



Emission reduction improving office lighting by applying new technologies

Member Company Acerinox S.A.
Category emissions; energy intensity

Challenge

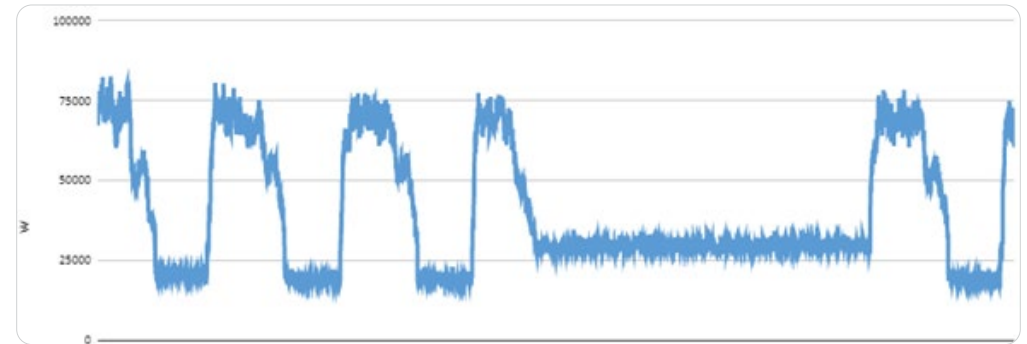
One of the main purposes of the factory is to reduce CO2 emissions. Regarding it, an important tool is the energy saving.

Action

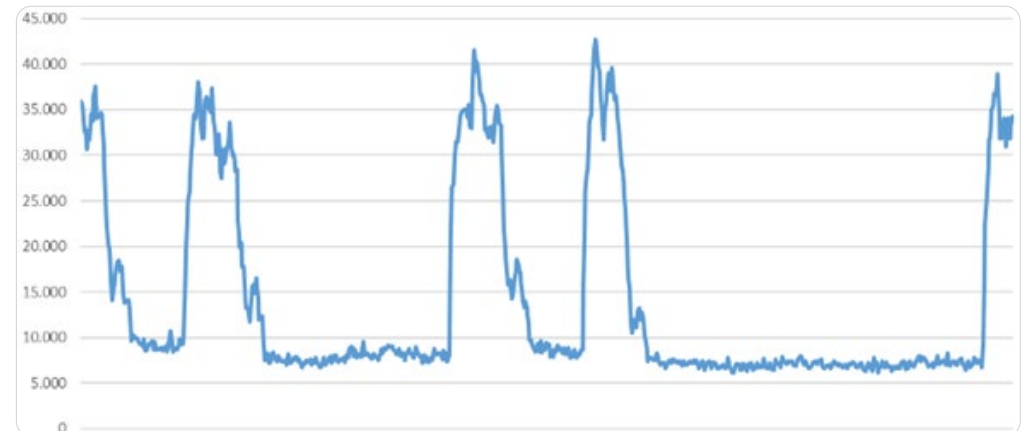
The factory's energy and environmental policies include both direct and indirect emission strategies. In this sense (indirect) a few years ago a campaign to improve energy efficiency in lighting began. We have just finished the "LED Buildings" section with a significant effort of 1288 LEDs for all our non-industrial buildings (there are similar campaigns for industrial buildings and road sections). The installed LED equipment is able to save both by the decrease in power and by its possibilities of regulation (the power can be programmed according to the place of use, and in addition, it can be switched off when there is no presence).

Outcome

We have performed energy measurements before and after installation. The results, which can be seen in the following graphs, have been spectacular. Another important improvement has been the quality of lighting compared to the previous situation (fluorescent tubes). For all these lighting strategies (not only for buildings) making estimates (using the reduction of power and hours of use) we have achieved an annual energy savings of 480180 kWh so far. This action plan is still active today...



BEFORE (Power, Watts, Several days including weekend)



AFTER (Power, Watts, Several days including weekend)