basic energy efficiency index, in order to be able to measure the impact of its future improvement programs.
- Next, it set up a system for tracking the consumption of its least energy efficient equipment. It set targets and goals, and set up a continuous improvement program for its energy efficiency. The basics for ECTW's energy management were in place.

A certification procedure to go even further

In 2014, the site decided to go even further, by undertaking a certification process – for which the site's manager, Guy Kupper, has already been able to measure positive effects.

« Setting up a certified energy management system based on the ISO 50001 standard has enabled us to standardise our management, permanently include this in a continuous improvement procedure and strengthen teamwork on our site. »

Guy Kupper, Plant Manager - Emerson Climate Technologies Welkenraedt



YOUR REPUTATION IS MINE.

About Emerson Climate Technologies Welkenraedt

- Site creation: 1970
- Activity: production of compressors (Scroll technology) intended for heating, ventilation, air conditioning and industrial refrigeration technological solutions
- Staff: 411 people
- Group: Emerson (115,000 people on 220 sites throughout the world)



« For many years site management has focused on Quality, Safety and Environmental Management systems (QSE) certified ISO 9001-2008, OHSAS18001 (2007) and ISO 14001 (2004) respectively », explains the Plant Manager, Guy Kupper. "As part of this, Vinçotte International has been our key partner for many years. »

Eddy Bauraing, an auditor at Vinçotte, explains the certification's benefits: « Of course a site can manage its energy consumption without being certified! But the certification process leads to having a methodological and systematic procedure. The entire process is analysed to look for the sources of consumption and identify how to do better. Next, the certification guarantees the system's sustainability, since the annual audits enable ensuring that nothing sneaks past or escapes the system. This has a positive effect on a site's brand image within the group and but also in regard to customers and the community. »

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ISO 50001 standard has enabled us to standardise our management, permanently include this in a continuous improvement procedure and strengthen teamwork on our site », confirms the site manager.

A collaboration with high added value

It was a multidisciplinary team, composed of members from the Maintenance, Manufacturing, Finances, Process and Performance departments, that has developed ECTW's energy management system and prepared the certification. The system had to be simple, able to be integrated into the existing QSE Management system, and certifiable within a six month timeframe. The certification audit, conducted by Eddy Bauraing, took place in July (one day of documentary audit) and August 2015 (four days of field audit).

« A site like ECTW, accustomed to certification procedures, fully understood that these audits are opportunities to improve its management systems, and therefore obtain better results », explains

Eddy Bauraing. « First and foremost, we are there to guide the company, identify where improvements can be made and give practical recommendations, suited to the site's requirements. We have been able to identify improvements which have been very well received. At the end of the field audit, certain items for attention mentioned at the beginning of the audit had already been solved. »

Exchange of good practices

In his audit report, the auditor also identifies good practices that could perhaps benefit other similar sites. At ECTW, Eddy Bauraing noted energy meters placed on the least energy efficient equipment and remotely monitored by maintenance staff, or the pilot experiment of a water to water heat pump with 490KW heating power to recover the energy dissipated by test facilities and supply hot water to the main washing processes needed for production. With this investment of more than 800,000 Euros, in the long term the site hopes to replace the electric heating of the degreasing baths and the auxiliary heating systems of some warehouses.

The site obtained its certification at the end of August 2015. It is valid for three years, provided that each annual follow-up audit confirms that the system in place continues to comply with the requirements of the international standard. These follow-up audits will provide the opportunity for further interesting recommendations to help the site refine its energy control yet further.

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About Vinçotte

With our inspection, testing, certification and training services, we offer you all the solutions you need to guarantee safety, quality and sustainability to you and your environment and to make sure that your investments yield. Our 2500 reputable experts work in accordance with best practice and are determined to find the best solution for you, whatever the circumstances. Rest assured. Vinçotte takes care of it.



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