

ООО «Офис Ретейл»

115533, г. Москва, Проспект Андропова, д. 26., тел. (985) 928-82-54
ИНН 3311014354 КПП 772501001 ОГРН 1033303210676

Dear Dr. Satsios,

We have the pleasure to submit you our ascertainments regarding the Power Quality Improvement and Electric Energy Cost Saving Project that was carried out by your company, SEMAN SA, in the electrical installations of our factory in Chekhov – Russia, which manufactures plastic films and other plastic products and is one of the leading distributors in the Russian market for integrated office solutions.

The project concerned the elaboration of a scientific study and according to this, the design, construction and installation of integrating systems, aiming to achieve the following:

1. Reduction of supply currents and considerable saving.
2. Reduction of the requested apparent power.
3. Optimization of power factors with regard to the harmonic content and the reactive content, too.
4. Reduction of current – voltage harmonics, so as not to pollute anymore the electrical installation and the losses caused by them be notably reduced.
5. Improvement of motors' efficiency.
6. Improvement of power transformers' efficiency and reduction of their copper and iron losses.

In the context of the above mentioned project that was completed in May 2011, interventions for the power quality improvement & saving were installed with the total power reaching the 542 kVA. The interventions installed in different panels of the inner electrical grid, even in the departments of the factory where difficult conditions are prevalent.

After the completion of the project, the average reduction of total currents of feeding subpanels of the electric loads at the plant's electrical installation was checked, through measurements taken with and without the power quality improvement & electric energy cost saving systems in operation. The guaranteed saving rate 8%, according to the contract signed between SEMAN SA & OFFICE RETAIL company, not only had been accomplished but exceeded reaching the 10,8%. Therefore, the initial saving target was highly achieved, leading to a shorter pay-back period.

Consequently, we would like to announce you that we consider the Power Quality Improvement and Electric Energy Cost Saving Project absolutely successful, because contributed to significant saving in our electricity bills, increased the reserve of our electrical installation and reduced the maintenance cost.

