

Eurostia's launch in June 2022 has been shortly followed by some key platform developments aiming towards greater automation, customization, and overall more sustainable management of facilities. This phase of our project focused on user-driven automation, helping organizations get the most out of their natural resources and personnel, while giving digitized agency and engagement to all parties.

The main tasks we focused on were:

Ruling and Alerting creation

This new functionality aims towards greater customizability for precise solutions. It will allow platform users to define rules on their own, and configure rule-triggering criteria plus dynamic follow-up actions (email or SMS notifications etc.). For instance, it is possible to set limits for energy use once it exceeds a given budget, or create alerts once CO2 levels surpass a given threshold.

Users can create as many new and specified rules as they wish, and select a variety of suggested follow-up actions. The great advantage of this editor is that technical knowledge will no longer be necessary. Instead, users gain complete data-driven control of all processes, re-defining rules with confidence. This helps organizations set increasingly advanced KPIs and experience continual improvement across all operations.

Free cooling algorithms

A variety of automation and artificial intelligence tools combine any type of big data for efficient solutions and maximum energy savings. One such tool is the Free Cooling (FC) and Free Heating (FH) Service - an automation scheme applicable to industrial processes or HVAC infrastructures whereby low external air temperature serves towards cooling water for air conditioning, while high external temperatures serve as indoor heating. Namely, when outdoor temperatures are lower relative to indoor temperatures, FC will utilize the cool outdoor air as a cooling source, hence replacing (or assisting) the chiller of the air conditioning system. Similarly, when outdoor temperatures are higher relative to indoor temperatures, FC will utilize the warm outdoor air as a heating source. Indoor conditions are therefore optimized in a dynamic rule-driven manner without spending any energy, all while catering to the comfort of building occupants.

Eurostia's features will continue to develop in alignment with the creation of more human and environment-friendly facilities dynamically adaptable to unique ESG needs in all organizations. Stay tuned for more project news.